

UNION GEODESIQUE ET GEOPHYSIQUE INTERNATIONALE

Bureau Central International de Séismologie

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(B. C. I. S.)

BULLETIN MENSUEL

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Mois de Janvier 1968

I.- 1er Janvier 1968

Haute Silésie (Pologne)

|          |     |          |       |            |
|----------|-----|----------|-------|------------|
| Rybnik   | e   | 00 04 10 | e     | 00 04 24.4 |
| Zabrze   | e   | 24.2     | e     | 27.5       |
| Bytom    | e   | 26.4     | eISg  | 51.2       |
| Krakow   | ePg | 39.5     | e(Sg) | 05 11.5    |
| Niedzica | ePg | 50       | e     | 21         |
| Raciborz | e   | 54       |       |            |

II.- 1er Janvier

Essaim de Matsushiro (Japon)

$36^{\circ}27' N$  ;  $138^{\circ}05' E$  ;  $h = 10^{km}$  ;  $H = 01^{h.00}mm08.7s.$  (JMA)

M. = 3.5(JMA)

|            |    |            |    |            |    |     |
|------------|----|------------|----|------------|----|-----|
| Matsushiro | P  | 01 00 12.4 | S  | 01 00 14.2 | 15 | 0.1 |
| Nagano     | 1P | 14.6       | S  | 17.5       | 25 | 0.2 |
| Matsumoto  | 1P | 14.7       | 1S | 18.3       | 25 | 0.2 |
| Kamizawa   | 1P | 18         | 1S | 23.4       | 44 | 0.4 |
| Takada     | eP | 23.7       |    |            | 74 | 0.7 |

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III.- 1er Janvier

Ilot Mathew

Vers 22° 1/2 S ; 171° 1/4 E ; H = 02h. 12mn 13s. (Nouméa)

M. = 3.7 (Nouméa)

|           |       |          |    |          |
|-----------|-------|----------|----|----------|
| Ouanaham  | e1P   | 02 13 14 | 1S | 02 14 01 |
| Nouméa    | 1P    | 20.3C    | 1S | 17.5     |
| Port Vila | e1(P) | 32       |    |          |
| Koumac    | e1P   | 54.4     | 1S | 15 11.5  |

IV.- 1er Janvier

Sud du Panama

2° 3' N ; 79° 7' W ; h = 40km ; H = 02h. 41mn 25. 1s. (CGS)

M. = 4.8 (La Palma); 4.7 (La Paz - Wichita M. - College); 4.6 (Bozeman SSS);  
4.5 (Caracas); 4.4 (CGS - Blue M.); 4.3 (Penas); 4.2 (Digway);  
3.8 (Tonto Forest - Golden).

|                 |      |          |      |          |      |      |
|-----------------|------|----------|------|----------|------|------|
| Quito           | P    | 02 42 06 | S    | 02 42 52 | 300  | 2.7  |
| Caracas         | eP   | 44 55.5  | e    | 48 04    | 1665 | 15.0 |
| Huancayo        | eP   | 57       |      |          | 1655 | 14.9 |
| La Palma        | 1P   | 59.5C    |      |          | 1690 | 15.2 |
| Trinidad        | P    | 45 58    |      |          | 2210 | 19.9 |
| Arequipa        | e1P  | 48 03.7  |      |          | 2255 | 20.3 |
| Presa Benito J. | 1P   | 06.3     |      |          |      |      |
| Penas           | 1P   | 15       | eS   | 50 18    | 2390 | 21.5 |
| La Paz          | P    | 16.6     |      |          |      |      |
| Vista Hermosa   | 1P   | 23.5     |      |          |      |      |
| Cumberland Pl.  | e    | 48 04.2  |      |          | 3735 | 33.6 |
| Wichita M.      | eP   | 30       | eS   | 54 25    | 5090 | 36.8 |
| Albuquerque     | 1P   | 49 07D   |      |          | 4545 | 40.9 |
| Tucson          | eP   | 11.2     |      |          | 4645 | 41.8 |
| Tonto Forest    | 1P   | 26.1     | ePcP | 51 14.3  | 4820 | 43.4 |
| Brébeuf         | 1P   | 26.8C    |      |          | 4810 | 43.3 |
| Golden          | eP   | 31       |      |          | 4880 | 43.9 |
| Pasadena        | e(P) | 48       |      |          | 5320 | 47.9 |
| Uinta Basin     | eP   | 51.6     | ePcP | 24.7     |      |      |
| Flaming Gorge   | eP   | 54       | esp  | 50 01    | 5210 | 46.9 |
| Dugway          | eP   | 50 04.3  |      |          | 5355 | 48.2 |
| Bozeman SSS     | eP   | 28.3     |      |          | 5710 | 51.4 |
| Butte           | eP   | 33.1     |      |          | 5800 | 52.2 |
| Oroville        | 1P   | 41.2     |      |          | 5900 | 53.1 |
| Blue M.         | eP   | 43.6     |      |          | 5960 | 53.8 |
| Hungry Horse    | eP   | 51.5     |      |          | 6065 | 54.6 |
| Newport         | eP   | 51 01    |      |          | 6220 | 56.0 |
| Nordman         | eP   | 02       |      |          | 6235 | 56.1 |
| Edmonton        | eP   | 14       |      |          | 6435 | 57.9 |
| Mould Bay       | eP   | 53 15.3D |      |          | 8565 | 77.1 |

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|                 |    |            |  |       |      |
|-----------------|----|------------|--|-------|------|
| Black Rapids    | eP | 02 53 18.7 |  | 8610  | 77.5 |
| Mts Sheep Creek | eP | 19.2       |  | 8620  | 77.6 |
| College         | eP | 25         |  | 8755  | 78.8 |
| South Pole      | eP | 54 32.1    |  | 10255 | 92.3 |

V.- 1er Janvier

Région de la Nouvelle Bretagne

H = 03h.21<sup>mm</sup>00s. (Rabaul)

M. = 4.2 (Rabaul)

|                |    |                   |    |            |  |
|----------------|----|-------------------|----|------------|--|
| Wanliss Street | 1P | 03 21 33.4        |    |            |  |
| Keravat        | 1P | 33.5 <sup>D</sup> |    |            |  |
| Rabalanakaia   | 1P | 33.5 <sup>D</sup> |    |            |  |
| Rabaul         | 1P | 33.6              | 1S | 03 21 58.5 |  |
| Port Moresby   | eP | 22 48             | eS | 24 04      |  |

VI.- 1er Janvier

Nouvelles Hébrides (Région Ile Vaté - Ile Espiritu Santo)

H = 03h.26<sup>mn</sup>57s. (Nouméa)

|            |     |                         |    |          |  |
|------------|-----|-------------------------|----|----------|--|
| Port Vila  | 1P  | 03 27 16.8 <sup>D</sup> | 1S | 03 27 31 |  |
| Lonorore   | e1P | 20.3                    | 1S | 37.5     |  |
| Luganville | 1P  | 21.5 <sup>C</sup>       | 1S | 40       |  |

VII.- 1 er Janvier

Est de l'Océan Pacifique Central

2°8 N ; 101°1 W ; h = 33<sup>km</sup> ; H = 04h.03<sup>mn</sup>31.4s. (CGS)

M. = 5.2 (Cumberland Pl.); 5.0 (La Paz); 4.7 (Wichita M.); 4.5 (CGS - Dugway - La Palma); 4.3 (Tonto Forest); 4.2 (Albuquerque - Golden - Blue M.).

|                   |    |            |    |          |      |
|-------------------|----|------------|----|----------|------|
| Presa Benito J.   | 1P | 04 07 04.3 |    |          |      |
| Vista Hermosa     | 1P | 08.5       |    | 1655     | 14.9 |
| Presa Infernillo  | eP | 10         |    |          |      |
| La Palma          | eP | 28         |    | 1820     | 16.4 |
| Nat. Univ. Mexico | 1P | 28         | e  | 04 11 08 |      |
| Tacubaya          | 1P | 30         |    |          |      |
| Quito             | eP | 08 38      | eS | 12 48    |      |
| Tucson            | eP | 09 45.1    |    | 3410     | 30.7 |
| Wichita M.        | eP | 55.7       | eS | 3535     | 31.8 |
| Albuquerque       | eP | 10 00.5    | e  | 3600     | 32.4 |
| Tonto Forest      | eP | 03.8       |    | 3635     | 32.7 |
| Goldstone         | P  | 27         | i  | 3945     | 35.5 |
| Cumberland Pl.    | eP | 29.8       |    | 3965     | 35.7 |
| Golden            | eP | 40.2       | eL | 4100     | 36.9 |
| Penas             | eP | 44         |    | 4155     | 37.4 |
| La Paz            | P  | 47         |    | 4200     | 37.8 |
| Uinta Basin       | eP | 50.2       | eS | 16 52    |      |

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|              |     |            |   |            |       |       |
|--------------|-----|------------|---|------------|-------|-------|
| Dugway       | eP  | 04 10 55.2 |   |            | 4300  | 38.7  |
| San Luis Dam | eP  | 55.7       |   |            | 4310  | 38.8  |
| Jamestown    | eP  | 11 01.4    |   |            |       |       |
| Oroville     | eP  | 14.1       |   |            | 4555  | 41.0  |
| Mineral      | eP  | 22.6C      |   |            |       |       |
| Bozeman SSS  | eP  | 34.4       |   |            | 4845  | 43.6  |
| Butte        | eP  | 38.4       |   |            | 4910  | 44.2  |
| Blue M.      | eP  | 40.5       | e | 04 13 26.9 | 4910  | 44.2  |
| Hungry Horse | eP  | 58.9       |   |            | 5190  | 46.7  |
| Newport      | eP  | 12 03      |   |            | 5255  | 47.3  |
| Ottawa       | eP  | 09         |   |            | 5320  | 47.9  |
| Edmonton     | eP  | 33         |   |            | 5700  | 51.3  |
| Resolute     | eP  | 14 52      |   |            | 7990  | 71.9  |
| Mould Bay    | eP  | 15 05.3C   |   |            | 8235  | 74.1  |
| South Pole   | eP  | 16 42.6    |   |            | 10310 | 92.8  |
| Quetta       | PKP | 23 07.8    |   |            | 16145 | 145.3 |

inscrit à Caracas.

VIII.- 1er Janvier

Alaska Central

62°4 N ; 149°6 W ; h = 33km ; H = 04h.12<sup>mn</sup>48<sup>s</sup>. (CGS)

|                 |    |            |    |            |     |     |
|-----------------|----|------------|----|------------|-----|-----|
| Palmer          | IP | 04 13 04.2 | IS | 04 13 16.4 | 100 | 0.9 |
| Mts Sheep Creek | IP | 08.6       |    |            | 135 | 1.2 |
| Black Rapids    | IP | 22         |    |            | 220 | 2.0 |
| College         | eP | 29         | eL | 59.5       | 290 | 2.6 |
| Gilmore Creek   | eP | 29         |    |            | 300 | 2.7 |
| Pedro Dome      | IP | 31.8       |    |            | 310 | 2.8 |
| Sparrevohn      | IP | 37.5       |    |            | 355 | 3.2 |

IX.- 1er Janvier

Alaska Central

62°2 N ; 149°5 W ; h = 33km ; H = 06h.10<sup>mn</sup>53<sup>s</sup>. (CGS)

|                 |    |            |    |            |     |     |
|-----------------|----|------------|----|------------|-----|-----|
| Palmer          | IP | 06 11 06.6 | IS | 06 11 16.1 | 80  | 0.7 |
| Mts Sheep Creek | IP | 12         |    |            | 120 | 1.1 |
| Black Rapids    | IP | 28.4       |    |            | 235 | 2.1 |
| College         | eP | 36.5       | eL | 12 08      | 310 | 2.8 |
| Gilmore Creek   | eP | 38.3       |    |            | 320 | 2.9 |
| Pedro Dome      | IP | 39.2       |    |            | 335 | 3.0 |
| Penas           | eP | 24 34.6    |    |            |     |     |
| La Paz          | P  | 38         |    |            |     |     |

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X.- 1er Janvier

Pérou

11°2 S ; 76°0 W ; h = 132km ; H = 08h.16<sup>mn</sup>15.3<sup>s</sup>. (CGS)

M. = 4.6 (Cumberland Pl. - Wichita M.) ; 4.5 (Albuquerque - Uinta Basin) ;  
4.4 (CGS - La Paz - Digway) ; 4.3 (Tonto Forest) ; 4.2 (Penas) ;  
3.8 (Blue M.).

|                |     |                    |      |          |       |      |
|----------------|-----|--------------------|------|----------|-------|------|
| Nana           | 1P  | 08 16 40           | 1S   | 08 17 02 | 135   | 1°2  |
| Huancayo       | 1P  | 40.6               | 1S   | 04       | 119   | 1°0  |
| Arequipa       | e1P | 17 54              |      |          | 755   | 6°8  |
| Penas          | P   | 18 21.8            | e1   | 20 12    | 980   | 8°8  |
| La Paz         | P   | 27.3               | e    | 18 32    | 1035  | 9°3  |
| Quito          | eP  | 53                 |      |          | 1245  | 11°2 |
| Cumberland Pl. | eP  | 24 36.9            |      |          | 5265  | 47°4 |
| Wichita M.     | eP  | 25 01.1            | ePcP | 26 17.4  | 5610  | 50°5 |
| Albuquerque    | eP  | 30                 |      |          | 6020  | 54°2 |
| Tucson         | eP  | 32                 |      |          | 6065  | 54°6 |
| Tonto Forest   | eP  | 45.5               | ePcP | 28.1     | 6255  | 56°3 |
| Uinta Basin    | eP  | 26 10              | e    | 26 28    | 6665  | 60°0 |
| Flaming Gorge  | eP  | 12.5               |      |          | 6710  | 60°4 |
| Goldstone      | P   | 13                 |      |          | 6700  | 60°3 |
| Digway         | eP  | 20.6               |      |          | 6835  | 61°5 |
| Blue M.        | eP  | 56.8               |      |          | 7465  | 67°2 |
| Edmonton       | 1P  | 27 24 <sup>D</sup> |      |          | 7965  | 71°7 |
| Mould Bay      | eP  | 29 06              |      |          | 10110 | 91°0 |

XI.- 1er Janvier

Nouvelles Hébrides (Ile Espiritu Santo)

16°4 S ; 167°7 E ; H = 08h.47<sup>mn</sup>38<sup>s</sup>. (Nouméa) ; M. = 4.0 (Nouméa)

|            |     |                      |    |            |  |  |
|------------|-----|----------------------|----|------------|--|--|
| Lonorore   | 1P  | 08 47 52             | 1S | 08 48 02.5 |  |  |
| Luganville | 1P  | 55.3 <sup>D</sup>    | 1S | 08         |  |  |
| Port Vila  | e1P | 48 04.2              | 1S | 25.5       |  |  |
| Koumac     | 1P  | 57.6                 | 1S | 49 57.5    |  |  |
| Nouméa     | 1P  | 49 06.2 <sup>D</sup> | 1S | 50 12      |  |  |

XII.- 1er Janvier

Nevada

38°5 N ; 117°9 W ; h = 33km ; H = 09h.28<sup>mn</sup>02.1<sup>s</sup>. (CGS)

|            |      |            |    |            |     |     |
|------------|------|------------|----|------------|-----|-----|
| Tonopah    | 1P   | 09 28 16.4 |    |            | 80  | 0°7 |
| Tinemaha   | 1P   | 23.6       | 1S | 09 28 34.9 | 165 | 1°5 |
| Cottonwood | 1P   | 34.3       |    |            | 235 | 2°1 |
| Jamestown  | eP   | 34.6       |    |            | 235 | 2°1 |
| Eureka     | eP   | 42.5       | eL | 29 21.5    | 200 | 1°8 |
| China Lake | 1P   | 44.1       | 1  | 28 48      | 300 | 2°7 |
| Unionville | e(P) | 46.1       |    |            | 210 | 1°9 |

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|              |      |            |    |          |     |     |
|--------------|------|------------|----|----------|-----|-----|
| Isabella     | iP   | 09 28 48.2 | iS | 09 29 19 | 320 | 2.9 |
| San Luis Dam | eP   | 49.7       | iL | 21.2     | 335 | 3.0 |
| Mt. Hamilton | eP   | 52.1       |    |          | 355 | 3.2 |
| Priest       | eP   | 52.2       |    |          | 355 | 3.2 |
| Goldstone    | iP   | 54.1       | iS | 41.7     | 365 | 3.3 |
| Oroville     | iP   | 58.2       |    |          | 335 | 3.0 |
| Berkeley     | eP   | 00.0       |    |          | 390 | 3.5 |
| Mineral      | eP   | 05.7       |    |          | 380 | 3.4 |
| Boulder City | eP   | 10.5       | eL | 55       | 390 | 3.5 |
| Dugway       | e(P) | 37.9       | eL | 30 37.4  | 480 | 4.3 |
| Blue M.      | eP   | 30 18.1    |    |          | 710 | 6.4 |

XIII.- 1er Janvier

Nouvelles Hébrides (Ile Espiritu Santo)  
H = 10h.09<sup>mn</sup>11s. (Nouméa)

|            |    |             |    |          |
|------------|----|-------------|----|----------|
| Luganville | iP | 10 09 29.6D | iS | 10 09 44 |
| Lonorore   | iP | 33.3D       | iS | 49       |

XIV.- 1er Janvier

Région de la Nouvelle Bretagne  
H = 10h.23<sup>mn</sup>54s.; M. = 4.6 (Rabaul)

|              |    |            |    |            |
|--------------|----|------------|----|------------|
| Keravat      | iP | 10 24 35.5 | iS | 10 25 09.5 |
| Rabaul       | iP | 36         | iS | 08         |
| Port Moresby | eP | 25(54)     |    |            |

XV.- 1er Janvier

Région de la Nouvelle Bretagne  
H = 10h.34<sup>mn</sup>42s. (Rabaul)

M. = 3.5 (Rabaul)

|                |    |            |    |            |
|----------------|----|------------|----|------------|
| Keravat        | iP | 10 34 50.5 | iS | 10 35 08.5 |
| Rabaul         | iP | 54         | iS | 03.4       |
| Rabalanakaia   | iP | 35 53.5    |    |            |
| Wanliss Street | iP | 53.8       |    |            |

XVI.- 1er Janvier

Nouvelles Hébrides (Ile Espiritu Santo)

16°4 S ; 167°8 E ; H = 10h.55<sup>mn</sup>53s.; M. = 4.1 (Nouméa)

|            |     |             |    |            |
|------------|-----|-------------|----|------------|
| Lonorore   | iP  | 10 56 10.1D | iS | 10 56 17.5 |
| Luganville | iP  | 14.2C       | iS | 30.5       |
| Port Vila  | eIP | 17.8        | iS | 38         |
| Koumac     | iP  | 57 11.3D    | iS | 58 10      |
| Nouméa     | iP  | 20.4C       | iS | 27         |

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XVII.- 1er Janvier

Ile de Crète

35° 1 N ; 25° 8 E ; H = 12<sup>h</sup>. 13<sup>mm</sup> 17<sup>s</sup>. (BCIS)  
 35° 5 N ; 25° 7 E ; H = 12<sup>h</sup>. 13<sup>mm</sup> 16<sup>s</sup>. (Athènes)

Ressenti principalement à Lasithi ; (IV à Kato - Chorio ; II - III à Phourni)

M. = 3.9 (Athènes)

|             |     |            |      |            |      |      |
|-------------|-----|------------|------|------------|------|------|
| Rhodes      | ePn | 12 13 52.8 | eISn | 12 14 19.7 | 265  | 2.4  |
| Athènes     | ePn | 14 05.9    |      |            | 370  | 3.3  |
| Paraskevi   | ePn | 18.1       |      |            | 465  | 4.2  |
| Valsamata   | ePn | 32.4       |      |            | 580  | 5.2  |
| Helwan      | ePn | 57         |      |            | 775  | 7.0  |
| Jérusalem   | ePn | 15 16      | eS   | 16 51      | 945  | 8.5  |
| Téhéran     | eP  | 17 58      |      |            | 2320 | 20.8 |
| Tamanrasset | eP  | 18 05      |      |            | 2390 | 21.5 |

inscrit à Istanbul UTI - Ksara

XVIII.- 1er Janvier

Nouvelles Hébrides (Ile Banks)  
 H = 12<sup>h</sup>. 23<sup>mm</sup> 20<sup>s</sup>. (Nouméa)

M. = 4.1 (Nouméa)

|            |     |                         |    |            |
|------------|-----|-------------------------|----|------------|
| Luganville | iP  | 12 23 52.1 <sup>D</sup> | iS | 12 24 15.5 |
| Lonorore   | eIP | 24 02.6                 | iS | 38         |
| Nouméa     | eIP | 25 32                   | iS | 27 12      |

XIX.- 1er Janvier

Détroit de Zanzibar

6° 3 S ; 39° 1 E ; H = 13<sup>h</sup>. 44<sup>mm</sup> 26<sup>s</sup>. ; M. = 3.9 (Bulawayo)

|             |     |            |     |          |
|-------------|-----|------------|-----|----------|
| Nairobi     | iP  | 13 46 01.5 | iS  | 13 47 20 |
| Butare      | ePn | 47 02      | iSn | 48 38    |
| Broken Hill | iP  | 34         | eS  | 49 51    |
| Karoi       | iP  | 43         | iS  | 50 03    |
| Bulawayo    | eP  | 48 23      | eS  | 51 17    |

XX.- 1er Janvier

Golfe de Californie

31° 1 N ; 114° 3 W ; h = 33<sup>km</sup> ; H = 15<sup>h</sup>. 03<sup>mm</sup> 25<sup>s</sup>. (CGS)

M. = 4.1 (CGS - Wichita M.)

|        |   |            |     |     |
|--------|---|------------|-----|-----|
| Glamis | P | 15 03 56.2 | 210 | 1.9 |
|--------|---|------------|-----|-----|

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|                |      |            |     |            |      |      |
|----------------|------|------------|-----|------------|------|------|
| Barrett        | 1P   | 15 04 04.7 |     |            | 280  | 2.5  |
| Palomar        | 1P   | 04.7       |     |            | 280  | 2.5  |
| Mummy Mountain | P    | 12.6       | 1S  | 15 05 01.1 | 345  | 3.1  |
| Tucson         | ePn  | 16         | eL  | 10         | 355  | 3.2  |
| Tonto Forest   | ePn  | 28.4       | eLG | 31.4       | 455  | 4.1  |
| Boulder City   | eP   | 36.5       |     |            | 535  | 4.8  |
| Glen Canyon    | eP   | 59         | ePg | 30.8       | 690  | 6.2  |
| Albuquerque    | eP   | 05 12      | eL  | 07 42.4    | 845  | 7.6  |
| Eureka         | eP   | 29.5       |     |            | 835  | 8.4  |
| Dugway         | eP   | 45.8       | eL  | 08 12.8    | 1010 | 9.1  |
| Uinta Basin    | eP   | 54.8       |     |            |      |      |
| Wichita M.     | eP   | 06 39      |     |            | 1520 | 13.7 |
| Blue M.        | e(P) | 53.2       |     |            | 1545 | 13.9 |

XXI. 1er Janvier

Région de la Nouvelle Bretagne

H = 15h23m22s (Rabaul)

M = 4.1 (Rabaul)

|              |    |          |    |            |  |  |
|--------------|----|----------|----|------------|--|--|
| Keravat      | 1P | 15 22 58 | 1S | 15 23 28.5 |  |  |
| Rabaul       | eP | 58.5     | 1S | 28.5       |  |  |
| Port Moresby | eP | 24 22    | eS | 25(52)     |  |  |

XXII. 1er Janvier

Région de la Nouvelle Bretagne

H = 16h22m37s (Rabaul)

M = 4.7 (Rabaul)

|              |    |          |    |          |     |     |
|--------------|----|----------|----|----------|-----|-----|
| Rabaul       | 1P | 16 23 16 | 1S | 16 23 49 | 280 | 2.5 |
| Rabalanakaia | eP | 16.5D    |    |          |     |     |
| Keravat      | 1P | 16.5D    | 1S | 53       | 330 | 3.0 |
| Port Moresby | eP | 24 35    | eS | 26 08    |     |     |

XXIII. 1er Janvier

Région frontière Chili - Bolivie

21°8S, 67°5W.

h = 189km.

H = 17h33m47s (CGS)

M = 5.2 (La Paz), 4.3 (CGS), 3.6 (Tonto Forest)

|               |      |             |    |          |      |      |
|---------------|------|-------------|----|----------|------|------|
| Antofagasta   | 1P   | 17 34 36.2C | 1S | 17 35 13 |      |      |
| La Paz        | 1P   | 35 06.8D    | S  | 36 07.7  | 590  | 5.3  |
| Penas         | 1P   | 10.3D       | .S | 13       | 620  | 5.6  |
| Arequipa      | 1P   | 17.4        | 1S | 27.2     | 720  | 6.5  |
| Huancayo      | eP   | 36 35.5     |    |          | 1365 | 12.3 |
| Cumberland Pl | eP   | 43 31.8     |    |          | 6620 | 59.6 |
| Wichita M.    | e(P) | 44 17.3     |    |          | 7055 | 63.5 |
| Lamto         | P    | 22.2        |    |          | 7465 | 67.2 |
| South Pole    | eP   | 2 3.5       |    |          | 75 0 | 68.3 |
| Tonto Forest  | eP   | 36.5        |    |          | 7735 | 69.6 |
| Uinta Basin   | eP   | 5.97        |    |          |      |      |
| Dugway        | eP   | 45 07.7     |    |          | 8310 | 74.8 |
| Blue M.       | eP   | 40.2        |    |          | 8935 | 80.4 |



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Mer Méditerranée

35°7N, 20°7E

H = 18h 28<sup>mn</sup> 39<sup>s</sup> (Athènes)

M = 4.1 (Athènes)

|             |     |            |       |            |      |      |
|-------------|-----|------------|-------|------------|------|------|
| Valsamata   | ePn | 18 27 21.3 | ei Sn | 18 27 52.3 | 275  | 2.5  |
| Athènes     | ePn | 33         |       |            | 370  | 3.3  |
| Paraskevi   | eP  | 28 20      |       |            | 640  | 5.7  |
| Uppsala     | iP  | 31 59.7    |       |            | 2695 | 24.3 |
| Nurmijaervi | iP  | 32 06      |       |            | 2775 | 25.0 |
| Uddeholm    | eP  | 07         |       |            | 2760 | 24.8 |
| Chiraz      | eP  | 36         |       |            | 3065 | 27.6 |

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Province de Santiago del Estero (Argentine)

27°1S, 62°8W. h = 641km H = 19h 07<sup>mn</sup> 23<sup>s</sup> (CGS)

M = 4.5 (Cumberland Pl), 3.9 (CGS, Wichita M), 3.4 (Tonto Forest)

|               |    |         |    |            |      |      |
|---------------|----|---------|----|------------|------|------|
| Antofagasta   | eP | 19 0 11 | eS | 19 10 44.8 |      |      |
| La Paz        | eP | 5 8     | eS | 12 04.5    | 1290 | 11.6 |
| Penas         | eP | 10 00.4 | eS | 11.2       | 1335 | 12.0 |
| Lamto         | P  | 17 03.3 |    |            | 7210 | 64.9 |
| Cumberland Pl | eP | 08.8    |    |            | 7335 | 66.0 |
| Wichita M.    | eP | 33.4    |    |            | 7800 | 70.2 |
| Tonto Forest  | eP | 18 10   |    |            | 8490 | 76.4 |
| Bulawayo      | eP | 40      |    |            | 9145 | 82.3 |
| Karof         | eP | 51      |    |            | 9400 | 84.6 |
| Broken Hill   | eP | 53      |    |            | 9410 | 84.7 |

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Prés de la côte, au Nord du Chili

27°5S, 71°7W. h = 33km H = 20h 18<sup>mn</sup> 47.7s (CGS)

M = 5.7 (South Pole), 5.4 (Penas), 4.7 (CGS), 4.5 (Cumberland Pl, Wichita M, Eureka), 4.4 (Digway), 4.2 (Blue M), 4.1 (Tonto Forest).

|               |    |            |      |            |      |      |
|---------------|----|------------|------|------------|------|------|
| Copiapó       | eP | 20 19 11.3 | eS   | 20 19 29.6 | 105  | 0.9  |
| Antofagasta   | iP | 46.7D      | e(S) | 20 0 9.7   | 440  | 4.0  |
| Peldehue      | eP | 20 0 9     | eS   | 21 10.5    | 630  | 5.7  |
| Arequipa      | iP | 21 23.2    |      |            | 1210 | 10.9 |
| La Paz        | eP | 31.5       |      |            | 1285 | 11.4 |
| Penas         | iP | 33.7       |      |            | 1280 | 11.5 |
| Huancayo      | eP | 22 41      |      |            | 1745 | 15.7 |
| South Pole    | iP | 29 09.7    |      |            | 6 85 | 62.7 |
| Cumberland Pl | eP | 20         |      |            | 7120 | 64.1 |
| Wichita M.    | eP | 37.3       | ePcP | 30 13.7    | 7435 | 66.9 |
| Lubbock       | eP | 40.5       | e    | 29 47      | 7455 | 67.1 |
| Albuquerque   | eP | 30 00      |      |            | 7800 | 70.2 |
| Tonto Forest  | eP | 10.4       | e    | 28.7       | 7990 | 71.9 |
| Lamto         | P  | 14.5       |      |            | 8055 | 72.5 |
| Golden        | eP | 21.2       |      |            | 8200 | 73.8 |
| Ynta Basin    | eP | 34.3       | e    | 40.9       | 8455 | 76.1 |
| Isabella      | P  | 37         | i    | 30 44      | 8520 | 76.7 |
| Dugway        | eP | 41.2       |      |            | 8600 | 77.4 |
| Eureka        | eP | 47.3       |      |            | 8700 | 78.3 |

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|                |     |            |  |       |       |
|----------------|-----|------------|--|-------|-------|
| Sa da Bandeira | IP  | 20 30 52.1 |  | 8800  | 7 42  |
| Bozeman SSS    | eP  | 31 02      |  | 9035  | 81.3  |
| Oroville       | eP  | 02.5       |  | 9020  | 81.2  |
| Butte          | eP  | 06.4       |  | 9110  | 82.0  |
| Blue M.        | eP  | 12         |  | 9235  | 83.1  |
| Edmonton       | eP  | 35         |  | 9790  | 88.1  |
| Changalane     | eP  | 43         |  | 9935  | 89.4  |
| Bilawayo       | IP  | 44C        |  | 9950  | 89.6  |
| Broken Hill    | eP  | 58         |  | 10240 | 92.2  |
| Karoi          | IP  | 56C        |  | 10220 | 92.0  |
| Chiraz         | PKP | 37 58.9    |  | 14635 | 131.7 |
| Quetta         | PKP | 38 19.6    |  | 15980 | 143.8 |

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Région de la Nouvelle Bretagne

M = 6.0 (Rabaul) H = 21h29mn58s (Rabaul)

|              |      |          |      |          |     |     |
|--------------|------|----------|------|----------|-----|-----|
| Rabaul       | eP   | 21 31 48 | e(S) | 21 33 13 | 855 | 7.5 |
| Keravat      | e(P) | 52.5D    | IS   | 0 9 5    | 755 | 6.8 |
| Port Moresby | IP   | 34 50.1  | eS   | 36 21    |     |     |

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Mer de Banda

6°5S, 128°8E h = 200km H = 22h33mn28.4S (CGS)

M = 4.4 (CGS, Mt Tsukuba)

|                 |      |          |     |          |      |      |
|-----------------|------|----------|-----|----------|------|------|
| Darwin          | eP   | 22 33 59 | eS  | 22 35 02 | 600  | 6.2  |
| Wararamunga     | eP   | 35 42.5  | eS  | 38 14.5  |      |      |
| Port Moresby    | eP   | 36 33    |     |          | 2045 | 18.4 |
| Charters Towers | IP   | 37 04C   | ese | 40 50    | 2410 | 21.7 |
| Mundaring       | IP   | 38 02.5  |     |          | 3110 | 28.0 |
| Adelaide        | eP   | 19       |     |          | 3310 | 29.8 |
| Brisbane        | IP   | 26       | e   | 39 0 9   | 3420 | 30.8 |
| Toolangi        | eP   | 53       |     |          | 3835 | 34.5 |
| Canberra        | IP   | 58. D    |     |          |      |      |
| Kiyosumi        | eP   | 40 08.2  |     |          | 4755 | 42.8 |
| Dodaira         | eP   | 11.3     |     |          | 4810 | 43.3 |
| Mt Tsukuba      | eP   | 14.9     |     |          | 4855 | 43.7 |
| Quetta          | IP   | 43 1 2D  |     |          | 7720 | 69.5 |
| South Pole      | e(P) | 44 34.8  |     |          |      |      |

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Nouvelles Hébrides

17°8S, 167°7E h = 33km H = 23h13mn20.6S (CGS)

17° 8, 168° 3E h = 50km H = 23h13mn20S (Nouméa)

M = 3.9 (Nouméa)

|            |    |           |    |            |     |     |
|------------|----|-----------|----|------------|-----|-----|
| Port Vila  | IP | 23 13 33C | IS | 23 13 43.5 | 65  | 0.6 |
| Lonorore   | eP | 52.5      | IS | 14 15      | 220 | 2.0 |
| Luganville | IP | 56.9      | IS | 30         | 255 | 2.3 |
| Quanaham   | IP | 14 05.4   | IS | 3 4.5      | 335 | 3.0 |
| Koumac     | IP | 30.8D     | IS | 15 24.5    | 465 | 4.2 |
| Nouméa     | IP | 31.9D     | IS | 28         | 510 | 4.6 |

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Canberra eP 23 18 47 eS 23 22 53

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Région de la Nouvelle Irlande

5° 18', 153° 4'E

h = 55km

H = 00h 21mn 10.8s (CGS)

5° 28', 153° 3'E

H = 00h 21mn 09s (URSS)

H = 00h 21mn 10s (Rabaul)

M = 6.1 (Quetta, Lembang), 6.0 (Shiraki), 5.8 (Roma), 5.7 (Adelaide, Uppsala, Kiruna), 5.7 - 6.0 (Berkeley), 5.6 (Rabaul), 5 1/2 - 5 3/4 (Golden), 5.5 (CGS, URSS, College), 5.3 (Mt Tsukuba), 5.1 (Palmer), 4.9 (Blue M), 4.6 (Uinta Basin), 4.5 (Tonto Forest).

|                 |    |            |      |          |      |      |
|-----------------|----|------------|------|----------|------|------|
| Rabalanakafa    | 1P | 00 21 37.0 |      |          | 165  | 1.5  |
| Wanliss Street  | 1P | 37.5       |      |          | 170  | 1.5  |
| Sulphur Creek   | 1P | 37.5       |      |          | 165  | 1.5  |
| Keravat         | 1P | 38         |      |          | 175  | 1.6  |
| Rabaul          | 1P | 38         | eP   | 00 21 59 | 170  | 1.5  |
| Lae             | eP | 22 47.5    |      |          | 730  | 6.6  |
| Port Moresby    | 1P | 58.4       | eS   | 24 12    | 830  | 7.6  |
| Honiara         | eP | 23 04.0    | 1S   | 00       | 870  | 7.8  |
| Goroka          | eP | 09         |      |          | 890  | 8.0  |
| Charters Towers | 1P | 24 59      | 1S   | 28 04    | 1820 | 16.4 |
| Luganville      | 1P | 25 06.8(C) |      |          | 1890 | 17.0 |
| Lonorore        | 1P | 20.8C      |      |          | 2000 | 18.0 |
| Koumac          | 1P | 26.1       | 1S   | 58.5     | 2075 | 18.7 |
| Port Vila       | 1P | 32.9C      |      |          | 2140 | 19.2 |
| Ouanaham        | 1P | 44.4C      | 1    | 26 18.5  | 2285 | 20.6 |
| Guam            | eP | 46.0       | eS   | 29 36.0  | 2270 | 20.4 |
| Nouméa          | 1P | 53.7       | 1S   | 49       | 2360 | 21.3 |
| Brisbane        | 1P | 26 02.4    | eS   | 30 00.5  | 2455 | 22.1 |
| Warramunga      | eP | 17.5       | e    | 00       | 2630 | 23.7 |
| Davao           | 1P | 27 16.0    |      |          | 3370 | 30.3 |
| Canberra        | 1P | 18.9D      | 1S   | 32 09    | 3370 | 30.3 |
| Adélaïde        | 1P | 38.5D      |      |          | 3620 | 32.6 |
| Toolangi        | eP | 43.0       | eS   | 56.0     | 3680 | 33.1 |
| Afiamalu        | eP | 28 10      | eS   | 33 32    | 3930 | 35.4 |
| Onerahi         | eP | 13         |      |          | 4015 | 36.1 |
| Meekathara      | 1P | 35.7D      |      |          |      |      |
| Kalgoorlie      | 1P | 36.1       |      |          | 4380 | 39.4 |
| Karapiro        | 1P | 36.6       | S    | 34 29    | 4265 | 38.4 |
| Wellington      | P  | 50         | S    | 50       | 4530 | 40.8 |
| Oshiyama        | eP | 55.2       | e    | 30 56.2  | 4730 | 42.6 |
| Kyosumi         | 1P | 57.6       | ePcP | 54.3     | 4870 | 42.0 |
| Wakaura         | P  | 29 03.0    |      |          | 4745 | 42.7 |
| Monowai         | eP | 03         |      |          | 4710 | 42.4 |
| Mt. Tsukuba     | 1P | 05.1       | ePcP | 56.4     | 4780 | 43.0 |
| Dodaira         | 1P | 05.4       | e    | 34 45.8  | 4780 | 43.0 |
| Matsushiro      | 1P | 11.1       | eS   | 35 38    | 4865 | 43.8 |
| Mundaring       | eP | 11.8C      |      |          | 4870 | 43.8 |
| Shiraki         | P  | 14.0       |      |          | 4890 | 44.0 |
| Lembang         | 1P | 26.5       |      |          | 5055 | 45.5 |
| Hong Kong       | eP | 40.0D      | eS   | 36 32.0  | 5220 | 47.0 |

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|                   |      |            |       |          |       |       |
|-------------------|------|------------|-------|----------|-------|-------|
| Séoul             | eP   | 00 29 55.9 |       |          | 5455  | 49.1  |
| Vladivostok       | P    | 30 16D     | eS    | 00 37 31 | 5755  | 51.8  |
| Terre Adélie      | eP   | 31 27.7    | ePP   | 31 44.0  | 6900  | 62.1  |
| Magadan           | P    | 44         |       |          | 7170  | 64.5  |
| Chittagong        | 1P   | 54D        |       |          | 7340  | 66.1  |
| Oulan Bator       | 1P   | 58         | S     | 40 48    | 7410  | 66.7  |
| Yakoutsik         | P    | 32 14D     | S     | 41 20    | 7710  | 69.4  |
| Bodajbo           | 1P   | 20D        |       |          | 7800  | 70.2  |
| Irkoutsik         | P    | 23D        | eS    |          | 7845  | 70.6  |
| Esen Boulak       | 1P   | 32         | S     | 37       | 7990  | 71.9  |
| Scott Base        | P    | 38.8       | S     | 53       | 8110  | 73.0  |
| Mirny             | 1P   | 40.5       | 1S    | 42 06    | 8200  | 73.8  |
| Tiksi             | 1P   | 40.5       | 1S    | 05.5     | 8200  | 73.8  |
| Palmer            | eP   | 33 04D     | eS    | 43 00    | 8700  | 78.3  |
| College           | 1P   | 13.0       | eS    | 12.0     | 8870  | 79.8  |
| Gilmor r Creek    | 1P   | 24.3       |       |          | 9110  | 82.0  |
| Lahore            | eP   | 25         |       |          | 9120  | 82.1  |
| Semipalatinsk     | P    | 33         | eS    | 51       | 9265  | 83.4  |
| Talgar            | 1P   | 33         | eS    | 48.5     | 9245  | 83.2  |
| Ryrd              | 1P   | 36D        | eS    | 55       | 9270  | 83.4  |
| Mawson            | 1P   | 39.8       |       |          | 9390  | 84.5  |
| Frounze           | 1P   | 44.0       |       |          | 9500  | 85.5  |
| Warsak            | P    | 44.5D      | 1S    | 44 06    | 9470  | 85.2  |
| Garm              | eP   | 48         |       |          |       |       |
| Kouliab           | 1P   | 56D        |       |          | 9755  | 87.8  |
| Tachkent          | 1P   | 58.3D      |       |          | 9780  | 88.0  |
| Quetta            | 1P   | 34 02      |       |          | 9870  | 88.8  |
| Oroville          | eP   | 04.0       | eS    | 36       | 9930  | 89.4  |
| Pasadena          | eP   | 05.0       |       |          | 9945  | 89.5  |
| Jamestown         | eP   | 13.0       | eSKS  | 42       | 10180 | 91.6  |
| Blue M.           | eP   | 14.4       |       |          | 10010 | 90.1  |
| Newport           | eP   | 19.1       |       |          | 10345 | 93.1  |
| Nordman           | eP   | 20.0       | e     | 34 46.0  | 10390 | 93.5  |
| Direka            | eP   | 21.0       | e     | 47.0     | 10400 | 93.6  |
| Mould Bay         | eP   | 23.2       | e     | 48.8     | 10410 | 93.7  |
| Hungry Horse      | eP   | 24.0       |       |          | 10480 | 94.3  |
| Edmonton          | eP   | 30.8       |       |          | 10610 | 95.5  |
| Sverdlovsk        | eP   | 33.0       |       |          | 10680 | 96.1  |
| Syowa             | eP   | 33D        |       |          | 10630 | 95.7  |
| Boulder City      | i(P) | 34.7       |       |          | 10400 | 93.6  |
| Mashad            | e(P) | 34.9       | e     | 38 16.9  | 10490 | 94.4  |
| Achkhabad         | e(P) | 36.0       |       |          | 10675 | 96.1  |
| Tonto Forest      | eP   | 36.5       |       |          | 10780 | 97.0  |
| Kizyl-Arvat       | eP   | 44.3       | eSKS1 | 45 21.0  | 10810 | 97.3  |
| Uinta Basin       | eP   | 45C        |       |          | 10955 | 98.6  |
| Novo-Lazarevskaya | eP   | 47.8       | eSKS1 | 23.6     | 10970 | 98.7  |
| Resolute          | eP   | 50.5       |       |          | 11110 | 100.0 |
| Chiraz            | P    | 55.0       |       |          | 11180 | 100.6 |
| Dugway            | e(P) | 59.0       |       |          | 11290 | 101.6 |
| Albuquerque       | eP   | 35 01.0    |       |          | 10690 | 96.2  |
| Tahriz            | eP   | 02.5       |       |          | 11255 | 101.3 |
|                   | eP   | 21         | ePP   | 39 46    | 11830 | 106.5 |

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|                         |        |       |         |        |         |      |       |       |
|-------------------------|--------|-------|---------|--------|---------|------|-------|-------|
| Golden                  | e(P)   | 00 35 | 25.5    |        |         |      | 11320 | 101.9 |
| Sodankylä               | eP     |       | 27      |        |         |      | 12020 | 108.2 |
| Kajaani                 | iP     |       | 33.3    |        |         |      | 12180 | 109.6 |
| Oulu                    | eP     |       | 34      |        |         |      | 12185 | 109.7 |
| Wichita M.              | e (PP) |       | 52.8    | ePP    | 00 40   | 00.9 | 11970 | 107.7 |
| <del>Wichita</del> Uméa | iPKP   | 39    | 41.5    |        |         |      | 12490 | 112.4 |
| NurmiJaerwi             | iPKP   |       | 42.2    | eSS    | 55 52   |      | 12520 | 112.7 |
| Kevo                    | ePP    |       | 48      | eSS    | 54 56   |      | 11865 | 106.8 |
| Uppsala                 | iPKP   |       | 48.1    |        |         |      | 12880 | 115.9 |
| Addis Ababa             | iPKP   |       | 49.9    |        |         |      | 12780 | 115.0 |
| Ksara                   | e(PKP) |       | 51      | iPP    | 40 54   |      | 12845 | 115.6 |
| Uddeholm                | iPKP   |       | 51.4    |        |         |      | 13025 | 117.2 |
| Jérusalem               | iPKP   |       | 51.7    | ePP    | 41 00   |      | 12945 | 116.5 |
| Nairobi                 | iPKP   |       | 51.9C   |        |         |      | 12920 | 116.3 |
| Lillehammer             | iPKP   |       | 52.8    |        |         |      | 13055 | 117.5 |
| Iasy                    | PKP    |       | 53      |        |         |      | 13080 | 117.5 |
| Campulung               | PKP    |       | 54      |        |         |      | 13325 | 119.9 |
| Cumberland Pl.          | PKP    |       | 54.4    |        |         |      | 13120 | 118.1 |
| Karlskrona              | iPKP   |       | 54.9    |        |         |      | 13230 | 119.1 |
| Vrincioaia              | PKP    |       | 55      |        |         |      | 13180 | 118.6 |
| Istanbul Kand           | iPKP   |       | 55.7    | i(S)   |         | 14.7 | 13210 | 118.9 |
| Helwan                  | ePKP   |       | 57      | M      | 01 20   | 00   | 13355 | 120.2 |
| Karoi                   | iPKP   |       | 57      | i      | 00 41   | 22   | 13370 | 120.3 |
| Ciné                    | iPKP   |       | 58      | i      |         | 28   | 13415 | 120.7 |
| Bulawayo                | iPKP   |       | 58D     | i      | 40 15   |      | 13380 | 120.2 |
| Krakow                  | ePKP   |       | 59      |        |         |      | 13400 | 120.6 |
| Niedzica                | ePKP   |       | 59      | ePKP   |         | 10   | 13415 | 120.7 |
| Sofia                   | iPKP   | 40    | 01.2    |        |         |      | 13575 | 122.2 |
| Broken Hill             | iPKP   |       | 02D     | i      | 41 34   |      | 13580 | 122.1 |
| Ljubljana               | e      |       | 03      | iPKIKP | 40 07.8 |      | 13985 | 125.9 |
| Budapest                | ePKP   |       | 03      |        |         |      | 13610 | 122.5 |
| Collm                   | ePKP1  |       | 03D     | e      | 41 38   |      | 13710 | 123.4 |
| Brébeuf                 | ePKP   |       | 03      |        |         |      | 13635 | 122.7 |
| Bratislava              | iPKP   |       | 03.3D   | ei     | 40 06.3 |      | 13690 | 123.2 |
| Pruhonice               | ePKP   |       | 04      | eSS    | 58 36   |      | 13720 | 123.5 |
| Srobarova               | PKP    |       | 04.0    |        |         |      | 13630 | 122.7 |
| Butare                  | iPKP   |       | 04.1    | iPP    | 41 42.1 |      | 13690 | 123.2 |
| Wien                    | iPKP   |       | 05.6C   |        |         |      | 13730 | 123.6 |
| Moxa                    | ePKP   |       | 06      |        |         |      | 13830 | 124.5 |
| Kasperské Hory          | iPKP   |       | 06.0    |        |         |      | 13830 | 124.5 |
| Erlangen                | ePKP   |       | 07.8    | PP     | 42 01.6 |      | 13925 | 125.3 |
| Fürstfeldbruck          | ePKP   |       | 09      | eiPP   | 41 57   |      | 14030 | 126.3 |
| Trieste                 | ePKP   |       | 09.5    | eSP    | 52 03   |      | 14060 | 126.5 |
| Bensberg                | ePKP   |       | 09.6    | LR     | 01 26   | --   | 14030 | 126.3 |
| Stuttgart               | ePKP   |       | 11.0(C) |        |         |      | 14100 | 126.9 |
| Strasbourg              | ePKIKP |       | 12      |        |         |      | 14190 | 127.7 |
| Garchy                  | iPKP   |       | 12.0    | i      | 43 39.7 |      | 14535 | 130.8 |
| Bühlerhöhe              | iPKP   |       | 12.2    |        |         |      | 14160 | 127.5 |
| Karlsruhe               | ePKP   |       | 12.2    |        |         |      | 14125 | 127.1 |
| Welschbruch             | iPKIKP |       | 13.4    | e      | 42 07.4 |      | 14230 | 128.0 |
| Champ du Feu            | ePKP1  |       | 13.7    |        |         |      | 14235 | 128.1 |
| Basel                   | PKP    |       | 14      |        |         |      | 14285 | 128.6 |
| Windhoek                | iPKP1  |       | 14.4    |        |         |      | 14345 | 129.1 |
| Haudompré               | ePKP1  |       | 14.6    |        |         |      | 14310 | 128.8 |

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|                   |                   |                   |       |            |       |       |
|-------------------|-------------------|-------------------|-------|------------|-------|-------|
| Huancayo          | PKP               | 00 40 17.0        |       |            | 14300 | 128.7 |
| Lanslevillard     | ePKIKP            | 17.5              | eIPP  | 00 42 35.5 | 14495 | 130.5 |
| Vouglans          | ePKIKP            | 17.7              | e     | 40 23      | 14475 | 130.3 |
| Sommée Lormes     | ePKP <sub>1</sub> | 17.9              |       |            | 14500 | 130.5 |
| Les Buteaux       | ePKP <sub>1</sub> | 18.3              |       |            | 14515 | 130.7 |
| St. Saulge        | ePKP <sub>1</sub> | 18.5              |       |            | 14530 | 130.8 |
| Monteynard        | ePKIKP            | 18.5              |       |            | 14590 | 131.3 |
| Isola             | iPKP              | 18.8              |       |            | 14570 | 131.1 |
| St. Paul en Foret | ePKP <sub>1</sub> | 19.9              | ePP   | 43 43.3    | 14640 | 131.7 |
| La Mourre         | ePKP <sub>1</sub> | 20.0              | e     | 44.4       | 14665 | 132.0 |
| Lorgues           | ePKP <sub>1</sub> | 20.3              | e     | 45.0       | 14665 | 132.0 |
| Toulx Ste Croix   | ePKP <sub>1</sub> | 20.6              |       |            | 14665 | 132.0 |
| Polinière         | ePKP <sub>1</sub> | 20.6              | e     | 40.7       | 14580 | 131.2 |
| St. Sauveur       | ePKP <sub>1</sub> | 20.7              | d     | 41.0       | 14580 | 131.2 |
| Gorron            | ePKP <sub>1</sub> | 21.8              | i     | 41.1       | 14620 | 131.6 |
| Le Pertre         | ePKP <sub>1</sub> | 22.8              | e     | 43.7       | 14660 | 132.0 |
| Arequipa          | PKP               | 27.2              |       |            | 14520 | 130.7 |
| Quito             | (PKP)             | 28                | eSKS  | 47 21      | 14215 | 127.9 |
| Toledo            | ePKP              | 28.3              | ePP   | 43 34.0    | 15540 | 139.8 |
| Sétif             | iPKP              | 32.5              | e     | 44 02      | 15280 | 137.3 |
| Almería           | iPKP              | 37                |       |            | 15715 | 141.4 |
| Tamanrasset       | ePKP              | 41 <sup>D</sup>   |       |            | 16040 | 144.3 |
| Caracas           | ePKP              | 42.0              | eiSKP | 08         | 15530 | 139.8 |
| Trinidad          | PKP               | 42.0              |       |            | 16130 | 145.2 |
| Moxa              | ePKIKP            | 42.8              |       |            | 16080 | 144.7 |
| Clermont          | ePKIKP            | 45                | i     | 41 26      | 14665 | 132.0 |
| Ifrane            | iPKP              | 45.8 <sup>D</sup> | eM    | 44 20      | 16155 | 145.4 |
| Rabat             | PKP               | 47                | LM    | 40 --      | 16210 | 145.9 |
| Averroes          | iPKP              | 49.5              | eM    | 44 14      | 16305 | 146.7 |
| Ponta Delgada     | PKP <sub>2</sub>  | 56                | LR    | 01 30 48   | 16390 | 157.5 |
| Lamto             | PKP               | 41 05.1           |       |            | 17610 | 158.5 |
| M'Bour            | ePKP <sub>1</sub> | 14                | iPP   | 00 46 02   | 18530 | 166.8 |
| Istanbul UTI      | ePP               | (15)              | e     | 51 04      | 13215 | 118.9 |
| l'Aquila          | ePP               | 42 24             | e     | 01 05 40   | 14295 | 128.7 |
| Roselend          | ePP               | 28                |       |            | 14480 | 130.3 |

Inscrit à Nat. Univ. Mexico - Roma - Vista Hermosa -  
Berkeley - Téhéran - Kermanshah - Penas -  
La Paz

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Région des Iles Fidji

19° 3 S ; 177° 6 W ; h = 570 km ; H = 02h.06<sup>mn</sup>43.2<sup>s</sup>. (CGS)

M. = 5.0 (Rabaul) ; 4.9 (South Pole) ; 4.8 (Mundaring) ; 4.5 (Bozeman SSS) ;  
4.3 (Wichita M.) ; 4.2 (CGS) ; 4.0 (Eureka - Albuquerque) ; 3.8 (Uinta  
Basin - Blue M.) ; 3.7 (Tonto Forest)

Afiamalau 1P 02 10 37 eS 02 12 07 855 7.7

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|                 |                   |       |                     |            |       |       |
|-----------------|-------------------|-------|---------------------|------------|-------|-------|
| Nouméa          | eIP               | 02 10 | 41.0                |            |       |       |
| Port Vila       | IP                | 11    | 37.9 <sup>D</sup>   |            | 1500  | 13.5  |
| Lonorore        | IP                |       | 42.9 <sup>C</sup>   |            | 1555  | 14.0  |
| Luganville      | eP                |       | 52.8 <sup>C</sup>   |            | 1680  | 15.1  |
| Port Moresby    | eP                | 14 41 |                     | e 02 16 11 | 3945  | 35.5  |
| Charters Towers | IP                |       | 42                  |            | 3780  | 34.0  |
| Toolangi        | eP                | 15    | 06.0                |            | 4100  | 36.9  |
| Warramunga      | eP                | 16    | 10                  |            | 5020  | 45.2  |
| Mundaring       | eP                | 17    | 53.1 <sup>C</sup>   |            | 6690  | 60.2  |
| South Pole      | IP                | 19    | 04.4                |            | 7870  | 70.8  |
| Eureka          | eP                | 20    | 05.5                |            | 9110  | 82.0  |
| Tucson          | eP                |       | 05.8                |            | 9100  | 81.9  |
| Tonto Forest    | eP                |       | 08.7                |            | 9170  | 82.5  |
| Blue M.         | eP                |       | 15.7                |            | 9345  | 84.1  |
| Albuquerque     | eP                |       | 26.8                |            | 9600  | 86.4  |
| College         | eP                |       | 27.0                |            | 9670  | 87.0  |
| Uinta Basin     | eP                |       | 28.3                |            | 9620  | 86.6  |
| Bozeman SSS     | eP                |       | 34.5                |            | 9770  | 87.9  |
| Wichita M.      | eP                |       | 52.5                |            | 10245 | 92.2  |
| Kajaani         | IPKP              | 26    | 53.2                |            | 14680 | 132.1 |
| Bilawayo        | IPKP              |       | 54.0                |            | 14790 | 133.1 |
| Karoi           | IPKP              |       | 58                  |            | 15020 | 135.2 |
| Nurmijaerwi     | IPKP              | 27    | 01.0                |            | 15100 | 135.9 |
| Broken Hill     | IPKP              |       | 04                  |            | 15310 | 137.8 |
| Sada Bandeira   | PKP               |       | 17.2                |            | 16020 | 144.2 |
| Butare          | IPKP              |       | 20.9 <sup>C/D</sup> |            |       |       |
| Collm           | IPKP              |       | 22.7                |            | 16330 | 147.0 |
| Moxa            | PKP               |       | 25                  |            | 16430 | 147.9 |
| Kasperské Hory  | eIPKP             |       | 28                  |            |       |       |
| Sommée Lormes   | ePKP <sub>1</sub> |       | 35.2                |            | 16900 | 152.1 |
| St. Saulge      | ePKP <sub>1</sub> |       | 35.6                |            | 16920 | 152.3 |
| Les Bute aux    | ePKP <sub>1</sub> |       | 37.0                |            |       |       |

inscrit à Koumac.

III.- 2 Janvier

Région de la Nouvelle Bretagne  
H = 02<sup>h</sup>.24<sup>m</sup>31<sup>s</sup>.; M. = 5.2(Rabaul)

|                |    |       |      |      |          |  |
|----------------|----|-------|------|------|----------|--|
| Rabalanakaia   | eP | 02 25 | 02.5 |      |          |  |
| Wanliss Street | eP |       | 03   |      |          |  |
| Keravat        | IP |       | 03.5 | IS   | 02 25 31 |  |
| Rabaul         | IP |       | 03.5 | IS   | 31.0     |  |
| Port Moresby   | eP | 26 27 |      | eS   | 27 57    |  |
| Honiara        | eP |       | 30   | 1(S) | 50.7     |  |
| Warramunga     | eP | 29    | 38   |      |          |  |

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IV.- 2 Janvier

Nouvelles Hébrides (Ile Tanna)

19°0 S ; 169°2 E ; H = 02h.30mn25s. ; M. = 3.4(Nouméa)

|           |     |            |      |          |
|-----------|-----|------------|------|----------|
| Port Vila | eIP | 02 31 59.9 | 1(S) | 02 32 30 |
| Ouanaham  | iP  | 32 07.3C   | 1S   | 40       |
| Nouméa    | iP  | 28.6C      | 1S   | 33 14.5  |
| Koumac    | iP  | 39.2C      |      |          |

inscrit à Luganville.

V.- 2 Janvier

Mer de Norvège

H = 02h.58.2s. (Uppsala)

|             |    |            |    |          |
|-------------|----|------------|----|----------|
| Kiruna      | iP | 02 59 58.9 |    |          |
| Kevo        | eP | 03 00 18   |    |          |
| Sodankylä   | eP | 32         |    |          |
| Skalstugan  | iP | 32.2       | 1S | 03 02 11 |
| Umeå        | eP | 40         |    |          |
| Oulu        | eP | 43         |    |          |
| Kajaani     | eP | 01 02      |    |          |
| Uddeholm    | eP | 20         |    |          |
| Nurmijaerwi | iP | 51.7       |    |          |

VI.- 2 Janvier

Région de la Nouvelle Bretagne

H = 04h.42mn22.9s. ; M. = 5.5(Rabaul)

|              |    |                       |      |            |     |     |
|--------------|----|-----------------------|------|------------|-----|-----|
| Keravat      | iP | 04 44 06 <sup>D</sup> | 1S   | 04 45 22.5 | 720 | 6.5 |
| Rabaul       | iP | 06.5                  | e(S) | 22         | 720 | 6.5 |
| Honiara      | eP | 45                    |      |            |     |     |
| Port Moresby | eP | 45(04)                | eS   | 46 37      |     |     |

VII.- 2 Janvier

Région de la Nouvelle Bretagne

H = 05h.28mn26s. ; M. = 4.6(Rabaul)

|                |    |                   |    |            |     |     |
|----------------|----|-------------------|----|------------|-----|-----|
| Keravat        | iP | 05 28 46          |    |            | 170 | 1.5 |
| Rabalanakaia   | eP | 47.5 <sup>D</sup> |    |            |     |     |
| Wanliss Street | iP | 47.8 <sup>D</sup> |    |            |     |     |
| Rabaul         | iP | 48.0              | 1S | 05 29 03.5 | 170 | 1.5 |
| Sulphur Creek  | iP | 48.0              |    |            |     |     |
| Port Moresby   | eP | 30 03             | eS | 31 16      |     |     |



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VIII.. 2 Janvier

Iles Kouriles

45°7 N ; 150°9 E ; h = 87 km ; H = 07h.30mn 11.7s. (CGS)  
 45°5 N ; 151°4 E ; H = 07h.30mn 03s. (URSS)

M. = 5.9(New Dehli) ; 4.9(College) ; 4.7(CGS) ; 4.6(Bozeman SSS - Mt. Tsukuba) ;  
 4.5(Bureka - Wichita M.) ; 4.3(Dugway) ; 4.1(Blue M.).

|                   |      |                   |    |            |      |      |
|-------------------|------|-------------------|----|------------|------|------|
| Kourilsk          | e P  | 07 30 42.1        | eS | 07 31 08.6 |      |      |
| Youjno_Sakhalinsk | iP   | 31 35             | eS | 32 40      |      |      |
| Mt. Tsukuba       | eP   | 32 57.6           |    |            | 1390 | 12.5 |
| Dodaira           | eP   | 33 07.7           | eS | 35 25.0    | 1455 | 13.1 |
| Matsushiro        | iP   | 09.9              |    |            |      |      |
| Vladivostok       | eP   | 22 <sup>D</sup>   |    |            |      |      |
| Oishiyama         | eP   | 34 00.4           |    |            | 1845 | 16.6 |
| Wakaura           | eP   | 00.5              |    |            | 1845 | 16.6 |
| Shiraki           | P    | 11.3              |    |            | 1980 | 17.8 |
| Yakoutsk          | eP   | 42                | iS | 38 30      |      |      |
| Tiksi             | eP   | 35 55             |    |            |      |      |
| College           | iP   | 37 32.2           |    |            | 4210 | 37.9 |
| Gilmore Creek     | eP   | 23.7              |    |            | 4230 | 38.1 |
| Mould Bay         | eP   | 38 28.0           |    |            | 5120 | 46.1 |
| Talgar            | eP   | 39 05             |    |            |      |      |
| Resolute          | iP   | 15.5 <sup>D</sup> |    |            | 5810 | 52.3 |
| Garm              | eP   | 54                |    |            |      |      |
| Edmonton          | eP   | 58.0              |    |            | 6480 | 58.2 |
| New Dehli         | iP   | 40 04.6           |    |            | 6570 | 59.1 |
| Sodankylä         | e P  | 08                |    |            |      |      |
| Blue M.           | e P  | 17.5              |    |            | 6770 | 60.9 |
| Kajaani           | iP   | 19.6              |    |            |      |      |
| Oulu              | eP   | 20                |    |            |      |      |
| Bozeman SSS       | eP   | 35.5              |    |            | 7070 | 63.6 |
| Uméa              | iP   | 37.1              |    |            |      |      |
| Pasadena          | i(P) | 41                |    |            | 7455 | 67.1 |
| Quetta            | iP   | 45.1 <sup>D</sup> |    |            | 7230 | 65.1 |
| Bureka            | iP   | 45.2              |    |            | 7220 | 65.0 |
| Nurmijaerwi       | iP   | 46.2              |    |            | 7280 | 65.5 |
| Uinta Basin       | e(P) | 50.8              | e  | 07 45 30.0 | 7580 | 68.2 |
| Dugway            | eP   | 53.5              |    |            | 7380 | 66.4 |
| Flaming Gorge     | eP   | 55.6              |    |            | 7545 | 67.9 |
| Uddeholm          | iP   | 41 07.5           |    |            |      |      |
| Lillehammer       | eP   | 08                |    |            | 7645 | 68.3 |
| Kirovabad         | eP   | 21                |    |            |      |      |
| Bakouriani        | iP   | 26.6 <sup>D</sup> |    |            |      |      |
| Chiraz            | eIP  | 43                |    |            | 8280 | 74.5 |
| Iasy              | P    | 46                |    |            |      |      |
| Çöllm             | iP   | 55.0 <sup>D</sup> |    |            | 8530 | 76.8 |
| Moxa              | eP   | 42 01             |    |            | 8645 | 77.8 |
| Wichita M.        | eP   | 03.9              |    |            | 8700 | 78.3 |
| Kasperské Hory    | eIP  | 05                |    |            | 8720 | 78.5 |
| Erlangen          | eP   | 06.8              |    |            |      |      |
| Ciné              | iP   | 25                |    |            |      |      |

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|                 |     |            |    |            |      |      |
|-----------------|-----|------------|----|------------|------|------|
| Sommée Lormes   | eP  | 07 42 28.8 |    |            | 9220 | 83.0 |
| Les Buteaux     | eP  | 30.1       |    |            |      |      |
| St. Saulge      | eP  | 30.5       |    |            | 9255 | 83.3 |
| Roselend        | eP  | 30.5       | ei | 07 42 33.0 |      |      |
| Lanslevillard   | e1P | 33.7       | ei | 36.4       |      |      |
| Toulx Ste Croix | eP  | 36.7       |    |            |      |      |
| Monteynard      | eP  | 37.1       |    |            |      |      |
| La Paz          | eP  | 49 25.7    |    |            |      |      |

inscrit à Penas.

IX.- 2 Janvier

Guerrero (Mexique)

17° 1' N ; 99° 8' W ; h = 60 km ; H = 07h.35mn32.2s. (CGS)  
 16° 48' N ; 100° 12' W ; H = 07h.35mn24s. (Tacubaya)

M. = 4.6 (Penas) ; 4.5 (Tonto Forest) ; 4.1 (CGS) ;  
 4.0 (Blue M.) ; 3.9 (Cumberland Pl.) ; 3.8 (Wichita M.) ; 3.6 (Albuquerque)

|                   |      |            |     |          |      |      |
|-------------------|------|------------|-----|----------|------|------|
| Presa Infiernillo | iPn  | 07 36 02.5 | 1Sn | 07 36 31 |      |      |
| Nat.Univ.Mexico.  | iPn  | 09         | 1S  | 42.5     | 255  | 2.3  |
| Tacubaya          | iPn  | 11         | 1Sn | 46       | 255  | 2.3  |
| Oaxaca            | iPn  | 16         |     |          |      |      |
| Vista Hermosa     | iP   | 18.5       |     |          | 330  | 3.0  |
| Leon              | iS   | 37 32      |     |          |      |      |
| Vera Cruz         | iS   | 36         |     |          |      |      |
| Guadalajara       | e(S) | 36         |     |          |      |      |
| La Palma          | eP   | 38 04.0    | e   | 41 20.5  | 1190 | 10.7 |
| Lubbock           | eP   | 39 21.0    |     |          | 1830 | 16.5 |
| Wichita M         | eP   | 32.7       | ePP | 39 46.8  | 1945 | 17.5 |
| Tucson            | eP   | 40.4       | e   | 44 36.0  | 2000 | 18.0 |
| Albuquerque       | eP   | 48.2C      | e   | 45 20    | 2080 | 18.7 |
| Tulsa             | eP   | 54.0       |     |          | 2110 | 19.0 |
| Tonto Forest      | eP   | 40 02.9    | ePP | 40 19.3  | 2210 | 19.9 |
| Cumberland Pl.    | eP   | 26.8       |     |          | 2480 | 22.3 |
| Golden            | eP   | 33.5       |     |          | 2555 | 23.0 |
| Uinta Basin       | eP   | 50.8       |     |          |      |      |
| Quito             | eP   | 52         |     | 41 19    | 3020 | 27.2 |
| Blue M.           | eP   | 41 48.6    |     |          | 3480 | 31.3 |
| Edmonton          | eP   | 42 43.0    |     |          | 4170 | 37.5 |
| Penas             | eP   | 43 49.0    |     |          | 5045 | 45.4 |
| La Paz            | eP   | 51.5       |     |          |      |      |
| College           | iP   | 45 17.0    |     |          | 6330 | 57.4 |
| Mould Bay         | eP   | 35.0       |     |          | 6870 | 60.0 |

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X.- 2 Janvier

Iles Salomon

6°8 S ; 154°2 E ; h = 127km ; H = 07h.47<sup>mn</sup>15.6S. (CGS)

Mn = 5.7(Rabaul) ; 4.7(Eureka) ; 4.5(CGS) ; 4.4(Palmer)

|                 |    |            |    |          |      |      |
|-----------------|----|------------|----|----------|------|------|
| Keravat         | iP | 07 48 06   | i  | 07 49 24 | 370  | 3.3  |
| Rabaul          | iP | 07.0       | i  | 20.0     | 370  | 3.3  |
| Honiara         | eP | (46.5)     |    |          | 690  | 6.2  |
| Port Moresby    | iP | 49 04.4    | eS | 50(37)   | 830  | 7.5  |
| Charters Towers | iP | 50 45.4    |    |          | 1700 | 15.3 |
| Warramunga      | eP | 52 14.5    |    |          | 2590 | 23.3 |
| Palmer          | eP | 59 16.2    |    |          | 8990 | 80.9 |
| South Pole      | eP | 27.3       |    |          | 9245 | 83.2 |
| College         | eP | 29.0       |    |          | 9245 | 83.2 |
| Eureka          | iP | 08 00 22.2 |    |          | 9345 | 94.1 |

XI.- 2 Janvier

Yougoslavie

Vers 46°2 N ; 16°1/4 E ; H = 08h.25.4<sup>mn</sup>(BCIS)

|                |      |            |      |            |  |  |
|----------------|------|------------|------|------------|--|--|
| Zagreb         | ePg  | 08 25 38.3 | e    | 08 26 20.0 |  |  |
| Ljubljana      | iPg  | 48.3       | iSg  | 07.7       |  |  |
| Trieste        | ePg  | 53.5       | iSg  | 19.5       |  |  |
| Kasperské Hory | eIPg | 26 28      | eISg | 27 17      |  |  |
| Bratislava     | eSg  | 29.8       |      |            |  |  |
| Pruhonice      | ePg  | 37         |      |            |  |  |
| Roselend       | ePn  | 27 04      |      |            |  |  |
| Collm          | eSg  | 28 32      | e    | 29 01      |  |  |

XII.- 2 Janvier

Nouvelles Hébrides (Ile Espiritu Santo)  
H = 09h.03<sup>mn</sup>52S. (Nouméa)

|            |     |          |    |          |  |  |
|------------|-----|----------|----|----------|--|--|
| Luganville | iP  | 09 04 10 | eS | 09 04 25 |  |  |
| Lonorore   | eIP | 17.3     | iS | 35       |  |  |
| Port Vila  | eIP | 36.5     | iS | 05 12.5  |  |  |

XIII.- 2 Janvier

Lac Tanganyika

7°0 S ; 30°1 E ; H = 09h.05<sup>mn</sup>48S. ; M. = 3.5(Bulawayo)

|             |     |            |       |            |  |  |
|-------------|-----|------------|-------|------------|--|--|
| Butare      | iPn | 09 06 12.5 | i(Sn) | 09 06 52.0 |  |  |
| Broken Hill | ePn | 07 40      | eSn   | 09 02      |  |  |

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Karoi ePn 09 08 08 eSg 09 10 50  
 Nairobi 1P 09 27.8

inscrit à Bulawayo - Bangui

XIV.- 2 Janvier

Californie Centrale. (USA)

35°7 N ; 118°0 W ; h = 16km ; H = 09<sup>h</sup>50<sup>mn</sup>45.6<sup>s</sup>. (CGS)  
 35°44.3' N ; 118°02.2' W ; (Pasadena)

M. = 4.4(Uinta Basin); 4.2(Berkeley); 4.0(CGS); 3.6(Tonto Forest);  
 3.0(Pasadena)

|                 |    |       |                   |     |            |     |     |
|-----------------|----|-------|-------------------|-----|------------|-----|-----|
| China Lake      | 1P | 09 50 | 51.3              |     |            | 45  | 0.4 |
| Isabella        | 1P |       | 52.0              |     |            | 45  | 0.4 |
| Woody           | 1P |       | 58.0              | 1S  | 09 51 05.5 | 80  | 0.7 |
| Cottonwood      | 1P |       | 59.5              | 1S  | 07.5       | 80  | 0.7 |
| Fort Tejon      | 1P | 51    | 05.5              |     |            | 120 | 1.1 |
| Goldstone       | 1P |       | 05.8              |     |            | 120 | 1.1 |
| Tinemaha        | 1P |       | 10.2              | 1S  | 28.2       | 145 | 1.3 |
| Mt. Wilson      | 1P |       | 12.8              |     |            | 170 | 1.5 |
| Pasadena        | 1P |       | 14.7              | 1S  | 35.1       | 180 | 1.6 |
| Santa Ynez Peak | 1P |       | 22.0              |     |            | 220 | 2.0 |
| Priest          | eP |       | 22.2 <sup>C</sup> | e   | 54         | 245 | 2.2 |
| Las Vegas       | 1P |       | 32.0              |     |            | 270 | 2.4 |
| San Luis Dam    | eP |       | 32.2              | e   | 38.3       | 320 | 2.9 |
| Jamestown       | eP |       | 34.0 <sup>C</sup> | e   | 52 12      | 320 | 2.9 |
| Mt. Hamilton    | eP |       | 40.4              |     |            | 370 | 3.3 |
| Eureka          | eP |       | 49.5              |     |            | 455 | 4.1 |
| Oroville        | eP | 52    | 04.5              | e   | 53 06.2    | 520 | 4.7 |
| Tonto Forest    | eP |       | 11.4              | eLg | 45.7       | 630 | 5.7 |
| Mineral         | eP |       | 22.7 <sup>D</sup> |     |            | 600 | 5.4 |
| Dugway          | eP |       | 38.6              | eL  | 55.7       | 680 | 6.1 |
| Uinta Basin     | eP |       | 49.9              |     |            | 900 | 8.1 |

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Californie Centrale (USA)

35°7 N ; 118°0 W ; h = 16km ; H = 11<sup>h</sup>01<sup>mn</sup>18.0<sup>s</sup>. (CGS)  
 35°44.3' N ; 118°02.2' W (Pasadena)

M. = 4.4(Uinta Basin); 3.9(CGS); 3.5(Tonto Forest); 2 3/4 - 3(Pasadena)

|              |    |       |      |    |            |     |     |
|--------------|----|-------|------|----|------------|-----|-----|
| Isabella     | 1P | 11 01 | 24.5 |    |            | 45  | 0.4 |
| China Lake   | 1P |       | 25.0 |    |            | 45  | 0.4 |
| Cottonwood   | 1P |       | 31.0 | 1S | 11 01 40.1 | 80  | 0.7 |
| Fort Tejon   | 1P |       | 37.9 |    |            | 120 | 1.1 |
| Goldstone    | 1P |       | 38.2 |    |            | 120 | 1.1 |
| Tinemaha     | 1P |       | 42.7 | 1S | 02 01.4    | 145 | 1.3 |
| Mount Wilson | 1P |       | 44.8 |    |            | 170 | 1.5 |

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|                 |    |       |      |     |            |      |     |
|-----------------|----|-------|------|-----|------------|------|-----|
| Pasadena        | iP | 11 01 | 47.6 | iS  | 11 02 06.9 | 180  | 1.6 |
| Santa Ynez Paek | iP |       | 54.1 |     |            | 220  | 2.0 |
| Priest          | eP |       | 55.1 |     |            | 245  | 2.2 |
| Jamestown       | eP | 02    | 07.0 |     |            | 320  | 2.9 |
| San Luis Dam    | eP |       | 08.1 | eL  | 41.5       | 320  | 2.9 |
| Mt. Hamilton    | eP |       | 14.1 |     |            | 370  | 3.3 |
| Eureka          | eP |       | 22.3 |     |            | 455  | 4.1 |
| Tonto Forest    | eP |       | 45.6 | eLg | 04 18.8    | 630  | 5.7 |
| Mineral         | eP |       | 58.6 |     |            | 600  | 5.4 |
| Uinta Basin     | eP | 03    | 23.2 |     |            | 900  | 8.1 |
| Blue M.         | eP |       | 39.8 |     |            | 1010 | 9.1 |

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Nouvelles Hébrides

15°0 S ; 167°6 E ; h = 127km ; H = 11h.44<sup>mn</sup>51.6S. (CGS)  
 14°9 S ; 167°6 E ; H = 11h.44<sup>mn</sup>50S. (Nouméa)

Ressenti à Luganville (IV)

M. = 5.1(South Pole - Nouméa); 5.0(Shillong); 4.7(CG5); 4.5(Tonto Forest);  
 4.2(Blue M.)

|                 |                    |       |                 |    |          |       |       |
|-----------------|--------------------|-------|-----------------|----|----------|-------|-------|
| Luganville      | eP                 | 11 45 | 11.2C           |    |          | 80    | 0.7   |
| Lonorore        | iP                 |       | 14.3C           | iS | 11 45 24 | 110   | 1.0   |
| Port Vila       | eiP                |       | 36.7            | iS | 46 12    | 310   | 2.8   |
| Ouanaham        | iP                 | 46    | 11.5C           | iS | 47 10.5  | 630   | 5.7   |
| Koumac          | iP                 |       | 23.7C           | iS | 36       | 710   | 6.4   |
| Nouméa          | iP                 |       | 37.7C           | iS | 59       | 810   | 7.3   |
| Honiara         | eP                 | 47    | 04.5            | eS | 48 52    | 1030  | 9.3   |
| Esa'Ala         | eP                 |       | 42              |    |          |       |       |
| Brisbane        | iP                 | 49    | 00.9            | i  | 49 38    | 2055  | 18.5  |
| Port Moresby    | eP                 |       | 19              | eS | 53 06    | 2300  | 20.7  |
| Charters Towers | iP                 |       | 27              | iS | 04       | 2330  | 21.0  |
| Toolangi        | eP                 | 50    | 48.0            |    |          | 3310  | 29.8  |
| Karapiro        | eP                 |       | 56              |    |          |       |       |
| South Pole      | iP                 | 56    | 20.7            |    |          | 8345  | 75.1  |
| Shillong        | iP                 | 57    | 09.4            |    |          | 9330  | 84.0  |
| College         | eP                 |       | 20.0            |    |          | 9610  | 86.5  |
| Eureka          | eP                 |       | 35.5            |    |          | 9920  | 89.3  |
| Blue M.         | eP                 |       | 35.5            |    |          | 10020 | 90.2  |
| Tonto Forest    | eP                 |       | 44.0            |    |          | 10130 | 91.2  |
| Uinta Basin     | eP                 |       | 46.6            |    |          | 10470 | 94.2  |
| Bulawayo        | PKP                | 12 03 | 42.0            |    |          | 14080 | 126.7 |
| Karoi           | PKP                |       | 44 <sup>D</sup> |    |          | 14200 | 127.8 |
| Broken Hill     | PKP                |       | 50              |    |          | 14455 | 130.1 |
| Sommeé Lormes   | eiPKP <sub>1</sub> | 04    | 13.4            |    |          | 16120 | 145.1 |
| St. Saulge      | eiPKP <sub>1</sub> |       | 16.2            |    |          | 16155 | 145.4 |
| Les Buteaux     | eiPKP <sub>1</sub> |       | 16.3            |    |          |       |       |
| Vouglans        | eiPKP              |       | 16.6            | e  | 12 04 25 |       |       |
| Garchy          | iPKP               |       | 17.0C           |    |          |       |       |
| Lanslevillard   | ePKP               |       | 17              |    |          |       |       |
| Roselend        | eiPKP              |       | 17.2            |    |          |       |       |

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|                 |                    |            |                   |            |             |
|-----------------|--------------------|------------|-------------------|------------|-------------|
| Monteynard      | ePKP               | 12 04 18.5 |                   |            |             |
| Bangui          | ePKP <sub>1</sub>  | 18.9       | iPKP <sub>1</sub> | 12 05 01.4 | 16420 147.8 |
| Toulx Ste Croix | eiPKP <sub>1</sub> | 19.8       |                   |            |             |

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Hondo (Japon)

40° 5' N ; 140° 8' E ; h = 50km ; H = 11h.45<sup>mn</sup>55.9<sup>s</sup>. (CGS)  
 40° 4' N ; 140° 1/4' E ; H = 11h.45<sup>mn</sup>59<sup>s</sup>. (BCIS)  
 40° 06' N ; 141° 08' E ; h = 100km ; H = 11h.46<sup>mn</sup>02.2<sup>s</sup>. (JMA)  
 39° 0' N ; 142° 1' E ; H = 11h.45<sup>mn</sup>42<sup>s</sup>. (URSS)

M. = 5.3(Kajaani) ; 5.0(Nurmijaerwi) ; 4.7(CGS) ; 4.5(College)

|                   |       |                   |      |            |      |      |
|-------------------|-------|-------------------|------|------------|------|------|
| Morioka           | 1P    | 11 46 18.6        | 1S   | 11 46 30.4 |      |      |
| Miyako            | eP    | 21.2              | 1S   | 35.7       |      |      |
| Ofunato           | 1P    | 25.6              | 1S   | 42.4       |      |      |
| Sendai            | 1P    | 34.0              | 1S   | 57.8       |      |      |
| Mt. Tsukuba       | 1P    | 59.7              |      |            | 480  | 4.3  |
| Matsushiro        | 1P    | 47 05.5           |      |            |      |      |
| Dodaira           | eP    | 06.2              |      |            | 510  | 4.6  |
| Kyosumi           | eP    | 14.3              |      |            | 590  | 5.3  |
| Youjno-Sakhalinsk | eP    | 41                |      |            |      |      |
| Vladivostok       | e(P)  | 50                |      |            |      |      |
| Bodajbo           | P     | 51 12.5           |      |            |      |      |
| Talgar            | 1P    | 54 20C            |      |            |      |      |
| College           | eP    | 21                | e    | 54 30      | 5170 | 46.5 |
| Sverdlovsk        | eP    | 55 05             |      |            |      |      |
| Sodankylä         | 1P    | 56 10.2           |      |            | 6845 | 61.6 |
| Oulu              | 1P    | 20.3              |      |            | 7030 | 63.3 |
| Kajaani           | 1P    | 21.3 <sup>D</sup> |      |            |      |      |
| Umeå              | 1P    | 38.4              |      |            |      |      |
| Nurmijaerwi       | 1P    | 43.5              |      |            | 7410 | 66.7 |
| Bakouriani        | eP    | 59.8              |      |            |      |      |
| Blue M.           | eP    | 57 03.7           | ePcP | 57 54.2    | 7780 | 70.0 |
| Uddeholm          | 1P    | 07.5              |      |            |      |      |
| Tonto Forest      | e(PF) | 58 18.1           |      |            | 8920 | 80.3 |
| Tucson            | eP    | 20.0              |      |            | 9110 | 82.0 |

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Région Sud de l'Iran

29° 4' N ; 52° 6' E ; h = 26km ; H = 11h.59<sup>mn</sup>32.0<sup>s</sup> (CGS)  
 29° 8' N ; 52° 5' E ; H = 11h.59<sup>mn</sup>35<sup>s</sup>. (URSS)

M. = 5.1(Nurmijaerwi) ; - Kajaani) ; 5.0(CGS) ; 4.9(Kevo)

|            |    |            |  |  |      |     |
|------------|----|------------|--|--|------|-----|
| Chiraz     | 1P | 11 59 35.8 |  |  | 55   | 0.5 |
| Téhéran    | eP | 12 01 07   |  |  | 710  | 6.4 |
| Kermanshah | eP | (13)       |  |  | 755  | 6.8 |
| Mashad     | eP | 52         |  |  | 1010 | 9.1 |

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|                |      |                    |    |          |       |       |
|----------------|------|--------------------|----|----------|-------|-------|
| Goris          | eP   | 12 02 10           |    |          | 1260  | 11.3  |
| Kirovabad      | eP   | 26                 |    |          | 1370  | 12.3  |
| Quetta         | iP   | 33 <sup>D</sup>    |    |          | 1390  | 12.5  |
| Bakouriani     | iP   | 58                 |    |          | 1595  | 14.3  |
| Ksara          | eP   | 03 09              | iS | 12 05 47 | 1655  | 14.9  |
| Jérusalem      | e(P) | 2(4)               |    |          | 1685  | 15.2  |
| Garm           | eP   | 34 <sup>D</sup>    |    |          | 1940  | 17.5  |
| Tachkent       | eP   | 43 <sup>C</sup>    |    |          | 2005  | 18.0  |
| New Dehli      | eP   | 04 21.0            |    |          | 2400  | 21.6  |
| Frounze        | eP   | 33                 |    |          | 2485  | 22.2  |
| Campulung      | P    | 05 09              |    |          | 2985  | 26.9  |
| Kasperské Hory | eIP  | 06 27.5            |    |          | 3950  | 35.6  |
| Nurmijaerwi    | iP   | 34.9               |    |          | 4030  | 36.3  |
| Collm          | eP   | 37                 |    |          | 4070  | 36.6  |
| Erlangen       | eP   | 42.2               |    |          | 4135  | 37.2  |
| Kajaani        | iP   | 49.9               |    |          | 4230  | 38.1  |
| Uppsala        | iP   | 52.0 <sup>C</sup>  |    |          | 4280  | 38.5  |
| Lanslevillard  | eP   | 07 00 <sup>S</sup> |    |          | 4340  | 39.1  |
| Roselend       | eIP  | 00                 | e  | 07 02    | 4370  | 39.3  |
| Oulu           | iP   | 00.7               |    |          | 4380  | 39.4  |
| Apatity        | iP   | 05 <sup>C</sup>    |    |          | 4430  | 39.9  |
| Uméa           | iP   | 06.1 <sup>C</sup>  |    |          | 4455  | 40.1  |
| Uddeholm       | iP   | 07.7               |    |          | 4480  | 40.3  |
| Sodankylä      | iP   | 14.8               |    |          | 4570  | 41.1  |
| Skalstugan     | iP   | 28.2               |    |          | 4750  | 42.7  |
| Kiruna         | iP   | 29.7               |    |          | 4770  | 42.9  |
| Tamanrasset    | eP   | 31                 |    |          | 4720  | 42.5  |
| Kevo           | eP   | 31                 |    |          | 4770  | 42.9  |
| Karoi          | eP   | 08 35              |    |          | 5670  | 51.0  |
| Bulawayo       | eP   | 09 00 <sup>S</sup> |    |          | 6045  | 54.4  |
| Tiksi          | eP   | 23                 |    |          | 6450  | 58.1  |
| Yakoutsk       | iP   | 27                 |    |          | 6500  | 58.5  |
| Lanto          | P    | 30.4               |    |          | 6530  | 58.8  |
| Mould Bay      | eP   | 11 09.0            |    |          | 8280  | 74.5  |
| Gilmore Creek  | eP   | 12 04.8            |    |          | 9400  | 84.6  |
| College        | eP   | 05.0               |    |          | 9410  | 84.7  |
| South Pole     | PKP  | 18 18.9            |    |          | 13245 | 119.2 |
| La Paz         | ePKP | 33                 |    |          | 13825 | 124.4 |
| Penas          | ePKP | 33                 |    |          | 13850 | 124.8 |

Inscrit à Helwan - Tabriz.

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Région de la Nouvelle Bretagne

H = 12h.19mn19s.; M. = 4.5(Rabaul)

|                |    |                       |    |          |     |     |
|----------------|----|-----------------------|----|----------|-----|-----|
| Keravat        | iP | 12 19 32 <sup>D</sup> | iS | 12 19 49 | 145 | 1.3 |
| Wanliss Street | iP | 34.2 <sup>D</sup>     |    |          |     |     |
| Rabaul         | iP | 34.3                  | iS | 53.3     | 145 | 1.3 |
| Sulphur        | iP | 34.5                  |    |          |     |     |
| Rabalanakaa    | iP | 34.5                  |    |          |     |     |

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Région des Iles Loyauté

22°8 S ; 171°4 E ; h = 33<sup>km</sup> ; H = 12<sup>h</sup>.45<sup>mn</sup>05<sup>s</sup>. (CGS)  
 23°5 S ; 175°0 E ; H = 12<sup>h</sup>.45<sup>mn</sup>08<sup>s</sup>. (Nouméa)

M. = 4.5 (Nouméa)

|                 |    |       |       |    |       |         |      |      |
|-----------------|----|-------|-------|----|-------|---------|------|------|
| Ouanaham        | IP | 12 46 | 07.7C | IS | 12 46 | 53.5    | 490  | 4.4  |
| Nouméa          | IP |       | 14.4C | IS |       | 47 05.5 | 510  | 4.6  |
| Port Vila       | IP |       | 30.9C |    |       |         | 645  | 5.8  |
| Koumac          | IP |       | 48.4C | IS | 48 07 |         | 780  | 7.0  |
| Lonorore        | IP |       | 56.8D |    |       |         | 830  | 7.5  |
| Luganville      | eP | 47    | 03.8  |    |       |         | 930  | 8.3  |
| Charters Towers | IP | 50    | 15    |    |       |         | 2620 | 23.6 |
| South Pole      | eP | 55    | 58.2  |    |       |         | 7480 | 87.3 |

inscrit à Wichita M.

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Région de Vrancea (Roumanie)

H = 13<sup>h</sup>.10<sup>mn</sup>48.5<sup>s</sup>. (Bucuresti)

|            |    |       |      |   |       |      |  |  |
|------------|----|-------|------|---|-------|------|--|--|
| Vrincioaia | eP | 13 10 | 58.8 | S | 13 11 | 05.6 |  |  |
| Foczani    | P  | 11    | 00.9 | S |       | 10   |  |  |
| Campulung  | P  |       | 16.1 | S |       | 35.2 |  |  |
| Iasy       | P  |       | 22.4 | e |       | 45.4 |  |  |
| Bucuresti  | S  |       | 34   |   |       |      |  |  |
| Bacau      | P  | 12 13 | 7    | S | 12 28 | 2    |  |  |

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Région de la Nouvelle Bretagne

H = 13<sup>h</sup>.16<sup>mn</sup>43<sup>s</sup>. ; M. = 4.7 (Rabaul)

|                |    |       |      |    |       |      |     |     |
|----------------|----|-------|------|----|-------|------|-----|-----|
| Rabalanakaia   | eP | 13 17 | 21.5 |    |       |      |     |     |
| Keravat        | eP |       | 22   | IS | 13 17 | 53.5 | 280 | 2.5 |
| Rabaul         | IP |       | 22.0 | IS |       | 52.0 | 255 | 2.3 |
| Wanliss Street | eP |       | 22   |    |       |      |     |     |
| Port Moresby   | eP | 18 46 |      | eS | 20 15 |      |     |     |

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Région Ouest de l'Idaho

43°9 N ; 114°3 W ; h = 33<sup>km</sup> ; H = 14<sup>h</sup>.09<sup>mn</sup>44<sup>s</sup>. (CGS)

M. = 3.6 (Uinta Basin - CGS)

|         |    |       |                   |    |       |      |     |     |
|---------|----|-------|-------------------|----|-------|------|-----|-----|
| Blue M. | IP | 14 10 | 21.6 <sup>D</sup> |    |       |      | 270 | 2.4 |
| Butte   | eP |       | 22.2              | eL | 14 10 | 58.1 | 270 | 2.4 |



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|              |    |       |      |     |       |      |     |     |
|--------------|----|-------|------|-----|-------|------|-----|-----|
| Bozeman SSS  | eP | 14 10 | 24.5 | iL  | 14 11 | 01.9 | 280 | 2.5 |
| Dugway       | eP |       | 42.9 | eL  |       | 45.2 | 430 | 3.9 |
| Unionville   | eP |       | 51.5 | i   | 10    | 59.2 | 500 | 4.5 |
| Eureka       | eP |       | 53.4 |     |       |      | 510 | 4.6 |
| Uinta Basin  | eP | 11    | 05.8 | eLG | 12    | 15.7 | 555 | 5.0 |
| Hungry Horse | eP |       | 09.2 |     |       |      | 500 | 4.5 |

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Vallée de Lualaba (Congo)

7°0' S ; 26°6' E ; H = 16h.42<sup>mn</sup>05s. ; M. = 3.4 (Bulawayo)

|             |       |       |       |     |       |       |  |  |
|-------------|-------|-------|-------|-----|-------|-------|--|--|
| Butare      | i(Sn) | 16 43 | 29.4  |     |       |       |  |  |
| Broken Hill | eP    |       | (55)  | eSn | 16 45 | 16    |  |  |
| Karoi       | eP    | 44    | 33    | eS  |       | 46 20 |  |  |
| Nairobi     | eP    |       | 47 31 |     |       |       |  |  |
| Bangui      | eS    | 48    | 02.0  | LR  | 49    | 31.7  |  |  |

Inscrit à Bulawayo

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Baie de Tokyo (Japon)

35°40' N ; 139°59' E ; h = 40<sup>km</sup> ; H = 17h.37<sup>mn</sup>39.9s. (JMA)

M. = 3.2 (JMA)

|            |    |       |      |    |       |      |     |     |
|------------|----|-------|------|----|-------|------|-----|-----|
| Tokyo      | iP | 17 37 | 47.3 | iS | 17 37 | 52.1 | 20  | 0.2 |
| Yokohama   | eP |       | 50.1 | iS |       | 56.1 | 39  | 0.4 |
| Kakioka    | P  |       | 52.5 | S  | 38    | 00.9 | 65  | 0.6 |
| Matsushiro | iP | 38    | 07.7 | S  |       | 31   | 187 | 1.7 |

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Au large de la cote Sud du Mexique.

16°40' N ; 100°22' W ; H = 19h.23<sup>mn</sup>52s. (Tacubaya)

|                   |     |       |                   |     |       |      |     |     |
|-------------------|-----|-------|-------------------|-----|-------|------|-----|-----|
| Presa Infiernillo | iP  | 19 29 | 31.5 <sup>D</sup> | iS  | 19 30 | 00   | 255 | 2.3 |
| Nat. Univ. Mexico | iP  |       | 40                | iS  |       | 15   | 315 | 2.8 |
| Tacubaya          | iPn |       | 41                | iSn |       | 16   | 315 | 2.8 |
| Vista Hermosa     | iP  |       | 48                |     |       |      | 390 | 3.5 |
| Presa B. Juarez   | iP  | 30    | 06.5              | iS  | 31    | 04.6 | 531 | 4.8 |
| Leon              | iP  |       | 22                |     |       |      | 510 | 4.6 |
| Vera Cruz         | iS  | 31    | 06                |     |       |      | 535 | 4.8 |

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Région de Vrancea (Roumanie)

45°7 N ; 26°3/4 E ; h = 60 ± 13 km ; H = 19h.37mn43s. (BCIS)  
H = 19h.37mn42s. (Bucuresti)

|               |     |            |    |            |  |  |
|---------------|-----|------------|----|------------|--|--|
| Vrancioaia    | P   | 19 37 50.3 | S  | 19 37 57.0 |  |  |
| Focșani       | P   | 53.3       | S  | 38 01.8    |  |  |
| Bucuresti     | P   | 38 06.6    | S  | 25.6       |  |  |
| Campulung     | P   | 07.7       | e  | 25.6       |  |  |
| Iasi          | P   | 14.3       | S  | 38         |  |  |
| Istanbul Kand | iPn | 54.6       | IS | 39 46.6    |  |  |
| Medzica       | eP  | 39 08.8    |    |            |  |  |
| Vasmijaerwi   | iP  | 41 09      | IS | 43 47.2    |  |  |
| Uppsala       | eP  | 13         |    |            |  |  |
| Kajaani       | eP  | 53         | IS | 45 09.0    |  |  |
| Oulu          | eP  | 42 09      |    |            |  |  |
| Sodankylä     | eP  | 33         | eS | 46 20      |  |  |

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Province Jujuy (Argentine)

22°6 S ; 66°6 W ; h = 237 km ; H = 22h.45mn08.5s. (CGS)

M. = 5.8 (Cumberland Pl.) ; 5.7 (Berkeley) ; 5.5 (Oroville - Albuquerque - La Palma) ; 5.4 (Caracas) ; 5.3 (CGS - Presa B. Juarez - South Pole - Blue M. - Frobisher - Bangui) ; 5.2 (Dugway - Tonto Forest - Tucson) ; 5.1 (Uinta Basin - Wichita M.)

|                  |    |             |      |            |      |      |
|------------------|----|-------------|------|------------|------|------|
| Antofagasta      | iP | 22 46 00.5C | IS   | 22 46 44.0 |      |      |
| Cochabamba       | iP | 27.0D       |      |            |      |      |
| La Paz           | iP | 40.8C       | S    | 47 38.5    | 690  | 6.2  |
| Penas            | iP | 44.5        | S    | 42.0       | 730  | 6.6  |
| Arequipa         | iP | 54.6        | IS   | 48 18.7    | 745  | 7.7  |
| Peldehue         | eP | 47 37.0     | eS   | 49 32      |      |      |
| Santiago         | eP | (41)        |      |            |      |      |
| Huancayo         | iP | 48 11.7     | IS   | 50 46.0    | 1490 | 13.4 |
| Nana             | eP | 21.0        |      |            |      |      |
| Quito            | P  | 50 25.1D    | S    | 54 37      |      |      |
| Caracas          | iP | 51 22.0C    | IS   | 56 20      |      |      |
| Trinidad         | eP | 27.6        |      |            |      |      |
| La Palma         | iP | 52 45.5D    |      |            | 3720 | 33.5 |
| Presa B. Juarez  | eP | 53 26.3     |      |            | 4770 | 42.9 |
| Vista Hermosa    | iP | 37          | e(S) | 23 00 32   | 5330 | 48.0 |
| Presa Infernillo | iP | 54 05D      |      |            |      |      |
| Nat.Univ.Mexico  | eP | 08          | e    | 03 30      |      |      |
| Cumberland Pl.   | iP | 55.2        |      |            | 6730 | 60.6 |
| Oak Ridge        | iP | 58.3        |      |            | 6730 | 60.6 |
| Wichita M.       | eP | 55 20.8     | eS   | 42         | 7180 | 64.6 |
| Tulsa            | iP | 21.5D       |      |            | 7170 | 64.5 |

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|                 |        |       |       |        |       |       |             |
|-----------------|--------|-------|-------|--------|-------|-------|-------------|
| Lubbock         | eP     | 22 55 | 27.0  |        |       | 724.5 | 65.2        |
| Lamto           | P      |       | 35.3  |        |       | 7400  | 66.6        |
| Lawrence        | eP     |       | 35.7  |        |       | 7430  | 66.9        |
| South Pole      | 1P     |       | 39.8  |        |       | 7500  | 67.5        |
| Brébeuf         | 1P     |       | 44.0D |        |       | 7570  | 68.1        |
| Ottawa          | eP     |       | 45.0  |        |       | 7580  | 68.2        |
| Dubuque         | P      |       | 48.0  |        |       | 7610  | 68.5        |
| Albuquerque     | 1P     |       | 48.0D | e      | 22 56 | 48.5  | 7620 68.6   |
| Tucson          | eP     |       | 50.2  | e      |       | 47.0  | 7680 69.1   |
| Tonto Forest    | eP     | 56    | 01.7  | ePP    |       | 58.2  | 7870 70.8   |
| Uinta Basin     | eP     |       | 21.1  | ePP    | 57    | 22    | 8255 74.3   |
| Pasadena        | 1P     |       | 25.0  | eS     | 23 35 | 54.0  | 8310 74.8   |
| Sa da Bandeira  | 1P     |       | 28.2  |        |       |       | 8390 75.5   |
| Dugway          | eP     |       | 30.5  |        |       |       | 8430 75.9   |
| Syowa           | 1(P)   |       | 35.0  |        |       |       | 8300 74.7   |
| Eureka          | 1P     |       | 38.1  | e      | 22 57 | 35.7  | 8570 77.1   |
| Priest          | eP     |       | 41.0D |        |       |       | 8620 77.8   |
| Jamestown       | eP     |       | 46.1D |        |       |       | 8745 78.7   |
| Mt Hamilton     | eP     |       | 48.5D |        |       |       | 8780 79.0   |
| Averces         | e1P    |       | 50    |        |       |       | 8800 79.2   |
| Berkeley        | eP     |       | 52.5  |        |       |       | 8855 79.7   |
| Butte           | eP     |       | 53.9D |        |       |       | 8890 80.0   |
| Oroville        | 1P     |       | 55.3  | i      |       | 53.2  | 8920 80.3   |
| Mineral         | eP     |       | 57.7D |        |       |       |             |
| Ifrane          | P      |       | 59    | e      |       | 34    | 8990 80.8   |
| Blue M.         | eP     | 57    | 00.7  |        |       |       | 9055 81.5   |
| Hungry Horse    | eP     |       | 05.5  | e      | 58    | 07.8  | 9155 82.4   |
| Newport         | eP     |       | 12.0  |        |       |       | 9310 83.8   |
| Malaga          | eP     |       | 12    |        |       |       |             |
| Tamanrasset     | 1P     |       | 13C   | e      |       | 08    |             |
| Nordman         | eP     |       | 13.0  |        |       |       | 9330 84.0   |
| Toledo          | 1P     |       | 20.2  | eS     | 07    | 28    |             |
| Edmonton        | eP     |       | 21.0D |        |       |       | 9520 85.7   |
| Frobisher       | eP     |       | 23.0  |        |       |       | 9570 86.1   |
| Bulawayo        | 1P     |       | 29C   | i(SKS) | 06    | 57    |             |
| Bangui          | P      |       | 30.3  | iS     | 07    | 35.8  | 9890 87.2   |
| Changalane      | eP     |       | 32.0  | e      | 57    | 31.3  | 9710 87.6   |
| Karoi           | 1P     |       | 40.1  | 1DP    | 58    | 37    |             |
| Broken Hill     | 1P     |       | 41C   | eSKS   | 23 07 | 55    |             |
| Butare          | e1P    | 58    | 07.6  |        |       |       |             |
| College         | PKP    | 23 03 | 06.5  |        |       |       | 11845 106.6 |
| Chiraz          | e1PKP  |       | 43    |        |       |       | 13970 125.7 |
| Charters Towers | e(PKP) |       | 46    |        |       |       |             |
| Warramunga      | ePKP   |       | 56.5  | i      |       | 03.5  |             |
| Qietta          | ePKP   | 04    | 00.0  |        |       |       |             |
| Warsak          | ePKP   |       | 08.4  |        |       |       |             |
| New Delhi       | PKP    |       | 23.6  |        |       |       | 16320 146.9 |
| Lembang         | PKP    |       | 34.5  |        |       |       | 16690 150.2 |
| Qilan Bator     | 1PKP   |       | 37    |        |       |       |             |
| Esen Boulak     | ePKP   |       | 38    |        |       |       |             |
| Matsushiro      | PKP    |       | 41    |        |       |       |             |

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I. 3 janvier  
Nord de la mer Egée

40°5'N, 25°5'E H = 00h12<sup>m</sup>43<sup>s</sup> (Athènes)  
M = 3.9 (Athènes)  
Paraskevi 1Pn 00 13 08.1C 1Sg 00 13 26 140 1.3  
Athènes ePn 31.5 320 2.9

II. 3 janvier  
Iles Andreanov (Aléoutiennes)

51°8'N, 173°3'W h = 39km H = 02h24<sup>m</sup>54.1<sup>s</sup> (CGS)  
51°5'N, 173°2'W H = 02h24<sup>m</sup>51<sup>s</sup> (URSS)

M = 5.5 (Shillong), 5.2 (Nurmijaervi), 5.0 (Kevo), 4.8  
(Wichita M), 4.7 (Uinta Basin), 4.6 (CGS, Cumberland Pl),  
4.5 (Tonto Forest), 4.4 (Eureka, Dugway), 4.3 (Longmire),  
4.1 (College), 4.0 (Blue M).

|                     |    |            |     |            |       |      |
|---------------------|----|------------|-----|------------|-------|------|
| Adak                | 1P | 02 25 27.5 | 1S  | 02 25 52.7 | 220   | 2.0  |
| Big Mountain        | P  | 28 01      |     |            | 1410  | 12.7 |
| Sparrevohn          | eP | 0 9        |     |            | 1490  | 13.4 |
| Mts Sheep Creeke    | eP | 54         |     |            | 1920  | 17.3 |
| Tanana              | eP | 58         |     |            | 1920  | 17.3 |
| Pedro Dome          | eP | 29 05      |     |            | 2080  | 18.7 |
| College             | eP | 08         |     |            | 2055  | 18.5 |
| Gilmore Creek       | eP | 09.5       |     |            | 2080  | 18.7 |
| Black Rapids        | eP | 10         |     |            | 2065  | 18.6 |
| Youjno Sakhalinsker | eP | 30 49      |     |            |       |      |
| Tiksi               | 1P | 31 17C     |     |            |       |      |
| Mould Bay           | eP | 18         |     |            | 3545  | 31.9 |
| Longmire            | 1P | 33         |     |            | 37 10 | 33.4 |
| Nordman             | eP | 48         |     |            | 3935  | 35.4 |
| Newport             | eP | 49         |     |            | 3945  | 35.5 |
| Edmonton            | eP | 50         |     |            | 3955  | 35.6 |
| Mt Tsukuba          | eP | 54.1       |     |            | 4035  | 36.3 |
| Blue M.             | eP | 32 01.7    |     |            | 4120  | 37.1 |
| Mineral             | eP | 02D        |     |            |       |      |
| Matsushiro          | P  | 02         |     |            |       |      |
| Hungry Horse        | eP | 04.5       | e   | 02 34 36.4 | 4145  | 37.3 |
| Mt Hamilton         | eP | 05         |     |            |       |      |
| Oroville            | eP | 05         |     |            | 4155  | 37.4 |
| Vladivostok         | eP | 08         |     |            |       |      |
| Resolute            | eP | 0 9        |     |            | 4210  | 37.9 |
| Jamestown           | eP | 19.5C      |     |            | 4345  | 39.1 |
| Bodajbo             | 1P | 28.5       |     |            |       |      |
| Oshiyama            | eP | 31.5       |     | 02 32 44.1 | 4510  | 40.6 |
| Eureka              | 1P | 35         |     |            | 4545  | 40.9 |
| Dugway              | eP | 47.5       |     |            | 47 10 | 42.4 |
| Goldstone           | P  | 51         | i   | 55         | 4780  | 43.0 |
| Uinta Basin         | eP | 33 02.9    |     |            | 4920  | 44.3 |
| Kheis               | eP | 05         |     |            |       |      |
| Tonto Forest        | eP | 25.2       | ePP | 35 0 9.8   | 5235  | 47.1 |
| Tucson              | eP | 35         |     |            | 5410  | 48.7 |

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|                 |      |            |      |            |           |
|-----------------|------|------------|------|------------|-----------|
| Albuquerque     | eP   | 02 33 44.5 |      | 5510       | 49.3      |
| Wichita M.      | eP   | 34 20.3    |      | 6065       | 54.6      |
| Kevo            | iP   | 43         |      | 6420       | 57.8      |
| Sodankylae      | eP   | 58         |      |            |           |
| Kiruna          | eP   | 35 01      |      |            |           |
| Brébeuf         | iP   | 04.7       |      | 6780       | 61.0      |
| Cumberland pl   | eP   | 08.9       |      | 6855       | 61.7      |
| Oulu            | eP   | 15         |      |            |           |
| Sverdlovsk      | eP   | 19         |      |            |           |
| Kajaani         | iP   | 21.4       | 1    | 92 35 57.4 | 7035 63.3 |
| Umeå            | iP   | 38.3       |      |            |           |
| Nurmijaervi     | iP   | 44         |      | 36 12      | 7455 67.1 |
| Talgar          | iP   | 47         |      |            |           |
| Uddeholm        | iP   | 52.5       |      |            |           |
| Uppsala         | iP   | 53.9       |      |            |           |
| Frounze         | iP   | 57.5       |      |            |           |
| Shillong        | iP   | 38 21.7    |      | 8135       | 73.2      |
| Garm            | eP   | 27         |      |            |           |
| Chittagong      | eP   | 37         |      |            |           |
| Collm           | eP   | 44         |      | 8565       | 77.1      |
| Moxa            | eP   | 48         | e    | 37 01.5    | 8645 77.8 |
| Pruhonice       | iP   | 52.5       |      | 8700       | 78.3      |
| Niedzica        | eP   | 53         | ePcP | 10         |           |
| Erlangen        | P    | 54.9       | PcP  | 08.1       |           |
| Ujgorod         | eP   | 56         |      |            |           |
| Kasp rské HO ly | eP   | 58         |      | 8800       | 79.2      |
| Bratislava      | eP   | 37 00      |      | 8 890      | 80.0      |
| Sommée Lormes   | eP   | 08         |      | 9035       | 81.3      |
| St Saulge       | eP   | 09         |      | 9045       | 81.4      |
| Les Buteaux     | eP   | 09.4       |      |            |           |
| Charters Towers | e(P) | 10         |      |            |           |
| Toulx Ste Croix | eP   | 12.8       |      |            |           |
| Quetta          | eP   | 16.5C      |      | 9200       | 82.8      |
| Tabriz          | eP   | 23         |      |            |           |
| Téhéran         | eP   | 23         |      | 9380       | 84.4      |
| Mashad          | eP   | 39 34      |      |            |           |
| Bangui          | PKP  | 43 46.2    |      | 13880      | 123.1     |
| Karoi           | ePKP | 44 20      | e    | 44 33      |           |
| Bilawayo        | iPKP | 25C        | i    | 38         |           |
| La Paz          | ePKP | 27.5       |      |            |           |
| Windhoek        | PKP  | 45         |      | 16835      | 149.7     |

inscrit à Penas.

III. 3 janvier  
Près de la cote Nord de la Nouvelle Guinée

4°5S, 145°1E h = 33km H = 03105m 47.7S (CGS)

M = 5.8 (Rabaul), 5.1 (College), 4.9 (Eureka), 4.8 (CGS), 4.7 (Blue M), 4.4 (Tonto Forest)

|              |     |            |   |            |     |
|--------------|-----|------------|---|------------|-----|
| Goroka       | iP  | 03 06 13.5 |   | 180        | 1.6 |
| Lae          | eP  | 34         |   | 310        | 2.8 |
| Esa'Ala      | eIP | 38.5       | 1 | 03 08 14.5 |     |
| Port Moresby | eP  | 07 05.5    |   | 590        | 5.3 |

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|                 |       |             |       |          |       |       |
|-----------------|-------|-------------|-------|----------|-------|-------|
| Rabaul          | IP    | 03 07 28.5C | 1 (S) | 03 09 04 | 780   | 7.0   |
| Keravat         | IP    | 28.5D       | 1     | 07 35.5  | 765   | 6.9   |
| Rabal anakaia   | EP    | 32.5D       |       |          | 780   | 7.0   |
| Honiara         | EP    | 09 24       | eS    | 12 23    | 1720  | 15.5  |
| Charters Towers | IP    | 27          | 1S    | 22       | 1720  | 15.5  |
| Darwin          | EP    | 34          | eS    | 31       | 1800  | 16.2  |
| Warramunga      | EP    | 10 04       |       |          | 2065  | 18.6  |
| Davao           | EP    | 46          | 1S    | 15 00    | 2520  | 22.7  |
| Brisbane        | IP    | 58.8        | 1S    | 18       | 2655  | 23.9  |
| Koumac          | IP    | 11 06.7C    |       |          | 2720  | 24.5  |
| Luganville      | IP    | 09 4C       |       |          | 2690  | 24.2  |
| Lonorore        | IP    | 23.9C       |       |          | 2810  | 25.3  |
| Port Vila       | IP    | 27.1C       |       |          | 2910  | 26.2  |
| Puanaham        | IP    | 29.3C       |       |          | 2990  | 26.9  |
| Nouméa          | IP    | 34.1C       |       |          | 3020  | 27.2  |
| Canberra        | EP    | 12 04       | eS    | 17 09    | 3435  | 30.9  |
| Toolangi        | EP    | 21          | 1     | 12 30    | 3655  | 32.9  |
| Meekatharra     | IP    | 27.3C       |       |          |       |       |
| Kalgoorlie      | IP    | 34.2        |       |          | 3820  | 34.4  |
| Mundaring       | IP    | 13 09 4     |       |          | 4280  | 38.5  |
| Matsushiro      | P     | 33          |       |          |       |       |
| Hong Kong       | EP    | 34          | eS    | 19 31    | 4480  | 40.3  |
| Shillong        | EP    | 15 44.3     |       |          | 6635  | 59.7  |
| Quetta          | EP    | 18 06.6     |       |          | 9120  | 82.1  |
| College         | IP    | 18.8        |       |          | 9390  | 84.5  |
| Gilmore Creek   | EP    | 19.7        |       |          | 9410  | 84.7  |
| Pedro Dome      | EP    | 27          |       |          | 9410  | 84.7  |
| Woody           | P     | 19 20       | e     | 29       | 10835 | 97.5  |
| Blue M.         | EP    | 24.8        |       |          | 10945 | 98.5  |
| Eureka          | EP    | 30.9        |       |          | 11080 | 99.7  |
| Tonto Forest    | EP    | 53          |       |          | 11520 | 103.7 |
| Uinta Basin     | EP    | 20 02.9     |       |          | 11610 | 104.5 |
| Bangui          | PKP   | 24 57.3     |       |          | 14080 | 126.7 |
| La Paz          | ePKP  | 25 10       | ePKP  | 25 20.7  | 15680 | 141.1 |
| Penas           | ePKP  | 10.4        |       |          | 15855 | 140.9 |
| Cochabamba      | ePKP  | 25.8        |       |          |       |       |
| San Juan        | PKP   | 35          |       |          | 16280 | 146.5 |
| Lamto           | (PKP) | 44.3        |       |          | 16700 | 150.3 |

Inscrit à Wichita M.

14. 3 janvier

Rift médian Nord Atlantique au NE de Jan Mayen

Prémonitoire du séisme du 3 janvier à 04h09m40s.

73°1N, 5°4E h = 33km H = 04h09m19s (BCIS)

|            |    |          |  |  |      |     |
|------------|----|----------|--|--|------|-----|
| Kiruna     | EP | 04 11 09 |  |  | 810  | 7.3 |
| Kevo       | EP | 17       |  |  | 850  | 7.6 |
| Sodankylae | EP | 30       |  |  | 1015 | 9.2 |

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|                 |    |          |      |      |
|-----------------|----|----------|------|------|
| Skalstugan      | ep | 04 11 37 | 1100 | 9.9  |
| Oulu            | ep | 52       | 1200 | 10.8 |
| Umeå            | 1P | 54.0     | 1195 | 10.8 |
| Akureyri        | ep | 58       | 1225 | 11.0 |
| Kajaani         | ep | 12 0 9   | 1340 | 12.1 |
| Kongsberg       | ep | 38       | 1510 | 13.6 |
| Uppsala         | 1P | 40.7     | 1570 | 14.1 |
| Nurmijaervi     | 1P | 40.8     | 1625 | 14.6 |
| Durham          | 1P | 13 36    | 2070 | 18.6 |
| Collmberg       | ep | 14 11    | 2455 | 22.1 |
| Bensberg        | ep | 12       | 2470 | 22.2 |
| Moxa            | P  | 18.5     | 2520 | 22.7 |
| Pruhonice       | ep | 27       | 2615 | 23.5 |
| Grafenberg      | ep | 27.3     | 2625 | 23.6 |
| Raciборz        | ep | 29       | 2640 | 23.8 |
| Krakow          | ep | 33       | 2665 | 24.0 |
| Kasperské Hory  | ep | 35       | 2705 | 24.3 |
| Haudompre       | ep | 40.8     | 2800 | 25.2 |
| Niedzica        | ep | 41       | 2740 | 24.7 |
| Bratislava      | ep | 45       | 2840 | 25.6 |
| Champ du Feu    | ep | 46       | 2755 | 24.8 |
| Basel           | ep | 47       | 2850 | 25.7 |
| Sommée Lormes   | ep | 49.5     | 2880 | 25.9 |
| St Saulge       | ep | 51.3     | 2900 | 26.1 |
| Les Buteaux     | ep | 52.2     | 2910 | 26.2 |
| Toulx Ste Croix | ep | 15 00.6  | 2995 | 26.9 |
| Tamanrasset     | ep | 18 12    | 5595 | 50.3 |
| Shiraz          |    | 14       | 5540 | 49.8 |
| Warsak          |    | 14.1     | 5635 | 50.7 |
| Mineral         |    | 1 9 33.4 | 6795 | 61.2 |
| Bangui          |    | 20 22.2  | 7680 | 69.1 |

V. 3 janvier

Rift médian Nord Atlantique au N.E. de Jan Mayen

|             | 72° N.<br>72° N. | 5° 6' E.<br>6° E. | h = 33 km<br>h = 33 km | H = 04h09 <sup>m</sup> 40 <sup>s</sup> (BCIS)<br>H = 04h09 <sup>m</sup> 34.9 <sup>s</sup> (CGS) |       |  |
|-------------|------------------|-------------------|------------------------|---|-------|--|
| Kingsbay    | ep               | 04 11 13.5        |                        | 695   | 6.2   |  |
| Kiruna      | ep               | 22.7              |                        | 770   | 7.1   |  |
| Kevo        | ep               | 27                |                        | 835   | 7.5   |  |
| Sodankylae  | ep               | 49                |                        | 1000  | 9.0   |  |
| Skalstugan  | ep               | 56                |                        | 1075  | 9.7   |  |
| Umeå        | ep               | 12 0 9            |                        | 1175  | 10.6  |  |
| Oulu        | 1P               | 11. 9             |                        | 1180  | 10.6  |  |
| Lillehammer | 1P               | 27                |                        | 1340  | 12.1  |  |
| Kajaani     | 1P               | 2 9 4             |                        | 1320  | 11. 9 |  |
| Uddeh dm    | 1P               | 43.8              |                        | 1470  | 13.2  |  |
| Uppsala     | ep               | 52. 9             |                        | 1545  | 13. 9 |  |
| Nurmijaervi | 1P               | 13 00.8           |                        | 1605  | 14.4  |  |
| Goteborg    | 1P               | 14.3              |                        | 1720  | 15.5  |  |
| Karlskrona  | ep               | 41                |                        | 1920  | 17. 3 |  |
| Praha       | ep               | 14 50             |                        | 2580  | 23.2  |  |
| Folinigre   | ep               | 55.5              |                        | 2710  | 24.4  |  |
| Karlsru he  | ep               | 56                |                        | 2665  | 24.0  |  |
| Buhlerhohe  | ep               | 56                |                        | 2705  | 24.3  |  |
| St Sauveur  | ep               | 57.5              |                        | 2725  | 24.5  |  |

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|                  |    |          |      |      |
|------------------|----|----------|------|------|
| Wien             | EP | 04 15 01 | 2800 | 25.2 |
| Gorron           | EP | 01.1     | 2745 | 24.7 |
| Welschbruch      | IP | 03.5     | 2730 | 24.6 |
| Furstenfeldbruck | EP | 04       | 2770 | 24.9 |
| Strasbourg       | EP | 04       | 2715 | 24.4 |
| Le Pertre        | EP | 04.2     | 2790 | 25.1 |
| Bratislava       | EP | 06       | 2815 | 25.4 |
| Besançon         | EP | 11       | 2860 | 25.7 |
| Budapest         | EP | 15       | 2915 | 26.2 |
| Roselend         | EP | 21       | 3035 | 27.3 |
| Lanslevillard    | EP | 28       | 3080 | 27.7 |
| Clermont         | IP | 31       | 3025 | 27.2 |
| Sofia            | EP | 16 05.2  | 3495 | 31.5 |
| Toledo           | EP | 22       | 3715 | 33.4 |
| Istanbul Kand.   | IP | 27       | 3765 | 33.9 |
| Tabriz           | EP | 17 19    | 4470 | 40.2 |
| Pedro Dome       | EP | 24       | 4575 | 41.2 |
| Gilmore Creek    | EP | 24.7     | 4580 | 41.2 |
| College          | IP | 28.1     | 4595 | 41.4 |
| Ksara            | EP | 35       | 4680 | 42.1 |
| Blacks Rapids    | IP | 35.4     | 4725 | 42.5 |
| Téhéran          | EP | 38       | 4850 | 43.7 |
| Brébeuf          | EP | 44       | 4900 | 44.1 |
| Kermanshah       | EP | 46       | 4885 | 44.0 |
| Ottawa           | EP | 50       | 4980 | 44.8 |
| Mts Sheep Creek  | IP | 50.2     | 4920 | 44.3 |
| Palmer           | EP | 51.3     | 4965 | 44.7 |
| Sparrevdm        | IP | 18 01.3  | 5075 | 45.7 |
| Edmonton         | EP | 11       | 5265 | 47.4 |
| Hungry Horse     | EP | 47.1     | 5790 | 52.1 |
| Nordman          | IP | 50.9     | 5830 | 52.5 |
| Newport          | IP | 52.9     | 5875 | 52.9 |
| Quetta           | IP | 19 00.5  | 5895 | 53.1 |
| Butte            | EP | 01.9     | 6000 | 54.0 |
| Bozeman          | EP | 02.5     | 6020 | 54.2 |
| Longknife        | IP | 11.2     | 6140 | 55.3 |
| Blue Mts         | EP | 16.9     | 6240 | 56.1 |
| Cumberland Pl    | EP | 19.3     | 6305 | 56.7 |
| Flaming Gorge    | IP | 30.5     | 6455 | 58.1 |
| Salt Lake City   | EP | 35.4     | 6535 | 58.8 |
| Uinta Basin      | EP | 35.6     | 6520 | 58.7 |
| Dugway           | EP | 41       | 6620 | 59.6 |
| Wichita M.       | EP | 50.7     | 6800 | 61.2 |
| Eureka           | EP | 51       | 6775 | 61.0 |
| Oroville         | EP | 58.4     | 6900 | 62.1 |
| Albuquerque      | EP | 20 04    | 7005 | 63.0 |
| Jamestown        | P  | 06.1D    | 7045 | 63.4 |
| Berkeley         | P  | 11.3C    | 7095 | 63.9 |
| Mt Hamilton      | P  | 13.4D    | 7140 | 64.3 |
| San Luis Dam     | EP | 15       | 7160 | 64.4 |
| Tonto Forest     | EP | 16.8     | 7205 | 64.9 |
| Priest           | P  | 19.3     | 7245 | 65.2 |
| Goldstone        | P  | 20       | 7240 | 65.2 |



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|          |    |            |
|----------|----|------------|
| Tucson   | eP | 04 20 27.9 |
| Pasadena | iP | 28         |
| La Palma | eP | 21 36      |
| La Paz   | eP | 23 19.5    |
| Penas    | eP | 22.3       |

inscrit à Uccle, Istanbul Uti, Jérusalem, Vista Hermosa, Butare.

VI. 3 Janvier  
Sud du Panama

5°3N, 82°5W

h = 27km

H = 00h38m36.7s (CGS)

M = 5.0 (Wichita M), 4.9 (Albuquerque), 4.8 (Caracas), 4.6 (CGS, La Paz), 4.5 (Cumberland Pl, Uinta Basin, Eureka), 4.3 (Digway), 4.2 (Tonto Forest, Blue M).

|                   |     |            |      |            |      |      |
|-------------------|-----|------------|------|------------|------|------|
| Balboa Heights    | iP  | 06 39 46.2 | iS   | 06 40 38.6 | 510  | 4.6  |
| Quito             | P   | 40 17      |      |            | 755  | 6.8  |
| La Palma          | iP  | 41 16.2D   |      |            | 1220 | 11.0 |
| Caracas           | eIP | 42 27      | iS   | 45 28      | 1810 | 16.3 |
| Vista Hermosa     | iP  | 52         |      |            |      |      |
| Huancayo          | eP  | 55         |      |            | 2080 | 18.7 |
| Tacubaya          | eP  | 43 25      |      |            |      |      |
| Nat. Univ. Mexico | eP  | 26.5       |      |            |      |      |
| Presa Infiernillo | ePP | 41         |      |            |      |      |
| Arequipa          | eP  | 53.1       |      |            | 2700 | 24.3 |
| Penas             | eP  | 44 05.4    | S    | 48 30      | 2845 | 25.6 |
| La Paz            | P   | 10.8       | e    | 45 27      | 2890 | 26.0 |
| Cochabamba        | eP  | 22.0       |      |            |      |      |
| Cumberland Pl.    | eP  | 46.9       |      |            | 3355 | 30.2 |
| Wichita M.        | eP  | 45 07.5    | e(S) | 50 38      | 3645 | 32.8 |
| Albuquerque       | eP  | 42.5       | e    | 55         | 4090 | 36.8 |
| Tucson            | eP  | 52         |      |            | 4180 | 37.6 |
| Tonto Forest      | eP  | 46 08.4    | e(S) | 52 22      | 4355 | 39.2 |
| Uinta Basin       | eP  | 31.8       | e(S) | 53 11      | 4720 | 42.5 |
| Boulder City      | eP  | 33.3       |      |            | 4735 | 42.6 |
| Pasadena          | eP  | 43         |      |            | 4855 | 43.7 |
| Dugway            | eP  | 45.8       |      |            | 4900 | 44.1 |
| Eureka            | iP  | 56.2       |      |            | 5045 | 45.4 |
| Butte             | eP  | 47 18.4    |      |            | 5355 | 48.2 |
| Oroville          | iP  | 23.7       |      |            | 5435 | 48.9 |
| Blue M.           | eP  | 28         |      |            | 5520 | 49.7 |
| Hungry Horse      | eP  | 35.5       |      |            | 5620 | 50.6 |
| Edmonton          | eP  | 59         |      |            | 6000 | 54.0 |
| Mould Bay         | eP  | 50 09      |      |            | 8190 | 73.7 |
| College           | eP  | 15.5       |      |            | 8320 | 74.9 |
| Gilmore Creek     | eP  | 16         |      |            | 8310 | 74.8 |
| Lamto             | P   | 31         |      |            | 8555 | 77.0 |

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VII.- 3 Janvier

Vallée de Lualaba (Congo)

7°0 S ; 26°6 E ; H = 07h.08<sup>mm</sup>13s. (Bilawayo)

M. = 3.3 (Bilawayo)

|             |     |           |     |          |
|-------------|-----|-----------|-----|----------|
| Broken Hill | ePr | 07 10(05) | eSn | 07 11 24 |
| Karol       | eP  | 40        | eS  | 12 23    |
| Nairobi     | eP  | 13 30     |     |          |
| Bangui      | eS  | 14 09.2   | LR  | 15 39.7  |

Inscrit à Bilawayo.

VIII.- 3 Janvier  
Mer de Norvège

72°2 N ; 1°2 E ; h = 33<sup>km</sup> ; H = 07h.37<sup>mm</sup>55.2s. (CGS)

72°3 N ; 1°0 E ; H = 07h.37<sup>mm</sup>50s. (BCIS)

72°2 N ; 2°2 E ; H = 07h.37<sup>mm</sup>56s. (URSS)

M. = 6.2 (Kajaani - Bangui) ; 5.7 (Coppermine) ; 5.5 (Uinta Basin) ;  
5.4 (Newport - Eureka - Kevo - Nurmijaerwi) ; 5.3 (CGS -  
Longmire - Blue M.) ; 5.2 (Wichita M.) ; 5.1 (Stuttgart - College -  
Cumberland Pl. - Dugway) ; 5.0 (Palmer - La Palma) ; 4.8 (Tonto  
Forest - Bensberg) ; 4.7 (Albuquerque) ; 4.6 (Bozeman SSS)

|              |      |       |                 |      |          |           |
|--------------|------|-------|-----------------|------|----------|-----------|
| Kingsbay     | 1P   | 07 39 | 38.9            |      | 810      | 7.3       |
| Kiruna       | 1P   |       | 46              |      | 880      | 7.9       |
| Kevo         | 1P   |       | 58              | 1S   | 07 41 34 | 965 8.7   |
| Skalstugan   | 1P   | 40    | 10.2            | 1S   | 52.1     | 1065 9.6  |
| Sodankylä    | eP   |       | 15              |      |          | 1110 10.0 |
| Station Nord | eP   |       | 18              |      |          | 1135 10.2 |
| Uméa         | 1P   |       | 28.7            | 1S   | 42 10.7  | 1220 11.0 |
| Oulu         | 1P   |       | 33.8            | 1S   | 34.5     | 1285 11.4 |
| Lillehammer  | 1P   |       | 41.9            |      |          | 1310 11.8 |
| Apatity      | 1P   |       | 44 <sup>D</sup> |      |          | 1320 11.9 |
| Kajaani      | eP   |       | 50              | 1    | 40 52.5  | 1410 12.7 |
| Uddeholm     | 1P   |       | 57.9            | 1(S) | 43 47.8  | 1455 13.1 |
| Uppsala      | 1P   | 41    | 08.1            |      |          | 1555 14.0 |
| Kongsberg    | e(P) |       | 10              |      |          | 1445 13.0 |
| Nurmijaerwi  | 1P   |       | 21              | eS   | 44 54    | 1655 14.9 |
| Kheis        | eP   |       | 25              |      |          | 1660 14.9 |
| Göteborg     | 1P   |       | 29              |      |          | 1690 15.2 |
| Durham       | 1(P) |       | 33              |      |          | 1950 17.5 |
| Pouлково     | 1P   |       | 47 <sup>D</sup> |      |          | 1880 16.9 |
| Karlskrona   | 1P   |       | 50.5            |      |          | 1910 17.2 |
| Bensberg     | eP   | 42    | 41.7            |      |          | 2390 21.5 |
| Collm        | 1P   |       | 43.4            |      |          | 2400 21.6 |
| Moxa         | eP   |       | 49              |      |          | 2455 22.1 |
| Moskva       | eP   |       | 52              |      |          | 2485 22.4 |

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|                  |      |                      |     |          |      |       |
|------------------|------|----------------------|-----|----------|------|-------|
| Praha            | eP   | 07 42 59             |     |          | 2555 | 23° 0 |
| Pruhonice        | eP   | 59                   |     |          | 2565 | 23° 1 |
| Erlangen         | e!P  | 59·7 <sup>D</sup>    |     |          | 2560 | 23° 0 |
| Folinigre        | eP   | 43 02·7              |     |          | 2610 | 23° 5 |
| Raciborz         | eP   | 03                   | e   | 07 43 49 | 2610 | 23° 5 |
| St. Sauveur      | eP   | 04·4                 |     |          | 2635 | 23° 7 |
| Krakow           | eP   | 06                   | ei  | 08       | 2640 | 23° 8 |
| Gorron           | eP   | 06·2                 |     |          | 2655 | 23° 9 |
| Stuttgart        | eP   | 06·6                 |     |          | 2645 | 23° 8 |
| Karlsruhe        | iP   | 07·2                 |     |          | 2610 | 23° 5 |
| Bühlerhohe       | iP   | 07·2                 |     |          | 2645 | 23° 8 |
| Strasbourg       | iP   | 08·5                 | eLM | 08 03 -- | 2655 | 23° 9 |
| Champ du Feu     | e!P  | 09·3                 |     |          | 2670 | 24° 0 |
| Welschbruch      | iP   | 09·6                 |     |          | 2670 | 24° 0 |
| Le Pertre        | e!P  | 09·8                 |     |          | 2695 | 24° 3 |
| Haudompré        | e!P  | 12·7                 |     |          | 2710 | 24° 4 |
| Niedzica         | eP   | 13                   | e   | 07 44 13 | 2715 | 24° 4 |
| Resolute         | eP   | 14·3 <sup>D</sup>    |     |          | 2745 | 24° 7 |
| Fürstenfeldbruck | e(P) | 15                   |     |          | 2720 | 24° 5 |
| Basel            | P    | 17                   |     |          | 2770 | 24° 9 |
| Garchy           | iP   | 17·3 <sup>D</sup>    |     |          | 2780 | 25° 0 |
| Sommée Lormes    | eP   | 17·5                 |     |          | 2780 | 25° 0 |
| Wien             | e!P  | 18·7                 |     |          | 2780 | 25° 0 |
| St. Saulge       | eP   | 19·1                 |     |          | 2800 | 25° 2 |
| Bratislava       | iP   | 19·5 <sup>C</sup>    | i   | 43 34·5  | 2800 | 25° 2 |
| Les Bateaux      | e!P  | 20·2                 |     |          | 2815 | 25° 3 |
| Oujgorod         | iP   | 23 <sup>C</sup>      |     |          | 2835 | 25° 5 |
| Srobarova        | eP   | 24                   |     |          | 2855 | 25° 7 |
| Clermont         | eP   | 25                   | i   | 53·5     | 2850 | 26° 5 |
| Frobisher        | eP   | 25                   |     |          | 2880 | 25° 9 |
| Roselend         | iP   | 26                   | e   | 33       | 2970 | 26° 7 |
| Toulx Ste Croix  | e!P  | 26·2                 |     |          | 2890 | 26° 0 |
| Lanslevillard    | eP   | 28                   | ei  | 32       | 3015 | 27° 1 |
| Vouglans         | eP   | 28                   | e   | 32       | 2885 | 26° 0 |
| Budapest         | eP   | 28                   |     |          | 2900 | 26° 1 |
| Monteynard       | eP   | 39                   |     |          | 3045 | 27° 4 |
| Mould Bay        | eP   | 43 41·2 <sup>D</sup> |     |          | 3065 | 27° 6 |
| Sverdlovsk       | eP   | 46 <sup>C</sup>      |     |          | 3140 | 28° 3 |
| Coppermine.      | eP   | 44 37·3 <sup>C</sup> |     |          | 3790 | 34° 1 |
| Bakouriani       | eP   | 45 03·2              |     |          | 4085 | 36° 8 |
| Tbilisi          | eP   | 07                   |     |          | 4120 | 37° 1 |
| Kirovabad        | eP   | 14                   |     |          | 4280 | 38° 5 |
| Tabriz           | eP   | 35                   |     |          | 4550 | 40° 9 |
| Yakoutsk         | eP   | 40                   |     |          | 4615 | 41° 5 |
| Gilmore Creek    | eP   | 41·9                 |     |          | 4610 | 41° 5 |
| College          | iP   | 43                   |     |          | 4620 | 41° 6 |
| Black Rapids     | iP   | 51·5                 |     |          | 4745 | 42° 7 |
| Brébeuf          | iP   | 52·5                 |     |          | 4765 | 42° 9 |
| Jérusalem        | iP   | 46 04·5              |     |          | 4920 | 44° 3 |
| Mts Sheep Creek  | iP   | 06·4                 |     |          | 4945 | 44° 5 |

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|                |      |                    |               |      |      |
|----------------|------|--------------------|---------------|------|------|
| Téhéran        | eP   | 07 46 07           |               | 4945 | 44.5 |
| Mashad         | e(P) | 08                 |               | 5145 | 46.3 |
| Palmer         | eP   | 08.7               |               | 5000 | 45.0 |
| Talgar         | eP   | 10                 |               | 5030 | 45.3 |
| Sparrevohn     | iP   | 18.5               |               | 5110 | 46.0 |
| Edmonton       | iP   | 24 <sup>D</sup>    |               | 5210 | 46.9 |
| Garm           | eP   | 26                 |               | 5225 | 47.0 |
| Big Mountain   | iP   | 20.7               |               | 5300 | 47.7 |
| Tamanrasset    | eP   | 46                 |               | 5500 | 49.5 |
| Chiraz         | eP   | 52.9               |               | 5610 | 50.5 |
| Hungry Horse   | eP   | 47 00 <sup>C</sup> |               | 5735 | 51.6 |
| Nordman        | iP   | 03.2               |               | 5780 | 52.0 |
| Newport        | iP   | 06                 |               | 5820 | 52.4 |
| Butte          | eP   | 13.1               |               | 5935 | 53.4 |
| Bozeman SSS    | eP   | 14.5               |               | 5955 | 53.6 |
| Quetta         | iP   | 22.3 <sup>D</sup>  |               | 6020 | 54.2 |
| Longmire       | iP   | 24.3               |               | 6100 | 54.9 |
| Blue M.        | eP   | 27.6               |               | 6190 | 55.7 |
| Cumberland Pl. | eP   | 28.8               |               | 6180 | 55.6 |
| Flaming Gorge  | eP   | 42.2               |               | 6330 | 57.4 |
| Uinta Basin    | eP   | 46.9               | ePPS 07 56 11 | 6445 | 58.0 |
| Dugway         | eP   | 53.5               |               | 6555 | 59.0 |
| Wichita M.     | eP   | 48 01.9            | ePP 50 13.2   | 6690 | 60.2 |
| Eureka         | iP   | 04.2               |               | 6710 | 60.4 |
| Mineral        | eP   | 06.4 <sup>D</sup>  |               | 6765 | 60.9 |
| Albuquerque    | eP   | 16.5               |               | 6910 | 62.2 |
| Lubbock        | eP   | 17                 |               | 6910 | 62.2 |
| Berkeley       | eP   | 20.6               |               | 7045 | 63.4 |
| Mt. Hamilton   | eP   | 23.4               |               | 7090 | 63.8 |
| Boulder City   | eP   | 24.2               |               | 7055 | 64.5 |
| San Luis Dam   | eP   | 28.2               |               | 7110 | 64.0 |
| Tonto Forest   | eP   | 28.8               | ePP 46.4      | 7120 | 64.1 |
| Tucson         | eP   | 39.7               |               | 7320 | 65.9 |
| Pasadena       | eP   | 41                 |               | 7335 | 66.0 |
| Bangui         | iP   | 55.2 <sup>D</sup>  |               | 7620 | 68.6 |
| Trieste        | e(S) | 49 34              | e 52 52       |      |      |
| La Palma       | eP   | 45.5               |               | 8510 | 76.6 |

inscrit à Istanbul UTI - Penas - La Paz.

IX.- 3; Janvier

Près de la cote du Kamtchatka.

54°9 N ; 161°5 E ; h = 39km ; H = 07h.49<sup>mm</sup>04s. (CGS)

M. = 5.1(Eureka); 4.9(Uinta Basin); 4.8(CGS - Wichita M. - Dugway);  
4.5(Tonto Forest); 4.4(Blue M.).

|               |    |          |  |      |      |
|---------------|----|----------|--|------|------|
| Matsushiro    | P  | 07 54 21 |  |      |      |
| College       | eP | 40       |  | 2955 | 26.6 |
| Gilmore Creek | eP | 41.3     |  | 2965 | 26.7 |
| Edmonton      | eP | 57 34    |  | 5235 | 47.1 |

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|                 |           |          |  |      |      |
|-----------------|-----------|----------|--|------|------|
| Newport         | eP        | 07 57 42 |  | 5365 | 48'3 |
| Nordman         | eP        | 42       |  | 5355 | 48'2 |
| Blue M.         | eP        | 59'5     |  | 5610 | 50'5 |
| Oroville        | eP        | 58 09'5  |  | 5755 | 51'8 |
| Bozeman SSS     | eP        | 18       |  | 5880 | 52'9 |
| Eureka          | iP        | 33'5     |  | 6100 | 54'9 |
| Dugway          | eP        | 42       |  | 6235 | 56'1 |
| Pasadena        | eP        | 51       |  | 6400 | 57'6 |
| Uinta Basin     | eP        | 53'5     |  | 6410 | 57'7 |
| Tonto Forest    | eP        | 59 18'2  |  | 6810 | 61'3 |
| Tucson          | eP        | 29       |  | 7000 | 63'0 |
| Wichita M.      | eP        | 58'5     |  | 7510 | 67'6 |
| Moxa            | eP        | 08 00 24 |  | 7990 | 71'9 |
| Charters Towers | iP        | 47'5     |  | 8420 | 75'8 |
| La Paz          | ePKP      | 07 48    |  |      |      |
|                 | inscrit à | Penas.   |  |      |      |

X.- 3 Janvier

Près de Miyakejima (Japon)

$34^{\circ}17' N$  ;  $139^{\circ}32' E$  ; H =  $09^h.37^{mn}46.4^s$ . (JMA)  
M. =  $3.7$  (JMA)

|            |    |            |    |            |         |
|------------|----|------------|----|------------|---------|
| Oshima     | P  | 09 38 00'2 |    | 55         | 0'5     |
| Mishima    | eP | 06         | eS | 09 38 21'5 | 107 1'0 |
| Omaezaki   | eP | 10         | S  | 25'9       | 126 1'1 |
| Shizuoka   | eP | 11         | S  | 26'6       | 128 1'2 |
| Matsushiro | iP | 32'8       | S  | 39 05      | 278 2'5 |

XI.- 3 Janvier

Iles Loyauté

Vers  $22^{\circ}0 S$  ;  $170^{\circ}0 E$  ; H =  $09^h.40^{mn}15^s$ . (Nouméa)  
M. =  $3.4$  (Nouméa)

|          |     |                    |    |          |  |
|----------|-----|--------------------|----|----------|--|
| Ouanaham | eIP | 09 40 56'7         | 1S | 09 41 27 |  |
| Nouméa   | iP  | 41 06 <sup>D</sup> | 1S | 44'5     |  |
| Koumac   | eIP | 38'3               | 1S | 42 39    |  |

inscrit à Port Vila

XII.- 3 Janvier

Golfe de l'Alaska.

$59^{\circ}7 N$  ;  $146^{\circ}8 W$  ; h =  $19^{\text{km}}$  ; H =  $10^h.18^{mn}00.7^s$ . (CGS)  
 $59^{\circ}8 N$  ;  $146^{\circ}6 W$  ; H =  $10^h.18^{mn}03^s$ . (URSS)

M. =  $5.6$  (College);  $5.0$  (Kajaani);  $4.9$  (Station Nord - Kevo);  $4.8$  (Uinta Basin);  
 $4.7$  (CGS); Newport - Blue M.); Bozeman SSS - Wichita L.);  $4.6$  (Eureka -  
Mould Bay);  $4.5$  (Dugway - Tonto Forest);  $4.1$  (Longmire).

|                  |    |          |    |            |        |
|------------------|----|----------|----|------------|--------|
| Middleton Island | iP | 10 18 09 | 1S | 10 18 14'3 | 45 0'4 |
|------------------|----|----------|----|------------|--------|

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|                 |    |       |                   |      |          |      |      |
|-----------------|----|-------|-------------------|------|----------|------|------|
| Mts Sheep Creek | iP | 10 18 | 37.4              |      |          | 245  | 2.2  |
| Palmer          | eP |       | 37.7              |      |          | 245  | 2.2  |
| Kodiak          | iP |       | 54                | eS   | 10 19 19 | 400  | 3.6  |
| Black Rapids    | iP | 19    | 00.8              |      |          | 420  | 3.8  |
| Big Mountain    | eP |       | 08                |      |          | 480  | 4.3  |
| Sparrevohn      | eP |       | 10                |      |          | 510  | 4.6  |
| College         | eP |       | 19.2              | eS   | 20 35    | 580  | 5.2  |
| Gilmore Creek   | eP |       | 20                |      |          | 590  | 5.3  |
| Pedro Dome      | iP |       | 20.8              |      |          | 600  | 5.4  |
| Tanana          | eP |       | 32                |      |          | 680  | 6.1  |
| Sitka           | iP |       | 34                |      |          | 735  | 6.6  |
| Timwater        | iP | 22    | 21.5              |      |          | 2110 | 19.0 |
| Moula Bay       | eP |       | 24                |      |          | 2135 | 19.2 |
| Edmonton        | eP |       | 27                |      |          | 2155 | 19.4 |
| Longmire        | iP |       | 31                |      |          | 2180 | 19.6 |
| Noröman         | iP |       | 39.5              |      |          | 2280 | 20.5 |
| Newport         | iP |       | 41.2              |      |          | 2300 | 20.7 |
| Spokane         | eP |       | 44.5              |      |          | 2335 | 21.0 |
| Hungry Horse    | eP |       | 58.9              |      |          | 2455 | 22.1 |
| Blue M.         | eP | 23    | 07.3              |      |          | 2565 | 23.1 |
| Resolute        | eP |       | 19                |      |          | 2655 | 23.9 |
| Butte           | eP |       | 19.7              |      |          | 2720 | 24.5 |
| Mineral         | P  |       | 24.9 <sup>C</sup> |      |          | 2780 | 25.0 |
| Bozeman SSS     | eP |       | 27                |      |          | 2800 | 25.2 |
| Oroville        | eP |       | 30.6              |      |          | 2855 | 25.7 |
| Berkeley        | P  |       | 42.1              |      |          | 2990 | 26.9 |
| Jamestown       | P  |       | 48.2 <sup>C</sup> |      |          | 3055 | 27.5 |
| Mt. Hamilton    | P  |       | 49.1 <sup>C</sup> |      |          | 3065 | 27.6 |
| San Luis Dam    | eP |       | 52.7              |      |          | 3110 | 28.0 |
| Eureka          | iP |       | 53.6              |      |          | 3110 | 28.0 |
| Dugway          | eP |       | 59.5              |      |          | 3200 | 27.8 |
| Flaming Gorge   | eP | 24    | 07.7              |      |          | 3310 | 29.8 |
| Uinta Basin     | eP |       | 11.3              | eS   | 10 29 22 | 3355 | 30.2 |
| Magadan         | eP |       | 17                |      |          |      |      |
| Pasadena        | eP |       | 25                |      |          | 3520 | 31.7 |
| Tiksi           | eP |       | 40                |      |          |      |      |
| Tonto Forest    | eP |       | 49.6              | ePP  | 26 11.1  | 3820 | 34.4 |
| Frobisher       | eP |       | 54                |      |          | 3910 | 35.2 |
| Tucson          | eP | 25    | 04.9              |      |          | 4035 | 36.3 |
| Station Nord    | iP |       | 07 <sup>C</sup>   |      |          | 4045 | 36.4 |
| Manhattan       | eP |       | 14                |      |          | 4155 | 37.4 |
| Yakoutsk        | iP |       | 22 <sup>C</sup>   | S    | 31 14    |      |      |
| Kheis           | eO |       | 30                |      |          |      |      |
| Wichita M.      | eP |       | 35                | ePcP | 27 39.2  | 4435 | 39.9 |
| Cumberland Pl.  | eP | 26    | 21.6              |      |          | 5080 | 45.7 |
| Washington      | eP |       | 34                |      |          | 5255 | 47.3 |
| Kevo            | eP | 27    | 01                | e    | 34 16    | 5645 | 50.8 |
| Matsushiro      | P  |       | 10                |      |          |      |      |
| Kiruna          | iP |       | 13.9              |      |          |      |      |
| Apatity         | iP |       | 18 <sup>D</sup>   |      |          |      |      |
| Sodankylä       | eP |       | 18                |      |          | 5900 | 53.1 |

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|                  |    |                   |      |            |      |      |
|------------------|----|-------------------|------|------------|------|------|
| Oulu             | eP | 10 27 34          |      |            |      |      |
| Uméa             | eP | 42                |      |            |      |      |
| Kajaani          | eP | 42                | i    | 10 28 13.4 | 6280 | 56.5 |
| Oulan Bator      | eP | 49                |      |            |      |      |
| Uddeholm         | eP | 28 05             |      |            |      |      |
| Nurmi jaerwi     | eP | 13                | i    | 29         | 6655 | 59.9 |
| La Palma         | eP | 19                |      |            | 6855 | 61.7 |
| Moskva           | eP | 20 <sup>C</sup>   |      |            |      |      |
| Sverdlovsk       | P  | 20                |      |            |      |      |
| Esen Boulak      | iP | 26                |      |            |      |      |
| Collm            | eP | 29 01             |      |            | 7565 | 68.1 |
| Moxa             | eP | 04                |      |            | 7620 | 68.6 |
| Pruhonicé        | eP | 11                |      |            | 7735 | 69.6 |
| Fürstenfeldbruck | eP | 16                | eipP | 29 23      |      |      |
| Kasperské Hory   | P  | 16.2              |      |            | 7820 | 70.4 |
| Sommée Lormes    | eP | 16.8              |      |            | 7855 | 70.7 |
| St. Saulge       | eP | 17.9              |      |            | 7865 | 70.8 |
| Niedzica         | eP | 18 <sup>C</sup>   |      |            |      |      |
| Les Buteaux      | iP | 19.3              |      |            |      |      |
| Talgar           | iP | 20                |      |            |      |      |
| Toulx Ste Croix  | iP | 21.5              |      |            |      |      |
| Bratislava       | eP | 22.6              | e    | 30 09.2    | 7965 | 71.7 |
| Oujgorod         | iP | 24 <sup>C</sup>   |      |            |      |      |
| Frounze          | eP | 28                |      |            |      |      |
| Roselend         | eP | 33                | ei   | 29.8       |      |      |
| Toledo           | eP | 50.5              |      |            |      |      |
| Garm             | P  | 54                |      |            |      |      |
| Bakouriani       | eP | 30 00             |      |            |      |      |
| Kirovabad        | eP | 06                |      |            |      |      |
| Warsak           | P  | 14                |      |            | 9035 | 81.3 |
| Shillong         | eP | 22.5              |      |            | 9155 | 82.4 |
| Quetta           | eP | 43.7 <sup>D</sup> |      |            | 9580 | 86.2 |
| La Paz           | eP | 31 36             |      |            |      |      |
| Penas            | eP | 38                |      |            |      |      |

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Mexique

H<sub>1</sub> = 11<sup>h</sup>.06<sup>mn</sup>58s. (Tacubaya)

|                   |    |          |    |          |     |     |
|-------------------|----|----------|----|----------|-----|-----|
| Vista Hermosa     | iP | 11 07 49 | iS | 11 08 28 | 350 | 3.2 |
| Nar.Univ.Mexico   | iP | 08 06.5  |    |          | 425 | 3.8 |
| Presa Infiernillo | i  | 35       |    |          |     |     |
| Tacubaya          | iS | 49       |    |          | 435 | 3.9 |

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Données insuffisantes.

|                |   |          |   |           |  |  |
|----------------|---|----------|---|-----------|--|--|
| Ljubljana      | e | 13 36 22 | e | 13 37(00) |  |  |
| Kasperské Hory | e | 42       |   |           |  |  |

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|            |    |          |  |
|------------|----|----------|--|
| Bratislava | eI | 13 37 12 |  |
| Pruhonice  | e  | 30       |  |
| Collm      | eP | 38 23    |  |

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Witwatersrand.

28° 4 S ; 27° 3 E ; h = 14<sup>h</sup>.28<sup>mn</sup>04<sup>s</sup>. ; M. = 3.4(Bulawayo)

|          |     |          |       |          |
|----------|-----|----------|-------|----------|
| Karoi    | ePn | 14 29 23 | e(Sn) | 14 32 06 |
| Bulawayo | ePn | 36       | e(Sg) | 31 16    |

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Au large de la cote du Mexique.

10° 8 N ; 105° 7 W ; h = 33<sup>km</sup> ; H = 19<sup>h</sup>.14<sup>mn</sup>56<sup>s</sup>. (CGS)

M. = 5.1 (Penas) ; 4.8 (Newport) ; 4.6 (CGS - La Paz) ; 4.5 (Wichita M. - Eureka) ; 4.4 (Uinta Basin - Dugway) ; 4.3 (Tonto Forest) ; 4.2 (Albuquerque - Blue M.)

|               |    |          |                  |           |
|---------------|----|----------|------------------|-----------|
| Vista Hermosa | e  | 19 18 56 |                  |           |
| Tucson        | eP | 19 55.4  |                  | 2520 22.7 |
| Wichita M.    | eP | 20 09    | e(PP) 10 20 44.8 | 2680 24.1 |
| Albuquerque   | eP | 11.2     | e 16             | 2700 24.3 |
| Tonto Forest  | eP | 15.2     |                  | 2735 24.6 |
| China Lake    | P  | 48       |                  | 3145 28.3 |
| Uinta Basin   | eP | 21 04    |                  | 3335 30.0 |
| Dugway        | eP | 09.2     |                  | 3400 30.6 |
| Eureka        | IP | 12.8     |                  | 3435 30.9 |
| San Luis Dam  | eP | 14.7     | eL 21 45         | 3445 31.0 |
| Blue M.       | eP | 56.2     |                  | 4020 36.2 |
| Newport       | IP | 22 22.9  |                  | 4355 39.2 |
| Nordman       | eP | 25       |                  | 4390 39.5 |
| Brébeuf       | eP | 50       |                  |           |
| Penas         | eP | 58       |                  | 4800 43.2 |
| La Paz        | eP | 59       |                  | 4855 43.7 |
| Palmer        | eP | 25 05.5  |                  | 6755 60.8 |
| College       | eP | 15.5     |                  | 6920 62.3 |
| Gilmore Creek | eP | 15.5     |                  | 6920 62.3 |
| Mould Bay     | eP | 40C      |                  | 7335 66.0 |

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Sud des Iles Fidji.

24° 5 S ; 179° 3 E ; h = 612<sup>km</sup> ; H = 19<sup>h</sup>.32<sup>mn</sup>37<sup>s</sup>. (CGS)

M. = 4.7 (Uinta Basin) ; 4.2 (CGS) ; 4.1 (Dugway) 4.0 (Tonto Forest - Blue M.)

|        |    |                         |  |           |
|--------|----|-------------------------|--|-----------|
| Nouméa | IP | 19 35 15.5 <sup>C</sup> |  | 1335 12.0 |
|--------|----|-------------------------|--|-----------|



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|                 |      |                   |               |       |       |
|-----------------|------|-------------------|---------------|-------|-------|
| Luganville      | eP   | 19 35 38.8        |               | 1610  | 14.5  |
| Koumac          | iP   | 40.7 <sup>C</sup> |               | 1600  | 14.4  |
| Honiara         | eP   | 37 05.8           |               | 2645  | 23.8  |
| Brisbane        | eP   | 08                |               | 2665  | 24.0  |
| Charters Towers | iP   | 38 08             |               | 3420  | 30.8  |
| Port Moresby    | iP   | 36                |               | 3790  | 34.1  |
| Warramunga      | eP   | 39 36             |               | 4635  | 41.7  |
| Darwin          | eP   | 40 18             |               | 5255  | 47.3  |
| Kalgoorlie      | iP   | 45.8              |               | 5680  | 51.1  |
| Pasadena        | eP   | 43 59             |               | 9255  | 83.3  |
| Tucson          | eP   | 44 22.2           |               | 9710  | 87.4  |
| Eureka          | eP   | 24                |               | 9755  | 87.8  |
| Tonto Forest    | eP   | 25.8              |               | 9790  | 88.1  |
| Blue M.         | eP   | 33.9              |               | 10000 | 90.0  |
| Dugway          | eP   | 35                |               | 10020 | 90.2  |
| College         | eP   | 44.5              |               | 10080 | 92.7  |
| Uinta Basin     | eP   | 44.9              |               | 10045 | 92.4  |
| Kajaani         | ePKP | 50 52             | eSKP 19 53 35 |       |       |
| Uppsala         | PKP  | 59.9              |               | 15820 | 142.4 |
| Uddeholm        | iPKP | 51 02.5           |               |       |       |
| Collm           | PKP  | 25                |               | 16810 | 151.3 |
| Uméa            | iSKP | 53 42.6           |               |       |       |
| Nurmijaerwi     | iSKP | 48.2              |               |       |       |

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Guerrero (Mexique)

17° 1' N ; 99° 5' W ; h = 33 km ; H = 20h.59mn37s. (CGS)  
 16° 28' N ; 100° 12' W ; H = 20h.59mn22s. (Tacubaya)

M. = 4.9 (Penas) ; 4.8 (Uinta Basin) ; 4.5 (Wichita M.) ; 4.3 (CGS) ; 4.2 (Blue M.) ;  
 4.1 (Eureka) ; 4.0 (Tonto Forest - Dugway) ; 3.9 (Albuquerque).

|                     |      |                       |       |          |      |      |
|---------------------|------|-----------------------|-------|----------|------|------|
| Presa Infiernillo   | iPn  | 21 00 06 <sup>C</sup> | iSn   | 21 00 38 |      |      |
| Nat. Univ. Mexico   | iP   | 13                    | iS    | 49       | 245  | 2.2  |
| Tacubaya            | iP   | 14                    | iL    | 53       |      |      |
| Vista Hermosa       | iP   | 18.5                  |       |          |      |      |
| Oaxaca              | i(P) | 24                    |       |          |      |      |
| Presa Benito Juarez | iP   | 37                    | iS    | 01 33.1  |      |      |
| Vera Cruz           | i(P) | 48                    | iS    | 39       |      |      |
| Léon                | i    | 58                    |       |          |      |      |
| Guadalajara         | e(P) | 01 21                 |       |          |      |      |
| La Palma            | eP   | 02 06.6               |       |          | 1145 | 10.3 |
| Lubbock             | eP   | 03 29                 |       |          | 1835 | 16.5 |
| Wichita M.          | eP   | 38.8                  | ePP   | 03 49.4  | 1945 | 17.5 |
| Tucson              | eP   | 50.2                  |       |          | 2020 | 18.2 |
| Albuquerque         | eP   | 55                    |       |          | 2090 | 18.8 |
| Tulsa               | iP   | 58.5 <sup>C</sup>     |       |          | 2110 | 19.0 |
| Tonto Forest        | eP   | 04 10.6               | e(PP) | 04 20.4  | 2235 | 20.1 |
| Uinta Basin         | eP   | 56.7                  | e     | 09 24    | 2745 | 24.7 |
| Pasadena            | eP   | 59                    |       |          | 2645 | 23.8 |
| Dugway              | eP   | 05 06.6               |       |          | 2855 | 25.7 |

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|              |     |            |      |      |
|--------------|-----|------------|------|------|
| Eureka       | iP  | 21 05 14.2 | 2945 | 26.5 |
| Blue M.      | eP  | 56         | 3490 | 31.4 |
| Hungry Horse | eP  | 06 13.2    | 3700 | 33.3 |
| Newport      | eP  | 21         | 3800 | 34.2 |
| Nordman      | eP  | 23         | 3835 | 34.5 |
| Edmonton     | eP  | 49         | 4180 | 37.6 |
| Penas        | PKP | 07 52.2    | 5010 | 45.1 |
| La Paz       | P   | 55.5       |      |      |
| College      | eP  | 09 27      | 6400 | 57.6 |
| Mould Bay    | eP  | 56         | 6665 | 60.0 |

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Nouvelles Hébrides (Ile Espiritu Santo)

16°5 S ; 167°2 E ; H = 21<sup>h</sup>.26<sup>mn</sup>36<sup>s</sup>. (Nouméa)

M. = 4.1 (Nouméa)

|            |     |            |    |          |  |
|------------|-----|------------|----|----------|--|
| Lonorore   | iP  | 21 26 53.8 | 1S | 21 27 07 |  |
| Luganville | iP  | 59.8D      | 1S | 17.5     |  |
| Port Vila  | eIP | 27 00      | 1S | 18       |  |
| Koumac     | eIP | 59.3       | 1S | 29 05    |  |
| Nouméa     | eIP | 28 03.1    | 1S | 09       |  |

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Région de la Nouvelle Bretagne.

5°7 S ; 152°9 E ; h = 34<sup>km</sup> ; H = 21<sup>h</sup>.34<sup>mn</sup>44<sup>s</sup>. (CGS)

M. = 4.2 (CGS - Uinta Basin)

|                 |    |          |    |            |            |
|-----------------|----|----------|----|------------|------------|
| Esa Ala         | iP | 21 35 01 | 1S | 21 35 05.5 |            |
| Keravat         | iP | 10D      | 1S | 40         | 180 1.6    |
| Rabalanakaia    | iP | 10.5C    |    |            | 190 1.7    |
| Rabaul          | iP | 11D      | 1S | 40         | 190 1.7    |
| Wanliss Street  | iP | 11C      |    |            | 190 1.7    |
| Sukphur Creek   | iP | 11C      |    |            | 190 1.7    |
| Port Moresby    | iP | 36 35.6C | eS | 38 07      | 745 6.7    |
| Honiara         | eP | 39       |    |            | 880 7.9    |
| Charters Towers | eP | 38 30    |    |            | 1735 15.6  |
| Brisbane        | eP | 39 28.5  |    |            | 2390 21.5  |
| Darwin          | eP | 43       | e  | 40 13      | 2520 22.7  |
| Warramunga      | eP | 46       |    |            | 2545 22.9  |
| Kalgoorlie      | eP | 42 02.4D |    |            |            |
| Meekatharra     | iP | 02.7C    |    |            |            |
| College         | eP | 47 05    |    |            | 9190 82.7  |
| Quetta          | eP | 26       |    |            | 9920 89.3  |
| Uinta Basin     | eP | 48 30.4  |    |            | 11055 99.5 |

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XXI. 3 janvier

Région de Guerrero (Mexique)

17°00'N, 98°02'W H = 21h 43m 23s (Tacubaya)

|                   |    |          |    |          |     |     |
|-------------------|----|----------|----|----------|-----|-----|
| Vista Hermosa     | 1P | 21 43 45 | 1S | 21 44 00 | 130 | 1-2 |
| Presa Benito J.   | 1P | 44 05-3  |    |          | 280 | 2-5 |
| Tacubaya          | 1P | 07       |    |          | 290 | 2-6 |
| Presa Infiernillo | eP | 24-5     |    |          | 420 | 3-8 |

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Nouvelles Hébrides

18°8'S, 168°9'E h = 289km H = 23h 15m 52-6s (CGS)

19°0'S, 169°7'E H = 23h 15m 52s (Nouméa)

M = 4-4 (Tonto Forest, Uinta Basin), 4-2 (CGS), 3-9 (Blue M),  
3-5 (Nouméa)

|                 |      |           |    |          |       |       |
|-----------------|------|-----------|----|----------|-------|-------|
| Port Vila       | 1P   | 23 16 32D | 1S | 23 17 03 | 135   | 1-2   |
| Ouanaham        | 1P   | 41-6C     |    |          |       |       |
| Lonorore        | 1P   | 49-8D     | 1S | 34-5     | 345   | 3-1   |
| Luganville      | 1P   | 58C       | 1S | 50       | 410   | 3-7   |
| Nouméa          | 1P   | 17 00-8C  | 1S | 51       | 465   | 4-2   |
| Koumac          | 1P   | 11-3C     | 1S | 18 12    | 520   | 4-7   |
| Charters Towers | e(P) | 20 30     |    |          | 2380  | 21-4  |
| Mt Hamilton     | eP   | 28 01-9   |    |          | 9545  | 85-9  |
| Priest          | eP   | 03-1      |    |          | 9565  | 86-1  |
| Oroville        | 1P   | 06-9      |    |          | 9665  | 87-0  |
| Jamestown       | eP   | 07-0C     |    |          | 9665  | 87-0  |
| Glamis          | P    | 17        |    |          | 9910  | 88-2  |
| College         | eP   | 18        |    |          | 9980  | 88-98 |
| Gilmore Creek   | eP   | 19-7      |    |          | 9990  | 88-9  |
| Eureka          | eP   | 25-3      |    |          | 10100 | 90-9  |
| Tucson          | eP   | 30        |    |          | 10220 | 92-0  |
| Blue M.         | eP   | 30        |    |          | 10235 | 92-1  |
| Tonto Forest    | eP   | 32-2      |    |          | 10265 | 92-4  |
| Uinta Basin     | eP   | 46-8      |    |          | 10635 | 95-7  |
| Banguï          | PKP  | 35 06-3   |    |          | 16410 | 147-7 |

I. 4 janvier

Crête médiane de l'Océan Atlantique Sud

16°5'S, 13°6'W h = 33km H = 00h 24m 23s (CGS)

|                |    |            |     |          |      |      |
|----------------|----|------------|-----|----------|------|------|
| Lanto          | P  | 00 29 36-8 |     |          | 2680 | 24-1 |
| Sa da Bandeira | 1P | 56-1       |     |          | 2910 | 26-2 |
| Banguï         | eP | 31 50-1D   |     |          | 4220 | 38-0 |
| Bulawayo       | 1P | 58D        |     |          | 4456 | 40-1 |
| Broken Hill    | eP | 32 05-0    |     |          | 4500 | 40-5 |
| Kar oi         | 1P | 08D        |     |          | 4590 | 41-3 |
| Butare         | 1P | 38-2       | C/D |          |      |      |
| La Paz         | eP | 33 34-0    |     |          | 5790 | 52-1 |
| Penas          | eP | 35-0       |     |          | 5830 | 52-5 |
| Roselend       | eP | 35 02      | L   | 00 35 04 |      |      |
| Lanslevillard  | eP | 11         | e   | 20       |      |      |

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II. 4 janvier  
Région de la Nouvelle Bretagne

5° 9'S, 151° 4'E h = 33 km H = 00h 49<sup>mn</sup> 27<sup>s</sup> (CGS)  
H = 00h 49<sup>mn</sup> 26<sup>s</sup> (Rabaul)

M = 5.1 (Rabaul)

|                 |    |           |    |          |      |      |
|-----------------|----|-----------|----|----------|------|------|
| Esa' Ala        | IP | 00 49 27D |    |          |      |      |
| Keravat         | IP | 55. D     | IS | 00 50 22 | 1 40 | 1.7  |
| Rabaul          | IP | 58. 1D    | IS | 22.0     | 210  | 1.9  |
| Wanliss Street  | IP | 58. 1D    |    |          | 210  | 1.9  |
| Rabalanakaia    | IP | 58. 2D    |    |          | 210  | 1.9  |
| Sulphur Creek   | IP | 58. 5     |    |          | 210  | 1.9  |
| Port Moresby    | EP | 50 48     | ES | 51 46    | 710  | 5.4  |
| Charters Towers | EP | 53 04     |    |          | 1655 | 14.9 |
| Warramunga      | EP | 54 12     |    |          | 2400 | 21.6 |
| Brisbane        | IP | 14.3      |    |          | 2380 | 21.4 |

III. 4 janvier  
Iles aux Renards, Aléoutiennes

52° 2'N, 171° 3'W h = 36 km H = 00h 57<sup>mn</sup> 44.4<sup>s</sup> (CGS)  
52° 0'N, 171° 3'W H = 00h 57<sup>mn</sup> 42<sup>s</sup> (URSS)

M = 6.5 (Kipapa), 6.3 (Caracas), 6.2 (Rabaul), 6.1 (Roma, Port Moresby, Mt Tsukuba, Uinta Basin), 6 - 6 1/4 (Pasadena, Palisades), 6.0 (URSS), 5.9 (Tucson, Uppsala, Kiruna, Wichita M., Cumberland Pl), 5.8 (San Juan, Kobenhavn), 5.7 (Coppermine, CGS, New Dehli, Qetta), 5.6 - 5.9 (Berkeley), 5.6 (Poona, Nurmijaervi, Kajaani, Albuquerque), 5.5 (Tonto Forest, Oroville, Kap Tobin), 5.3 (Kevo, Stuttgart), 5.0 (North Pole), 4.9 (College, Station Nord).

|                   |    |            |      |            |       |      |
|-------------------|----|------------|------|------------|-------|------|
| Adak              | IP | 00 58 33.3 | e    | 01 13 12.5 | 370   | 3.3  |
| Palmer            | EP | 01 01 18.5 | ES   | 04 20.0    | 1690  | 15.2 |
| College           | IP | 46.1       | ES   | 05 02.0    | 1945  | 17.5 |
| Gilmore Creek     | EP | 47.5       |      |            | 1970  | 17.7 |
| Petrovavlovsk     | IP | 56         | ES   | 14         | 2025  | 18.2 |
| Severo Kourilsk   | P  | 02 16      |      |            | 2255  | 20.3 |
| Barrow            | IP | 20.2       | ESCP | 10 04.5    | 2245  | 20.2 |
| Sitka             | EP | 29.5       | e(S) | 06 32.0    | 2355  | 21.2 |
| Magadan           | P  | 40         | S    | 44         | 2470  | 22.2 |
| Youjno Sakhalinsk | EP | 03 50      | IS   | 08 4.9     | 3315  | 29.8 |
| Coppermine        | EP | 57.0       |      |            | 3420  | 30.8 |
| North Pole        | EP | 04 01.6    |      |            | 3455  | 31.1 |
| Tiksi             | EP | 10         | ES   | 0.9 20     | 3585  | 32.3 |
| Longmire          | IP | 10.7       | e    | 02.2       | 3565  | 32.1 |
| Yakoutsk          | IP | 11D        | S    | 18         | 35 35 | 32.4 |
| Kipapa            | IP | 13.2       | I    | 04 24.2    | 3600  | 32.4 |
| Honolulu          | IP | 14.1       |      |            | 3610  | 32.5 |
| Arcata            | EP | 27D        |      |            | 3760  | 33.8 |
| Nordman           | IP | 27.8       |      |            | 3790  | 34.1 |
| Newport           | IP | 28.4       |      |            | 3800  | 34.2 |
| Edmonton          | IP | 29.0       |      |            | 3810  | 34.3 |
| Spokane           | IP | 30.0D      |      |            | 3810  | 34.3 |
| Hawai Volcobs     | IP | 35.7       | ePP  | 05 53.0    | 3800  | 35.1 |

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|                |      |       |        |      |          |       |            |
|----------------|------|-------|--------|------|----------|-------|------------|
| Ukiah          | eP   | 01 04 | 41.0   |      |          | 3 330 | 35.4       |
| Hungry Horse   | iP   |       | 44.0D  | e    | 01 10    | 53.8  | 4000 36.0  |
| Oroville       | iP   |       | 4 5.3  | i    |          | 52.3  | 4020 36.2  |
| Mineral        | eP   |       | 46.1D  |      |          |       | 3 930 35.7 |
| San Luis Dam   | l(P) |       | 48.5   | l    | 07 16.4  |       | 4210 37.9  |
| Resolute       | eP   |       | 50.7D  |      |          |       | 4110 37.0  |
| Berkley        | eP   |       | 54.0   | e    | 0 9 36.0 |       | 40 10 36.8 |
| Mt Hamilton    | eP   |       | 56.8   |      |          |       | 4170 37.5  |
| Mt Tsukuba     | iP   |       | 57.2   | eS   | 10 45.3  |       | 4170 37.5  |
| Jamestown      | eP   | 05    | 00.5D  |      |          |       | 4200 37.8  |
| Bitte          | eP   |       | 00.6   |      |          |       | 4220 38.0  |
| Vladivostok    | eP   |       | 03     |      |          |       | 4270 38.4  |
| Matsushiro     | iP   |       | 04.8   | S    |          | 56    | 4280 38.5  |
| Priest         | eP   |       | 0 9 0D |      |          |       | 4320 38.9  |
| Eureka         | iP   |       | 15.2   | lS   | 11 06.8  |       | 4400 39.6  |
| Bodajbo        | P    |       | 26     |      |          |       | 4565 41.1  |
| Salt Lake City | eP   |       | 29.4   | e    | 07 21.9  |       | 4600 41.4  |
| Oishiyama      | eP   |       | 30.0   |      |          |       | 4655 41.8  |
| Pasadena       | iP   |       | 31     | lS   | 11 45    |       | 4630 41.7  |
| Wakaura        | eP   |       | 33.5   |      |          |       | 4655 41.9  |
| Boulder City   | eP   |       | 39.2   | eSP  | 05 54.2  |       | 4730 42.6  |
| Las Vegas      | iP   |       | 40.5   |      |          |       | 4700 42.3  |
| Uinta basin    | eP   |       | 42.9   | eS   | 12 07.0  |       | 4780 43.0  |
| Shiraki        | P    |       | 44.0   |      |          |       | 4800 43.2  |
| Seoul          | eP   |       | 56.9   |      |          |       | 4970 44.7  |
| Kheis          | eP   |       | 57     |      |          |       | 4 830 4.6  |
| Flagstaff      | iP   |       | 59.1   | i    |          | 39.7  | 4 890 44.9 |
| Station Nord   | iP   | 06    | 03.0   |      |          |       | 5080 45.7  |
| Tonto Forest   | eP   |       | 05.3   | ePS  |          | 54.0  | 5100 45.9  |
| Tucson         | iP   |       | 17.5D  | eSCP | 11 38.0  |       | 5230 47.5  |
| Albuquerque    | iP   |       | 24.0D  | e    | 06 39.0  |       | 5380 48.4  |
| Irkoutsk       | eP   |       | 25     |      |          |       | 5420 48.8  |
| Kings Bay      | eP   |       | 31     |      |          |       | 5460 49.1  |
| Qulan Bator    | P    |       | 31     | S    | 13 33    |       | 5560 50.0  |
| Frobisher      | eP   |       | 34.0   |      |          |       | 5530 49.8  |
| Manhattan      | eP   |       | 48.0   |      |          |       | 5720 51.5  |
| Guam           | eP   |       | 50.0   | eS   | 14 08.0  |       | 5780 52.0  |
| Lubbock        | eP   |       | 52.0   |      |          |       | 57 10 52.1 |
| Lawrence       | eP   |       | 53.4   |      |          |       | 5830 52.5  |
| Dubuque        | P    |       | 56.0   |      |          |       | 5870 52.8  |
| Wichita M.     | eP   | 07    | 01.0   | eS   |          | 31.8  | 5920 53.3  |
| Tulsa          | iP   |       | 07.5D  |      |          |       | 6020 54.2  |
| Kap Tobin      | eP   |       | 18.0   |      |          |       | 6190 55.7  |
| Esen Boulak    | P    |       | 25     | S    | 15 17    |       | 6285 56.6  |
| Ann Arbor      | eP   |       | 26.0   |      |          |       | 6310 56.8  |
| Kirkenes       | iP   |       | 31.0   |      |          |       | 6330 57.4  |
| Kevo           | iP   |       | 31.8   | eS   |          | 24    | 6400 57.6  |
| Bowling Green  | eP   |       | 32.0   |      |          |       | 6330 57.4  |
| Ottawa         | eP   |       | 41.0   |      |          |       | 6545 58.9  |
| Adatly         | eP   |       | 41     | eS   |          | 37    |            |
| Brébeuf        | iP   |       | 46.6C  |      |          |       | 6645 59.8  |
| Kiruna         | iP   |       | 48.2   | lS   |          | 58    | 6656 59.9  |
| Sodankylae     | iP   |       | 4 9 2  | lSCP | 12 31.4  |       | 6670 60.0  |
| Cumberland pl  | eP   |       | 50.0   |      |          |       | 6710 60.4  |

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|                    |      |             |      |            |  |       |      |
|--------------------|------|-------------|------|------------|--|-------|------|
| Semipalatinsk      | P    | 01 07 55.3C |      |            |  | 6805  | 61.3 |
| Oak Ridge          | ep   | 55.7        |      |            |  | 6770  | 60.9 |
| Black Rapids       | IF   | 08 02.9     | (S)  | 01 16 40.0 |  | 6910  | 62.2 |
| Oulu               | ep   | 03          |      |            |  | 6 920 | 62.3 |
| Washinton Sc. Cen. | ep   | 06.0        |      |            |  | 6 955 | 62.6 |
| Kajaani            | IF   | 07.4        | eSCP | 12 45      |  | 7010  | 63.1 |
| Sverdlovsk         | ep   | 11          | S    | 16 36      |  | 7030  | 63.3 |
| Hong Kong          | ep   | 12.0        | eS   | 40.0       |  | 7030  | 63.3 |
| Baguio             | IF   | 12.8        | iS   | 45.5       |  | 7090  | 63.8 |
| Umeå               | IF   | 14.5C       | iS   | 42         |  | 7110  | 64.0 |
| Tacubaya           | ep   | 16          |      |            |  | 7110  | 64.0 |
| Nat. Univ. Mexico  | IF   | 16          | iS   | 49         |  | 7120  | 64.1 |
| Rabaul             | IF   | 16.5        | iS   | 52.0       |  | 7130  | 64.2 |
| Keravat            | ep   | 18.5        |      |            |  | 7150  | 64.3 |
| Skalstugan         | IF   | 19.4        |      |            |  | 7170  | 64.5 |
| Afiyalu            | ep   | 23          | eS   | 17 16      |  | 7320  | 65.9 |
| Honiara            | IF   | 30.2        | iS   | 18         |  | 7355  | 66.2 |
| Nurmijaervi        | IF   | 34.4        | eS   | 22         |  | 7655  | 68.9 |
| Poulkovo           | P    | 34.4        |      |            |  | 7445  | 67.0 |
| Vista Hermosa      | IF   | 37          |      |            |  | 7465  | 67.2 |
| Lillehammer        | IF   | 38.2        |      |            |  | 7455  | 67.1 |
| Talgar             | IF   | 40          | iS   | 36         |  | 7555  | 68.0 |
| Uppsala            | IF   | 41.0        |      |            |  | 7555  | 68.0 |
| Uddeholm           | IF   | 42.2        |      |            |  | 7555  | 68.0 |
| Davao              | ep   | 42.5        |      |            |  | 7570  | 68.1 |
| Presa B. Juarez    | IF   | 44.8        |      |            |  | 7615  | 68.6 |
| Moskva             | ep   | 50          |      |            |  | 7755  | 69.8 |
| Luganville         | epP  | 51.4        |      |            |  | 7775  | 70.0 |
| Frøunze            | IF   | 51.5        |      |            |  | 7730  | 69.6 |
| Lonorore           | IF   | 53.8        |      |            |  | 7785  | 70.1 |
| Goteborg           | IF   | 57.4        |      |            |  | 7825  | 70.4 |
| Port Moresby       | IF   | 59.0        |      |            |  | 7890  | 71.0 |
| Kongsberg          | epP) | 0.905       |      |            |  | 7610  | 68.5 |
| Karlskrona         | IF   | 05.9        |      |            |  | 7985  | 71.9 |
| Kobenhavn          | IF   | 12.0        |      |            |  | 8045  | 72.4 |
| Shillong           | IF   | 17.7        |      |            |  | 8245  | 74.2 |
| Bermuda Columbia   | IF   | 19.5        | iS   | 18 52.0    |  | 8255  | 74.3 |
| Garm               | ep   | 21          |      |            |  | 8285  | 74.6 |
| Valentia           | ep   | 24.0        |      |            |  | 8330  | 75.0 |
| Bensberg           | epP) | 26          | e    | 12 42.5    |  | 8580  | 77.2 |
| Kouliab            | ep   | 26.8        | eS   | 19 05      |  | 8415  | 75.7 |
| Koumac             | ep   | 28.8(D)     |      |            |  | 8390  | 75.5 |
| C dlm              | ep   | 33          | i    | 0.941.3    |  | 8580  | 76.8 |
| Chittagong         | P    | 34          | S    | 19 16      |  | 8525  | 76.7 |
| Nouméa             | IF   | 34.2C       |      |            |  | 8520  | 76.7 |
| Moxa               | ep   | 37          |      |            |  | 8610  | 77.5 |
| Warsak             | P    | 39          |      |            |  | 8675  | 78.1 |
| Krakow             | ep   | 40          | eL   | 41.5 -     |  | 8630  | 77.7 |
| Raciborz           | ep   | 40          |      |            |  | 8640  | 77.8 |
| Pruhonic           | epP  | 41.6        |      |            |  | 8670  | 78.0 |
| Niedzica           | ep   | 42          | epCP | 09.9       |  | 8695  | 78.3 |
| Praha              | ep   | 42          | e    | 49         |  | 8670  | 78.0 |
| Erlangen           | ep   | 43.6C       |      |            |  | 8720  | 78.5 |
| Lahore             | P    | 45          | S    | 49 37      |  | 8760  | 78.8 |

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|                  |     |       |        |     |           |       |      |
|------------------|-----|-------|--------|-----|-----------|-------|------|
| Kasperské Hory   | iP  | 01 09 | 46-0   |     |           | 8770  | 78-9 |
| Stuttgart        | eP  |       | 47-0   |     |           | 8820  | 79-4 |
| Oujgorod         | eP  |       | 47     | esp | 01 10 05  | 8765  | 78-9 |
| Folinigère       | eIP |       | 47-3   |     |           | 8790  | 79-1 |
| Poti             | eP  |       | 48     |     |           |       |      |
| Karlsruhe        | eP  |       | 48-4D  |     |           | 87-55 | 79-2 |
| Bühlerrhöhe      | eP  |       | 48-4   |     |           | 8835  | 79-5 |
| St Sauveur       | eIP |       | 48-5   |     |           | 8810  | 79-3 |
| New Delhi        | iP  |       | 49-0   |     |           | 8855  | 79-7 |
| Wien             | eIP |       | 49-5 C |     |           | 8855  | 79-7 |
| Gorron           | eIP |       | 49-5   |     |           | 8820  | 79-4 |
| Champ du Feu     | eIP |       | 50-4   |     |           | 8865  | 79-8 |
| Strasbourg       | eP  |       | 51     | es  | 01 20-0 - | 8845  | 79-6 |
| Srobarova        | eP  |       | 51-0   |     |           | 88-90 | 80-0 |
| Fürstenfeldbruck | eIP |       | 51     | iPP | 10 06     | 8890  | 80-0 |
| Bratslava        | eIP |       | 51-5   | i   | 0 058-5   | 8855  | 79-7 |
| Welschbruch      | eP  |       | 51-5   |     |           | 8860  | 79-8 |
| Iasy             | P   |       | 52     |     |           | 8855  | 79-7 |
| Handompré        | eIP |       | 52-2   |     |           | 8905  | 80-2 |
| Kizyl Arvat      | eP  |       | 54     |     |           | 88-90 | 80-0 |
| Chartes Towers   | iP  |       | 55-8   | iS  | 20 00     | 8-90  | 80-9 |
| Budapest         | eP  |       | 56     |     |           | 8920  | 80-3 |
| Sommée Lormes    | eIP |       | 56-5   |     |           | 8980  | 80-8 |
| Garchy           | eP  |       | 56-6   | e   | 10 10-0   | 8975  | 80-8 |
| Basel            | P   |       | 57     |     |           | 8960  | 80-6 |
| St Saulge        | eIP |       | 57-6   |     |           | 8-90  | 80-9 |
| Les Buteaux      | eIP |       | 58-0   |     |           | 9010  | 81-1 |
| Kirovabad        | P   |       | 58     |     |           | 9100  | 81-9 |
| Tbilisi          | P   |       | 58     | S   | 20 04     | 9040  | 81-4 |
| Clermont         | eP  |       | 59     | i   | 10 31-5   | 9145  | 82-3 |
| Bakou            | eP  |       | 59     |     |           | 9010  | 81-1 |
| Simferopol       | eP  |       | 59     | es  | 20 07     | 8975  | 80-8 |
| Darwin           | eP  |       | 59-0   | e   | 11 05-0   | 9030  | 81-3 |
| Toulx Ste Croix  | iP  | 10    | 00-6   |     |           | 9080  | 81-7 |
| Vouglans         | eP  |       | 01     | ei  | 10 15-5   | 9085  | 81-7 |
| Bakouriani       | iP  |       | 01-4   | iSP | 09        | 9075  | 81-7 |
| Besançon         | eIP |       | 04-1   |     |           | 8990  | 80-9 |
| Roseland         | eP  |       | 05     | ei  | 41-4      | 9165  | 82-5 |
| Mashad           | eIP |       | 06-0   |     |           | 9035  | 81-3 |
| Campulung        | P   |       | 06     |     |           | 9100  | 81-9 |
| Goris            | eP  |       | 07     | esp | 16        | 9220  | 83-0 |
| Monteynard       | eP  |       | 08     |     |           | 9245  | 83-2 |
| Ljubljana        | eP  |       | 08     | ePP | 13 13     | 9100  | 82-0 |
| Lanslevillard    | eP  |       | 09     | ei  | 10 19-0   | 9210  | 82-9 |
| Quetta           | iP  |       | 09-3C  | es  | 20 28-2   | 9270  | 83-4 |
| Trieste          | iP  |       | 11     | iS  | 14        | 9155  | 82-4 |
| Padova           | eP  |       | 13     |     |           | 9190  | 82-7 |
| Isola            | iP  |       | 13-7   |     |           | 9330  | 84-0 |
| Balboa Heights   | eP  |       | 14-8   | es  | 30        | 9345  | 84-1 |
| Monaco           | eP  |       | 15     |     |           | 9385  | 84-4 |
| Tabriz           | eIP |       | 15     | iS  | 36        | 9370  | 84-3 |
| San Juan         | iP  |       | 16-5   | i   | 43-0      | 9420  | 84-8 |
| Téhéran          | eP  |       | 17     |     |           | 9420  | 84-8 |
| St Paul          | eIP |       | 17-1   |     |           | 9400  | 84-6 |

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|                   |                   |       |       |         |          |       |       |
|-------------------|-------------------|-------|-------|---------|----------|-------|-------|
| Lorgues           | eiP               | 01 10 | 17.7  |         |          | 9410  | 84.7  |
| La Mourre         | eiP               |       | 18.4  |         |          | 9420  | 84.8  |
| Brisbane          | eP                |       | 19    | 1       | 01 20 42 | 9480  | 85.3  |
| Warramunga        | eP                |       | 20.5  |         |          | 9550  | 86.0  |
| Ponta Delgada     | P                 |       | 22    | S       |          | 9505  | 85.5  |
| Istanbul Uti      | eP                |       | (24)  |         |          | 94 55 | 85.5  |
| Porto             | iP                |       | 28.0  | 1S      | 48.0     | 9530  | 85.8  |
| L'Aquila          | eP                |       | 30    | eS      | 50       | 9525  | 85.7  |
| Toledo            | eiP               |       | 30.0  | 1S      | 21 13    | 9735  | 87.6  |
| Roma              | (e)P              |       | 31    | eSKS    | 20 56 5  | 9580  | 86.2  |
| Karachi           | eP                |       | 32.2  |         |          | 9775  | 88.0  |
| Sofia             | e(P)              |       | 33    | e       | 19 33.4  | 9405  | 84.6  |
| Ciné              | iP                |       | 37    |         |          | 9685  | 89.0  |
| Onerahi           | eP                |       | 37    |         |          | 9835  | 88.5  |
| Chiraz            | P                 |       | 39.2  |         |          | 9955  | 89.6  |
| Poona             | iP                |       | 40.0D |         |          | 9980  | 89.8  |
| Caracas           | eP                |       | 43.5D | 1SKS    | 21 16    | 10045 | 90.4  |
| Karapiro          | iP                |       | 44    |         |          | 10055 | 90.5  |
| Malaga            | iP                |       | 46    | 1S      | 40       | 10080 | 90.7  |
| Bogota            | iP                |       | 47.0  | 1S      | 30       | 10090 | 90.8  |
| Quito             | P                 |       | 52.0D | e(S)    | 27       | 10210 | 91.9  |
| Jérusalem         | eP                |       | 56    | e(S)    | 28       | 10355 | 93.2  |
| Trinidad          | eP                |       | 57.0  |         |          | 10390 | 93.5  |
| Ifrane            | eP                |       | 59.5  | e       | 11 08    | 10420 | 93.8  |
| Canberra          | eP                | 11 00 |       | 1S      | 22 09    | 10425 | 93.8  |
| Averroes          | eP                |       | 06    |         |          | 10410 | 93.7  |
| Toolangi          | eP                |       | 16    | eS      | 22 37.0  | 10780 | 97.0  |
| Helwan            | eP                |       | 16    | e       | 21 36    | 10655 | 95.9  |
| Penas             | ePKP              | 16 15 |       | eSKS    | 22 54    | 12280 | 110.5 |
| La Paz            | ePKP              |       | 16.3  | eSKS    | 12 54    | 13220 | 111.0 |
| Lamto             | PKP               |       | 34.2  |         |          | 13400 | 120.6 |
| Bangui            | iPKP <sub>1</sub> |       | 37.8  | 1PP     | 18 12.0  | 13670 | 123.0 |
| Nairobi           | iPKP              |       | 42.0  |         |          | 13780 | 124.0 |
| Butare            | eiPKP             |       | 48.3  | ei(PPS) | 29 55.7  | 14175 | 127.6 |
| Scott Base        | PKP               |       | 51    | PKS     | 20 11    | 14500 | 130.5 |
| Broken Hill       | ePKP              | 17 05 |       | i       | 41       | 15460 | 139.2 |
| South Pole        | ePKP              |       | 06.1  |         |          | 15770 | 142.0 |
| Karoi             | ePKP              |       | 07    | e       | 28 46    | 15670 | 141.0 |
| Sada Bandeira     | PKP               |       | 11.9  |         |          | 15845 | 142.6 |
| Bulawayo          | iPKP              |       | 17    | e       | 21 08    | 16050 | 144.4 |
| Addis Ababa       | ePP               |       | 20    |         |          | 12645 | 113.8 |
| Changalane        | PKP               |       | 27.5  |         |          | 16510 | 148.6 |
| Windhoek          | PKP               |       | 29.1  |         |          | 16630 | 149.7 |
| Novo-Lazarevskaya | ePKP <sub>1</sub> |       | 38.5  |         |          | 17925 | 161.3 |

inscrit à Pavia - M'Bour - Bucaresti - Rabat - Hermanus.

IV. 4 Janvier

Nouvelles Hébrides (Ile Espiritu Santo)  
H = 00h.59mn23s. (Ile Vaté) (Nouméa)

Lonorore eiP 00 59 35.2 1S 00 59 44.5



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|            |     |            |    |          |
|------------|-----|------------|----|----------|
| Luganville | eIP | 00 59 40.3 | 1S | 00 59 53 |
| Port Vila  | eIP | 45.4       | 1S | 57.5     |

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Nouvelles Hébrides (Ile Tanna)

19° S ; 169° 1/2 E ; H = 03h.35mn39s. ; M. = 3.4(Nouméa)

|           |     |            |      |            |
|-----------|-----|------------|------|------------|
| Port Vila | eIP | 03 36 18.9 | 1S   | 03 36 38.5 |
| Nouméa    | eIP | 48.9       | 1(S) | 37 42.5    |

inscrit à Koumac.

VI.- 4 Janvier

Pérou.

9° 5 S ; 75° 5 W ; h = 34km ; H = 03h.39mn26s. (CGS)

M. = 5.1(North Pole); 4.7(Uinta Basin); 4.5(Wichita M.); 4.4(CGS);  
 4.3(Cumberland Pl. - Albuquerque - Tonto Forest); 4.2(Eureka);  
 4.1(Bozeman SSS); 4.0(Blue M.).

|                |      |                      |    |            |       |      |
|----------------|------|----------------------|----|------------|-------|------|
| Huancayo       | 1P   | 03 40 06.8           | 1S | 03 40 44.0 | 280   | 2.5  |
| La Paz         | eP   | 41 40.5              | S  | 44 42.0    | 1110  | 10.0 |
| Penas          | eP   | 42.5                 | S  | 36.8       | 1070  | 9.6  |
| Quito          | eP   | 44.0                 |    |            | 1080  | 9.7  |
| Cochabamba     | eP   | 42 14.0              |    |            |       |      |
| Bogota         | eP   | 45.0                 | e  | 47 09.0    | 1570  | 14.1 |
| Cumberland Pl. | eP   | 47 40.1              |    |            | 5100  | 45.9 |
| Wichita M.     | eP   | 48 05.5              |    |            | 5455  | 49.1 |
| Albuquerque    | eP   | 35.5                 |    |            | 5890  | 53.0 |
| Tucson         | eP   | 36.6                 |    |            | 5945  | 53.5 |
| Tonto Forest   | e(P) | 51.8                 |    |            | 5800  | 52.2 |
| Uinta Basin    | eP   | 49 16.4              |    |            | 6520  | 58.7 |
| Flaming Gorge  | eP   | 18.5                 |    |            | 6570  | 59.1 |
| Eureka         | 1P   | 36.0                 |    |            | 6830  | 61.5 |
| Bozeman SSS    | eP   | 50.0                 |    |            | 7080  | 63.7 |
| Oroville       | 1P   | 57.9                 |    |            | 7200  | 64.8 |
| Blue M.        | eP   | 50 04.1              |    |            | 7320  | 65.9 |
| Newport        | eP   | 19.0                 |    |            | 7580  | 68.2 |
| Nordman        | eP   | 20.0                 |    |            | 7600  | 68.4 |
| Mould Bay      | e(P) | 52 15.5 <sup>C</sup> |    |            | 9380  | 84.4 |
| North Pole     | eP   | 15.6                 |    |            | 9930  | 89.4 |
| College        | eP   | 23.0                 |    |            | 10130 | 91.2 |

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Ilot Mathew.

23°0 S ; 171°0 E ; H = 04h.44<sup>mn</sup>05<sup>s.</sup> ; M. = 3.8 (Nouméa)

|          |     |            |      |          |
|----------|-----|------------|------|----------|
| Ouanaham | iP  | 04 45 01.7 | C 1S | 04 45 47 |
| Nouméa   | iP  | 08.3       | C 1S | 57       |
| Koumac   | eIP | 42.5       | 1S   | 46 58    |

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Haute Silésie

|          |     |            |         |            |
|----------|-----|------------|---------|------------|
| Dabrova  | e   | 06 13 34.6 |         |            |
| Chorzow  | eP  | 34.7       |         |            |
| Krakow   | ePg | 45.6       | eSg     | 06 13 53.6 |
| Niedzica | ePg | 56.8       | eI (Sg) | 14 16.5    |

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Mer de Norvège.

H = 06h.39.4<sup>m.</sup> (Uppsala)

|             |    |          |  |
|-------------|----|----------|--|
| Kiruna      | eP | 06 41 22 |  |
| Skalstugan  | iP | 37.3     |  |
| Kevo        | eP | 40       |  |
| Sodankylä   | eP | 51       |  |
| Umeå        | iP | 42 00.0  |  |
| Lillehammer | eP | 08       |  |
| Oulu        | eP | 09       |  |
| Uddeholm    | iP | 24.5     |  |
| Kajaani     | iP | 26.1     |  |
| Nurmijaerwi | eP | 54       |  |

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Espagne méridionale

37°7 N ; 2°0 W ; H = 06h.42<sup>mn</sup>10<sup>s.</sup> (BCIS)

37°8 N ; 2°55 W ; h = 33<sup>km</sup> ; H = 06h.42<sup>mn</sup>10<sup>s.</sup> (Madrid)

M. = 5.0 (Madrid)

|          |      |            |     |            |     |     |
|----------|------|------------|-----|------------|-----|-----|
| Almería  | iPg  | 06 42 29.1 | eSg | 06 42 39.7 | 100 | 0.9 |
| Alicante | ePn  | 40.4       | Sn  | 43 08.7    | 230 | 2.1 |
| Malaga   | iPg  | 46         | 1S  | 11         | 240 | 2.2 |
| Toledo   | iPg  | 56.9       | 1Sn | 27.3       | 300 | 2.7 |
| Tortosa  | eP   | 43 11      | eSn | 57         | 405 | 3.7 |
| Ifrane   | Pn   | 27         | Sn  | 44 19      | 545 | 4.9 |
| Bagnères | eIPn | 35         |     |            | 625 | 5.6 |
| Logrono  | ePg  | 36         | eS  | 38         | 530 | 4.8 |
| Averroes | ePn  | 43         | eSn | 51         | 690 | 6.2 |

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|             |     |            |               |     |     |
|-------------|-----|------------|---------------|-----|-----|
| Le Pouchou  | eP  | 06 43 59.5 |               | 820 | 7.4 |
| La Frestale | ePn | 44 03.4    |               | 835 | 7.5 |
| Archignac   | ePn | 04.2       |               | 855 | 7.7 |
| Lisboa      | Sn  | 35.5       | Sg 06 45 17.5 | 635 | 5.7 |

ressenti à Cartuja - ~~Fabra~~ Garchy.

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Colombie.

2°6 N ; 75°0 W ; h = 72<sup>km</sup> ; H = 08h.09<sup>mn</sup>19<sup>s</sup>. (CGS)

ressenti à Neiva.

M. = 5.3(Caracas); 4.3(Wichita M.); 4.2(CGS); 3.8(Uinta Basin);  
3.3(Tonto Forest)

|                |      |            |      |            |      |      |
|----------------|------|------------|------|------------|------|------|
| Bogota         | 1P   | 08 09 54.5 | 1S   | 08 10 23.5 | 255  | 2.3  |
| Quito          | ePg  | 10 39      | eS   | 11 37      | 490  | 4.4  |
| Caracas        | eP   | 12 00      | e    | 15 18      | 1255 | 11.3 |
| Huancayo       | eP   | 43.0       |      |            | 1610 | 14.5 |
| La Paz         | eP   | 13 50.0    |      |            | 2245 | 20.2 |
| Penas          | eP   | 52.0       | e    | 19 00.0    | 2200 | 19.8 |
| Cumberland Pl. | eP   | 16 10.2    |      |            | 3810 | 34.3 |
| Wichita M.     | e(P) | 45.7       |      |            | 4310 | 38.8 |
| Tonto Forest   | eP   | 17 39.3    | e(P) | 17 47.5    | 5130 | 46.2 |
| Uinta Basin    | eP   | 53.8       |      |            | 5430 | 48.9 |

XII.- 4 Janvier

Région du Lac Hebgen (USA)

44°8 N ; 111°3 W ; h = 33<sup>km</sup> ; H = 09h.04<sup>mn</sup>05<sup>s</sup>. (CGS)

|              |     |            |     |            |     |     |
|--------------|-----|------------|-----|------------|-----|-----|
| Bozeman SSS  | eP  | 09 04 19.6 | 1L  | 09 04 34.0 | 90  | 0.8 |
| Butte        | ePn | 31.8       | eLg | 53.3       | 170 | 1.5 |
| Blue M.      | ePn | 05 08.9    |     |            | 480 | 4.3 |
| Hungry Horse | eP  | 12.5       |     |            | 445 | 4.0 |
| Uinta Basin  | eP  | 16.0       | eLg | 06 13.5    | 520 | 4.7 |

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Sud de Hondo (Japon)

31°6 N ; 133°3 E ; h = 372<sup>km</sup> ; H = 09h.45<sup>mn</sup>32.8<sup>s</sup>. (CGS)

M. = 4.4(Uinta Basin); 4.3(CGS)

|             |    |            |  |     |     |
|-------------|----|------------|--|-----|-----|
| Oishiyama   | 1P | 09 46 40.4 |  | 400 | 3.6 |
| Wakaura     | eP | 41.4       |  | 410 | 3.7 |
| Kyosumi     | eP | 42.0       |  | 430 | 3.9 |
| Dodaira     | 1P | 48.3       |  | 500 | 4.5 |
| Mt. Tsukuba | 1P | 50.3       |  | 545 | 4.9 |

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|               |      |                   |      |          |       |       |
|---------------|------|-------------------|------|----------|-------|-------|
| Matsushiro    | iP   | 09 46 53.5        | S    | 09 47 57 |       |       |
| Shiraki       | eP   | 47 00.8           |      |          | 620   | 5.6   |
| Warramunga    | eP   | 54 03             |      |          | 5710  | 51.4  |
| College       | eP   | 29.5              |      |          | 6120  | 55.1  |
| Quetta        | eP   | 55 03.0           |      |          | 6690  | 60.2  |
| Mould Bay     | eP   | 19.0              |      |          | 6945  | 62.5  |
| Sodankylä     | iP   | 59.0              |      |          |       |       |
| Kajaani       | eP   | 56 07             |      |          |       |       |
| Oulu          | eP   | 08                |      |          |       |       |
| Kiruna        | iP   | 09.5              |      |          |       |       |
| Chiraz        | P    | 16.0              |      |          | 7945  | 71.5  |
| Uméa          | iP   | 23.4              |      |          |       |       |
| Nurmi jaerwi  | iP   | 26.3              |      |          |       |       |
| Newport       | eP   | 40.0              |      |          | 8430  | 75.9  |
| Nordman       | eP   | 40.0              |      |          | 8420  | 75.8  |
| Uppsala       | iP   | 43.5              |      |          |       |       |
| Uddeholm      | iP   | 51.1 <sup>C</sup> |      |          |       |       |
| Goldstone     | eP   | 57 19             | e    | 09 57 25 | 9230  | 83.1  |
| Flaming Gorge | eP   | 28.0              |      |          | 9400  | 84.6  |
| Uinta Basin   | eP   | 28.8              | epP  | 58 54.8  | 9420  | 84.8  |
| Lamto         | PKP  | 10 03 57.8        |      |          | 14300 | 128.7 |
| La Paz        | ePKP | 04 37.5           |      |          |       |       |
| Penas         | ePKP | 39                | DPKP | 10 06 27 | 17030 | 153.3 |

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Région frontrière Californie - Nevada

36° 4' N ; 117° 1' W ; h = 35 km ; H = 09h.45mn43.9s. (CGS)

M. = 4.5 (Uinta Basin) ; 4.1 (CGS) ; 3.8 (Tonto Forest) ; 3.3/4 (Pasadena)

|              |     |                   |     |            |     |     |
|--------------|-----|-------------------|-----|------------|-----|-----|
| China Lake   | P   | 09 45 57.9        |     |            | 80  | 0.7 |
| Cotton Wood  | P   | 59.5              | S   | 09 46 09.9 | 90  | 0.8 |
| Tinemaha     | P   | 46 03.3           | S   | 22.3       | 120 | 1.1 |
| Isabella     | iP  | 04.6              | iS  | 19.5       | 145 | 1.4 |
| Goldstone    | P   | 04.8              | S   | 19.5       | 130 | 1.2 |
| Tonopah      | iP  | 11.0              |     |            | 180 | 1.6 |
| Woody        | iP  | 11.4              |     |            | 180 | 1.6 |
| Las Vegas    | iP  | 15.4              | eS  | 40.0       | 180 | 1.6 |
| Nina         | ePh | 18.4              | eLg | 47.0       | 245 | 2.2 |
| Pasadena     | iP  | 23.0              | iS  | 47 02.8    | 280 | 2.5 |
| Eureka       | eP  | 32.2 <sup>D</sup> | iS  | 08.2       | 355 | 3.2 |
| Priest       | eP  | 33.0              |     |            |     |     |
| Jamestown    | eP  | 33.1              |     |            |     |     |
| San Luis Dam | ePh | 42.0              | iPg | 46 46.1    | 380 | 3.4 |
| Mt. Hamilton | eP  | 44.6              |     |            |     |     |
| Unionville   | iP  | 45.3              |     |            | 455 | 4.1 |
| Glen Canyon  | eP  | 47 00.1           | e   | 47 02.5    | 500 | 4.5 |
| Tonto Forest | ePh | 02.8              | eLg | 48 30.0    | 580 | 5.2 |
| Oroville     | iP  | 07.6              |     |            | 520 | 4.7 |

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|                |      |       |                   |     |          |     |     |
|----------------|------|-------|-------------------|-----|----------|-----|-----|
| Mineral        | eP   | 09 47 | 16.8 <sup>D</sup> | i   | 09 48 21 |     |     |
| Tucson         | eP   |       | 20.8              |     |          | 745 | 6.7 |
| Uinta Basin    | ePn  |       | 29.5              | eLg | 49 16.5  | 790 | 7.1 |
| Salt Lake City | e(P) |       | 33.4              | e   | 48 44.4  | 870 | 6.0 |
| Blue M.        | ePn  |       | 55.5              |     |          | 930 | 8.4 |
| Albuquerque    | e(P) | 48    | 10.8              |     |          | 980 | 8.8 |

XV.- 4 Janvier

Nicaragua.

12° 1 N ; 86° 3 W ; h = 5km ; H = 10h.03mm56.5s. (CGS)

Ressenti à Masaya, Granada et Carazo. Dégats à Marragua dans les faubourgs sud de la ville.

M. = 5.9 (Balboa Heights); 5.2 (San Juan); 4.6 (Wichita M. - Cumberland Pl. - CGS); 4.4 (Uinta Basin - Eureka); 4.2 (Bozeman SSS - Tonto Forest); 4.0 (Blue M.).

|                   |       |       |                   |      |            |       |       |
|-------------------|-------|-------|-------------------|------|------------|-------|-------|
| San Salvador      | eP    | 10 04 | 50.3              | iS   | 10 05 30.3 | 370   | 3.3   |
| Balboa Heights    | e(P)  | 05    | 53.6              | eS   | 07 17.6    | 810   | 7.3   |
| Presa B. Juarez   | i(P)  | 06    | 21.5              |      |            | 980   | 9.8   |
| Vista Hermosa     | iP    |       | 46                |      |            |       |       |
| Bogota            | eP    | 07    | 24.0              | e(S) | 10 20.0    | 1580  | 14.2  |
| Nat.Univ.Mexico   | e(P)  |       | 34                |      |            | 1590  | 14.3  |
| Quito             | eP    |       | 39                | e(P) | 46         |       |       |
| Presa Infiernillo | eP    |       | 45                |      |            | 1810  | 16.3  |
| Leon              | e(PP) | 08    | 23.0              |      |            | 1910  | 17.2  |
| San Juan          | e(P)  |       | 43.2              |      |            | 2255  | 20.3  |
| Cumberland Pl.    | eP    | 09    | 09.3              |      |            | 2600  | 23.4  |
| Wichita M.        | eP    |       | 23.7              | e    | 14 04      | 2790  | 25.1  |
| Lubbock           | eP    |       | 30.0              |      |            | 2855  | 25.7  |
| Huancayo          | eP    |       | 44.0              |      |            | 2920  | 26.3  |
| Albuquerque       | e     | 10    | 01.5              |      |            | 3245  | 29.2  |
| Tonto Forest      | eP    |       | 25.0              | e    | 11 15.4    | 3520  | 31.7  |
| Penas             | eP    |       | 31.8              | e    | 13 12.8    |       |       |
| La Paz            | eP    |       | 32                |      |            |       |       |
| Uinta Basin       | eP    |       | 50.5              |      |            | 3870  | 34.8  |
| Brébeuf           | eP    |       | 52                |      |            | 3890  | 35.0  |
| Flaming Gorge     | eP    |       | 52.5              |      |            | 3910  | 35.2  |
| Eureka            | iP    | 11    | 17.8              |      |            | 4210  | 37.9  |
| Bozeman SSS       | eP    |       | 32.5              |      |            | 4410  | 39.7  |
| Blue M.           | eP    |       | 49.3              |      |            | 4670  | 42.0  |
| Edmonton          | eP    | 12    | 25.0              |      |            | 5156  | 46.4  |
| Resolute          | eP    | 14    | 22.2 <sup>D</sup> |      |            | 6970  | 62.7  |
| Mould Bay         | eP    |       | 47.9 <sup>D</sup> |      |            | 7390  | 66.5  |
| College           | eP    |       | 51.5              |      |            | 7470  | 67.2  |
| Gilmore Creek     | eP    |       | 52.6              |      |            | 7455  | 67.1  |
| Chittagong        | ePKP  | 23    | 26                |      |            | 16190 | 145.7 |

Inscrit à Merida - Comitán - Vera Cruz - Tacubaya.

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Italie Centrale

42°4 N ; 12°8 E ; H = 10h.23<sup>mn</sup>34s. (BCIS)  
 42°5 N ; 12°5 E ; H = 10h.23<sup>mn</sup>32s. (ING)

Res senti dans la région de Rieti et Terni. VI à Tarano ; V - VI à Collevocchio ; IV à Stimigliano (Rieti)  
 Plusieurs répliques le 5 Janvier à 06h.07<sup>mn</sup>, 06h.20<sup>m.</sup>, 06h.35<sup>mn</sup>, 11h.00<sup>mn</sup>

|                   |      |                   |     |          |     |     |
|-------------------|------|-------------------|-----|----------|-----|-----|
| Roma              | ePg  | 10 23 43.0        | iSg | 10 23 51 | 60  | 0.5 |
| Trieste           | iPn  | 24 27.2           | iSg | 25 24.5  | 375 | 3.4 |
| Ljubljana         | ePn  | 35                | eSn | 20       | 430 | 3.8 |
| St. Paul en Foret | eiPn | 41.8              |     |          | 515 | 4.6 |
| La Murre          | eiPn | 42.8              |     |          | 525 | 4.7 |
| Lorgues           | eiPn | 45.1              |     |          | 540 | 4.8 |
| Lanslevillard     | eiPn | 52.5              | ei  | 24 58.1  | 570 | 5.1 |
| Roselend          | eiPn | 58.4              | ei  | 25 05.9  | 615 | 5.5 |
| Monteynard        | eiPn | 25 01.5           |     |          | 640 | 5.8 |
| Wien              | ePn  | 11                | iSn | 26 22    | 705 | 6.4 |
| Kasperské Hory    | eiP  | 14                |     |          | 750 | 6.8 |
| Champ du Feu      | eiP  | 18.4              |     |          | 795 | 7.1 |
| Haudompré         | eiPn | 20.4              |     |          | 800 | 7.2 |
| Erlangen          | ePn  | 21.8 <sup>D</sup> |     |          | 820 | 7.4 |
| Pruhonice         | ePn  | 28                | eS  | 26 49    | 855 | 7.7 |

inscrit à Fürstenfeldbruck - Collm - Padova.

XVII.- 4 Janvier

Région Est de la Nouvelle Guinée

9°9 S ; 148°9 E ; h = 19km ; H = 10h.27<sup>mn</sup>37.7s. (CGS)  
 9°9 S ; 148°7 E ; H = 10h.27<sup>mn</sup>40s. (URSS)  
 H = 10h.27<sup>mn</sup>32s. (Rabaul)

M. = 6.2 (Rabaul) ; 5.9 (College) ; 5.8 (Mundaring) ; 5.7 (Berkeley - Palmer) ;  
 5.6 (Lembang) ; 5.5 (URSS) ; 5.4 (CGS - Kalgoorlie) ; 5.3 (North Pole) ;  
 5.1 (Mt. Tsukuba) ; 5.0 (Eureka) ; 4.8 (Uinta Basin) ; 4.7 (Tonto Forest)

|                 |     |                         |    |          |      |      |
|-----------------|-----|-------------------------|----|----------|------|------|
| Port Moresby    | iP  | 10 28 08.0 <sup>D</sup> | eS | 10 28 35 | 200  | 1.8  |
| Lae             | eP  | 37                      |    |          | 420  | 3.8  |
| Goroka          | eP  | 29 01                   |    |          | 570  | 5.1  |
| Keravat         | eP  | 10.5 <sup>D</sup>       | iS | 30 25.5  |      |      |
| Rabaul          | eiP | 13.5 <sup>D</sup>       | iS | 32.0     | 730  | 6.6  |
| Sulphur         | eP  | 15 <sup>D</sup>         |    |          |      |      |
| Wanliss Street  | iP  | 15.0 <sup>D</sup>       |    |          |      |      |
| Rabalanakala    | iP  | 15.5                    |    |          |      |      |
| Charters Towers | iP  | 30 09.2                 | iS | 32 16    | 1155 | 10.4 |

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|                   |    |       |                     |    |          |      |      |
|-------------------|----|-------|---------------------|----|----------|------|------|
| Honiara           | eP | 10 30 | 20 <sup>C</sup>     | e  | 10 33 04 | 1210 | 10*9 |
| Warramunga        | eP |       | 31*5                |    |          |      |      |
| Darwin            | eP | 31    | 46*0                | e  | 37 38    | 1990 | 17*9 |
| Brisbane          | iP |       | 47*7                | iS | 5 17     | 1980 | 17*8 |
| Koumac            | iP |       | 55*9 <sup>C</sup>   |    |          |      |      |
| Luganville        | iP |       | 58*3 <sup>(D)</sup> |    |          |      |      |
| Lonorore          | iP | 32    | 12*2 <sup>D</sup>   |    |          |      |      |
| Port Vila         | iP |       | 16*5 <sup>D</sup>   |    |          |      |      |
| Nouméa            | iP |       | 22*2 <sup>C</sup>   |    |          |      |      |
| Giam              | eP |       | 48*0                | eS | 37 06*0  | 2620 | 23*6 |
| Canberra          | eP | 33    | 06                  | iS | 38       |      |      |
| Toolangi          | eP |       | 27*0                | eS | 38 13*0  | 3080 | 27*7 |
| Davao             | iP |       | 36*0                | iS | 24*0     | 3190 | 28*7 |
| Kalgoorlie        | iP | 34    | 11*9 <sup>D</sup>   |    |          | 3655 | 32*9 |
| Meekatharra       | iP |       | 13*9 <sup>C</sup>   |    |          |      |      |
| Mundaring         | iP |       | 50*7 <sup>C</sup>   |    |          | 4145 | 37*3 |
| Baguio            | iP |       | 57*5                | iS | 40 52*0  | 4255 | 38*3 |
| Wellington        | eP | 35    | 00                  | eS | 41 00    | 4300 | 38*7 |
| Monowai           | eP |       | 05                  |    |          |      |      |
| Lembang           | iP |       | 21*0                |    |          | 4545 | 40*9 |
| Kyosumi           | eP | 36    | 00*8                |    |          | 5070 | 45*6 |
| Oishiyama         | eP |       | 01*0                |    |          | 5070 | 45*6 |
| Shiraki           | eP |       | 05*2                |    |          | 5200 | 46*8 |
| Dodaira           | eP |       | 06*2                |    |          | 5180 | 46*5 |
| Mt. Tsukuba       | eP |       | 08*7                |    |          | 5180 | 46*6 |
| Matsushiro        | iP |       | 10*8                | S  | 43 04    |      |      |
| Hong Kong         | iP |       | 11*0 <sup>C</sup>   | iS | 01*0     | 5190 | 46*7 |
| Seoul             | eP |       | 45*4                |    |          | 5720 | 51*5 |
| Vladivostok       | eP | 37    | 16                  |    |          |      |      |
| Youjno Sakhalinsk | eP |       | 26                  |    |          |      |      |
| Terre Adélie      | eP |       | 28*0                |    |          | 6330 | 57*0 |
| Chittagong        | eP | 38    | 16                  |    |          |      |      |
| Mimry             | eP |       | 35                  | eS | 47 31    |      |      |
| Scott Base        | eP |       | 39                  | S  | 51       | 7610 | 68*5 |
| Adak              | dP |       | 40*0                |    |          | 7600 | 68*4 |
| Magadan           | eP |       | 44                  | eS | 52       |      |      |
| Yakoutska         | eP | 39    | 09                  |    |          |      |      |
| New Dehli         | eP |       | 42*0                | i  | 43 13*0  | 8780 | 79*0 |
| Poona             | iP |       | 43*5 <sup>D</sup>   |    |          | 8800 | 79*2 |
| South Pole        | eP |       | 48*5                |    |          | 8910 | 80*2 |
| Tiksi             | iP |       | 58                  |    |          |      |      |
| Big Mountain      | eP |       | 58*0                |    |          | 9130 | 82*2 |
| Sparrevohn        | iP | 40    | 03*3                |    |          | 9220 | 83*0 |
| Talgar            | iP |       | 07 <sup>C</sup>     |    |          |      |      |
| Warsak            | P  |       | 14                  |    |          |      |      |
| Frounze           | eP |       | 15*5                |    |          |      |      |
| Palmer            | eP |       | 16*7                |    |          | 9545 | 85*9 |
| Mt. Sheep Creek   | eP |       | 22*0                |    |          | 9645 | 86*8 |
| Tanana            | iP |       | 23*0                |    |          | 9630 | 86*7 |
| Garm              | eP |       | 24                  |    |          |      |      |
| College           | iP |       | 26*3                |    |          | 9790 | 88*1 |

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|                   |                   |                   |     |            |       |       |
|-------------------|-------------------|-------------------|-----|------------|-------|-------|
| Gilmore Creek     | eP                | 10 40 26.9        |     |            | 9800  | 88.2  |
| Pedro Dome        | eP                | 27.0              |     |            | 9800  | 88.2  |
| Black Rapids      | iP                | 28.2              |     |            | 9800  | 88.2  |
| Quetta            | eP                | 28.5 <sup>C</sup> |     |            | 9780  | 88.0  |
| Barrow            | eP                | 30.5              |     |            | 9855  | 88.7  |
| Novo Lazarevskaya | eP                | 58                |     |            |       |       |
| Mashad            | eP                | 41 02             |     |            |       |       |
| Berkeley          | eP                | 03.0 <sup>C</sup> |     |            | 10570 | 95.1  |
| Mt. Hamilton      | eP                | 04.2              |     |            |       |       |
| Afiamalú          | eS                | 41.1 --           |     |            |       |       |
| San Luis Dam      | eP                | 06.0              |     |            | 10645 | 95.8  |
| Mineral           | eP                | 06.2              |     |            |       |       |
| Oroville          | eP                | 06.4              |     |            | 10655 | 95.9  |
| Jamestown         | eP                | 08.3 <sup>C</sup> |     |            | 10730 | 96.6  |
| Priest            | eP                | 08.9              |     |            | 10680 | 96.1  |
| Sverdlovsk        | eP                | 19                |     |            |       |       |
| China Lake        | P                 | 20                |     |            | 10955 | 98.6  |
| Mould Bay         | eP                | 21.0              |     |            | 11110 | 100.0 |
| Blue M.           | eP                | 21.8              |     |            | 11070 | 99.6  |
| Newport           | eP                | 22.0              |     |            | 11110 | 100.0 |
| North Pole        | eP                | 22.3              |     |            | 11110 | 100.0 |
| Nordman           | eP                | 23.0              |     |            | 11120 | 100.1 |
| Eureka            | iP                | 25.9              |     |            | 11130 | 100.2 |
| Uinta Basin       | eP                | 45.7              | ePP | 10 46 08.4 | 11680 | 105.2 |
| Tonto Forest      | eP                | 46.8              | ePP | 00.7       | 11510 | 103.6 |
| Kiruna            | iPKP              | 46 14.7           |     |            |       |       |
| Nairobi           | ePKP              | 15.0              |     |            | 12390 | 111.5 |
| Bilawayo          | ePKP              | 17                |     |            |       |       |
| Wichita M.        | PKP               | 17.3              | ePP | 47 19.2    | 12680 | 114.1 |
| Uméa              | iPKP              | 18.9              | iSS | 11 03 20   |       |       |
| Karoi             | ePKP              | 19                |     |            |       |       |
| NurmiJaerwi       | ePKP              | 21                | eSS | 18         |       |       |
| Broken Hill       | ePKP              | 23                |     |            |       |       |
| Skalstugan        | iPKP              | 25                |     |            |       |       |
| Butare            | iPKP              | 27.5              |     |            |       |       |
| Frobisher         | PKP               | 28.0              |     |            | 13345 | 120.1 |
| Ciné              | ePKP              | 31                |     |            |       |       |
| Oujgorod          | ePKP <sup>1</sup> | 32                |     |            |       |       |
| Niedzica          | ePKP              | 33                |     |            |       |       |
| Bratislava        | ePKP              | 36.5              |     |            | 13830 | 124.5 |
| Cumberland Pl.    | PKP               | 46.8              |     |            | 13830 | 124.5 |
| Collm             | ePKP              | 38                |     |            | 13910 | 125.2 |
| Wien              | ePKP              | 39                |     |            |       |       |
| Moxa              | ePKP              | 39.5              |     |            | 14030 | 126.3 |
| Pruhonice         | ePKP              | 40                |     |            | 13900 | 125.1 |
| Kasperské Hory    | ePKP              | 40.5              |     |            | 14010 | 126.1 |
| Ljubljana         | ePKP              | 41                |     |            |       |       |
| Sada Bandeira     | PKP               | 48.3              |     |            | 14370 | 129.3 |
| Bangui            | iPKP <sup>1</sup> | 50.4              |     |            | 14490 | 130.4 |
| Addis Ababa       | ePP               | 51                |     |            |       |       |
| Huancayo          | PKP               | 53.0              |     |            | 14555 | 131.0 |
| Penas             | PKP               | 57.7              | eSS | 07 30      | 14880 | 134.8 |



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|             |      |            |     |          |       |       |  |
|-------------|------|------------|-----|----------|-------|-------|--|
| Jérusalem   | iPKP | 10 46 59.4 |     |          |       |       |  |
| La Paz      | PKP  | 47 00.5    |     |          |       |       |  |
| Tamanrasset | ePKP | 12         | PKS | 10 50 33 |       |       |  |
| San Juan    | PKP  | 14.2       |     |          | 16120 | 145.1 |  |
| Lisboa      | PKP  | 16.3       |     |          |       |       |  |
| Ifrane      | PKP  | 20.1D      | M!  | 47 25    | 16280 | 146.5 |  |
| Rabat       | PKP  | 23         |     |          | 16370 | 147.3 |  |
| Averroes    | PKP  | 24.5       | e   | 33       | 16455 | 148.1 |  |
| Trinidad    | PKP  | 30.1       |     |          | 16690 | 150.2 |  |
| Lamto       | PKP  | 38.1       |     |          | 17100 | 153.9 |  |

Inscrit à Toledo, Hermanus, Strasbourg, M'Bour, Kevo

XVIII. 4 Janvier  
Région Est de la Nouvelle Guinée

10°0S, 148°9E

h = 33 km

H = 12<sup>h</sup>05<sup>mn</sup>45.8<sup>s</sup> (CGS)

H = 12<sup>h</sup>05<sup>mn</sup>46<sup>s</sup> (Rabaul)

M = 5.6 (Rabaul)

|                 |    |             |    |          |       |      |
|-----------------|----|-------------|----|----------|-------|------|
| Port Moresby    | iP | 12 06 15.0D | eS | 12 06 40 | 200   | 1.8  |
| Keravat         | iP | 07 20.5     | iS | 08 33.5  | 710   | 6.4  |
| Rabaul          | eP | 22D         |    |          | 730   | 6.6  |
| Charters Towers | eP | 08 15       |    |          | 1155  | 10.4 |
| Warramunga      | eP | 0 344       |    |          | 1910  | 17.2 |
| Darwin          | eP | 54.0        | e  | 12 04.0  | 1 990 | 17.9 |
| South Pole      | eP | 17 55.5     |    |          | 8900  | 80.1 |
| College         | eP | 18 34.0     |    |          | 9790  | 88.1 |

XIX. 4 Janvier  
Région des îles Kermadec

3°0'4S, 177°6W

h = 23 km

H = 12<sup>h</sup>33<sup>mn</sup>52<sup>s</sup> (CGS)

M = 4.3 (CGS)

Tonto Forest).

|                 |        |          |        |            |       |       |
|-----------------|--------|----------|--------|------------|-------|-------|
| Raoul Island    | iP     | 12 34 12 |        |            | 120   | 1.1   |
| Brisbane        | iP     | 39 25.9  |        |            | 2890  | 28.0  |
| Charters Towers | iP     | 40 36.7  |        |            | 3790  | 34.1  |
| Warramunga      | eP     | 42 03.0  |        |            | 4930  | 44.4  |
| South Pole      | eP     | 43 57.4  |        |            | 6645  | 59.8  |
| China Lake      | P      | 46 36.0  |        |            | 9630  | 86.7  |
| Tonto Forest    | eP     | 50.2     |        |            | 9970  | 89.7  |
| Blue M.         | eP     | 47 17.0  |        |            | 10310 | 92.8  |
| Uinta Basin     | eP     | 26.4     |        |            | 10490 | 94.4  |
| Kajaani         | ePKP   | 53 23    |        |            | 15845 | 142.6 |
| Oulu            | ePKP   | 25       |        |            |       |       |
| Uméa            | iPKP   | 29.4     |        |            |       |       |
| NurmiJaervi     | ePKP   | 30       |        |            | 16270 | 146.4 |
| Skalstugan      | iPKP   | 32.8     |        |            |       |       |
| Uppsala         | iPKP   | 40.8     |        |            | 16530 | 148.8 |
| Bangui          | iPKP 1 | 41.2     | 1 (PP) | 12 57 35.1 | 16670 | 150.0 |
| Uddeholm        | iPKP   | 43.4     |        |            |       |       |

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Haute Silésie (Pologne)

|          |     |          |     |          |
|----------|-----|----------|-----|----------|
| Raciborz | e   | 13 06 08 |     |          |
| Zabrze   | e   | 22.6     |     |          |
| Dabrova  | e   | 26.7     |     |          |
| Niedzica | eIP | 47.5 D   | eSg | 13 07 05 |
| Krakow   | eSg | 47.6     | eI  | 10.6     |

XXI. 4 janvier  
Pres de la côte, région Nord du Chili

21°5S, 70°7W h = 44km H = 14h48mn30.3S (CGS)

M = 5.9 (Bangui), 4.9 (Albuquerque, CGS), 4.8 (Tonto Forest, Uinta Basin), 4.7 (Blue M), 4.6 (Wichita M, Eureka).

|                   |      |             |      |            |       |       |
|-------------------|------|-------------|------|------------|-------|-------|
| Antofagasta       | iP   | 14 4 904.2C | i(S) | 14 49 37   | 245   | 2.2   |
| La Paz            | eP   | 53.5        | S    | 50 57.0    | 610   | 5.5   |
| Penas             | eP   | 55.6        | S    | 51 03.2    | 620   | 5.6   |
| Huancayo          | eP   | 51 06.0     |      |            | 1150  | 10.4  |
| Nana              | eP   | 0 90        |      |            | 1245  | 11.2  |
| Peldehue          | eP   | 11          | e(S) | 5 346      |       |       |
| Quito             | P    | 53 32.5C    | S    | 57 38      | 2500  | 22.5  |
| Bogota            | eP   | 54 04.0     | eS   | 58 28.0    | 2910  | 26.2  |
| Vista Hermosa     | iP   | 58 55       |      |            |       |       |
| Presa Infiernillo | eP   | 57 22       |      |            |       |       |
| Cumberland Pl     | eP   | 58 22.6     |      |            | 6500  | 58.5  |
| Wichita M.        | eP   | 45.8        |      |            | 6880  | 61.9  |
| Tulsa             | iP   | 47.0D       |      |            | 6880  | 61.9  |
| Albuquerque       | eP   | 59 12.8     | e    | 59 24.0    | 7290  | 65.6  |
| Tucson            | eP   | 13.2        | e    | 25.5       | 7320  | 65.9  |
| Brébeuf           | eP   | 19          |      |            | 7420  | 66.8  |
| Tonto Forest      | eP   | 25.6        |      |            | 7510  | 67.6  |
| South Pole        | iP   | 32.0        |      |            | 7620  | 68.6  |
| Lanto             | P    | 38.0        |      |            | 7780  | 70.0  |
| Uinta Basin       | eP   | 48.4        | ePCP | 59.2       | 7930  | 71.4  |
| Pasadena          | eP   | 50          |      |            | 7 945 | 71.5  |
| Eureka            | iP   | 15 00 04.8  |      |            | 8220  | 74.0  |
| Oroville          | iP   | 22.1        |      |            | 8570  | 77.1  |
| Blue M.           | eP   | 29.6        | e    | 15 00 11.3 | 8730  | 78.6  |
| Sa da Bandeira    | iP   | 34.7        |      |            | 8820  | 79.4  |
| Hungry Horse      | eP   | 35.0        |      |            | 8845  | 79.6  |
| Newport           | eP   | 41.0        |      |            | 8990  | 80.9  |
| Nordman           | eP   | 41.0        |      |            | 9010  | 81.1  |
| Edmonton          | eP   | 52.0        |      |            | 9230  | 83.1  |
| Tamanrasset       | eP   | 01 10C      |      |            |       |       |
| Bangui            | iP   | 31.7        | iPP  | 05 04.8    | 10100 | 90.9  |
| Bulawayo          | eP   | 32          |      |            |       |       |
| Karoi             | eP   | 46          |      |            |       |       |
| Warramunga        | ePKP | 07 42.5     |      |            |       |       |
| Mt Tsukuba        | PKP  | 08 18.0     |      |            | 16610 | 149.5 |
| New Delhi         | PKP  | 19.0        |      |            | 16690 | 150.2 |
| Kyosumi           | PKP  | 1 98        |      |            | 16645 | 149.8 |
| Dodaira           | PKP  | 20.1        |      |            | 16690 | 150.2 |
| Matsushiro        | iPKP | 20.2        |      |            |       |       |

Inscrit à M' Bour, Toledo.

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 XXII. 4 janvier  
 Région de Chipinga (Rhodésie)  
 H = 15<sup>h</sup>57<sup>mn</sup>19<sup>s</sup>  
 M = 2.8 (Bulawayo)

20° 1S, 32° 6E

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Bulawayo    | ePn | 15 53 16 | eSg | 15 59 15 |
| Karoi       | ePn | 23       | eSg | 23       |
| Broken Hill | eSg | 16 00 45 |     |          |

XXIII. 4 janvier  
 Région de la Nouvelle Bretagne

H = 17<sup>h</sup>23<sup>mn</sup>20<sup>s</sup> M = 4.5 (Rabaul)

|              |    |            |    |            |
|--------------|----|------------|----|------------|
| Rabaul       | iP | 17 23 58.0 | iS | 17 24 27.2 |
| Keravat      | iP | 58.5       | iS | 30.5       |
| Rabalanakala | iP | 59.2       |    |            |
| Port Moresby | eP | 25 23.5    |    |            |

XXIV. 4 janvier  
 Région des îles Fidji

21° 6S, 178° 3W h = 497km H = 18<sup>h</sup>07<sup>mn</sup>12<sup>s</sup> (CGS)  
 M = 4.5 (Wichita M), 4.2 (CGS, Uinta Basin, Eureka), 3.6 (Tonto Forest)

|                 |      |            |  |       |       |
|-----------------|------|------------|--|-------|-------|
| Brisbane        | iP   | 18 12 13.6 |  | 29 30 | 28.9  |
| Charters Towers | iP   | 13 07.4    |  | 3680  | 33.1  |
| Port Moresby    | eP   | 26         |  | 3920  | 35.3  |
| Woody           | P    | 18 30      |  | 8900  | 80.1  |
| Eureka          | eP   | 51.0       |  | 9345  | 84.1  |
| Tonto Forest    | eP   | 54.0       |  | 9390  | 84.5  |
| Uinta Basin     | eP   | 19 13.3    |  | 9870  | 88.8  |
| College         | eP   | 15.0       |  | 9930  | 89.4  |
| Wichita M.      | eP   | 37.0       |  | 10455 | 94.1  |
| Pruhonice       | eIKP | 26 07.8    |  | 16855 | 149.9 |
| Kasperské Hory  | ePKP | 10         |  |       |       |

XXV. 4 janvier  
 Nouvelles Hébrides (île Espiritu Santo)

15° 3S, 167° 6E

H = 18<sup>h</sup>51<sup>mn</sup>34<sup>s</sup>  
 M = 4.2 (Nouméa)

|            |     |             |      |            |
|------------|-----|-------------|------|------------|
| Luganville | iP  | 18 51 44.4C | iS   | 18 51 54.5 |
| Lonorore   | iP  | 46.5        |      |            |
| Port Vila  | eIP | 52 06.0     | i(S) | 52 31      |
| Koumac     | eIP | 57.6        | iS   | 54 01      |
| Nouméa     | eIP | 53 09.0     | iS   | 22         |

XXVI. 4 janvier  
 Près de Choshi (Japon)

35° 56'N, 141° 08' E

h = 40km

H = 18<sup>h</sup>54<sup>mn</sup>20.8<sup>s</sup>  
 M = 3.7 (JMA)

|             |    |            |    |            |     |     |
|-------------|----|------------|----|------------|-----|-----|
| Choshi      | iP | 18 54 30.6 | iS | 18 54 34.8 | 35  | 0.3 |
| Kak ioka    | eP | 35         | eS | 47         | 91  | 0.8 |
| Mito        | iP | 36.6       | S  | 45.0       | 77  | 0.7 |
| Tokyo       | eP | 42         | eS | 55.5       | 127 | 1.1 |
| Yokohama    | eP | 46.7       |    |            | 145 | 1.3 |
| Matsushi ro | iP | 55 00      |    |            | 271 | 2.4 |

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XXVII. 4 janvier  
Nouvelles Hébrides (île Tanna)

18° 9S, 169° 3E h = 100km H = 19h05<sup>mn</sup>46s

M = 3.5 (Nouméa)

|           |     |            |    |            |  |  |
|-----------|-----|------------|----|------------|--|--|
| Port Vila | 1P  | 19 06 18.7 | 1S | 19 06 42.5 |  |  |
| Nouméa    | 1P  | 50.5       | 1S | 07 40.5    |  |  |
| Koumac    | eip | 58.9       | 1S | 54         |  |  |

XXVIII. 4 janvier  
Mer Méditerranée, au sud-ouest de l'île de Crète

34° 7N, 23° 5E

H = 19h40<sup>mn</sup>47s

M = 4.0 (Athènes)

|                |     |             |     |            |     |     |
|----------------|-----|-------------|-----|------------|-----|-----|
| Vamos          | 1Pg | 19 41 05.1D | 1Sg | 19 41 17.0 | 95  | 0.9 |
| Athènes        | ePn | 39.8        |     |            | 360 | 3.2 |
| Ciné           | 1Pn | 49          |     |            |     |     |
| Valsamata      | ePb | 58.2        |     |            | 460 | 4.1 |
| Jérusalem      | eP  | 43 01       | eS  | 44 40      |     |     |
| Kasperské Hory | eip | 44 41       |     |            |     |     |
| Erlangen       | eP  | 57.1        |     |            |     |     |
| Collm          | eP  | 45 03       |     |            |     |     |
| Tamanrasset    | e   | 27          |     |            |     |     |
| Nurmijaervi    | eP  | 46 15       |     |            |     |     |
| Uddeholm       | 1P  | 21.5        |     |            |     |     |
| Sodankylae     | eP  | 47 18       |     |            |     |     |
| Kiruna         | 1P  | 21.0        |     |            |     |     |

XXIX. 4 janvier  
Serbie du Sud (Yougoslavie)

43° 1/4N, 21° 1/2E

H = 20h10<sup>mn</sup>57s (BCIS)

Ressenti dans la région du Prokuplje (Yougoslavie) d'après  
Beograd et Skopje

M = 3.0 (Skopje)

|            |     |            |     |            |  |  |
|------------|-----|------------|-----|------------|--|--|
| Skopje     | 1Pn | 20 11 20.5 |     |            |  |  |
| Sofia      | ePg | 22.4       | 1Sg | 20 11 41.6 |  |  |
| Beograd    | 1Pg | 29.3       | 1Sg | 54.3       |  |  |
| Campulung  | P   | 12 08      |     |            |  |  |
| Bratislava | eip | 32         | eI  | 12 42.4    |  |  |
| Ljubljana  | ePn | 52         | eSn | 14 07      |  |  |

XXX. 4 janvier  
Mer Méditerranée, au sud des îles du Levant  
(peut être artificiel)

42° 9N, 6° 3E

H = 20h11<sup>mn</sup>51s (BCIS)

|                  |      |            |      |          |     |     |
|------------------|------|------------|------|----------|-----|-----|
| La Mourre        | 1Pg  | 20 12 00.5 |      |          | 55  | 0.5 |
| Lorgues          | 1Pg  | 02.5       |      |          | 60  | 0.6 |
| St Paul en Forêt | 1Pg  | 04.3       |      |          | 80  | 0.7 |
| Monteynard       | ePn  | 24.5       | eISg | 20 13 00 | 235 | 2.1 |
| Lanslevillard    | eipn | 29.9       | 1Sg  | 12.8     | 270 | 2.4 |
| Roselend         | eipn | 35.7       | eISg | 25.6     | 310 | 2.8 |
| Vouglans         | e    | 13 12      | eSg  | 48       | 39  | 3.5 |

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Au large de la cote de Guerrero (Mexique)

17°00'N, 101°33'W H = 20h47mn16s (Tacubaya)

|                   |    |           |    |          |     |     |
|-------------------|----|-----------|----|----------|-----|-----|
| Presa Infiernillo | 1P | 20 47 41C | 1S | 20 47 58 | 150 | 1.4 |
| Vista Hermosa     | 1P | 48 27.5   |    |          | 515 | 4.6 |
| Tacubaya          | 1  | 38.5      |    |          | 360 | 3.2 |
| Presa B. Juarez   | 1P | 47.8      | 1L | 50 12.8  | 656 | 5.9 |

XXXII. 4 janvier

Région des îles Fidji

21°2S, 179°1W h = 624km H = 22h10mn17.1s (CGS)

M = 5.3 (Port Moresby), 4.8 (CGS), 4.7 (College), 4.5 (Uinta Basin), 3.6 (Tonto Forest).

|                 |       |          |   |            |       |       |
|-----------------|-------|----------|---|------------|-------|-------|
| Afiamalau       | eP    | 22 12 35 | e | 22 13 25   | 1120  | 10.1  |
| Port Vila       | e1P   | 59.5     |   |            | 1370  | 12.3  |
| Lonorore        | 1P    | 13 08.4  |   |            | 1470  | 13.2  |
| Luganville      | e1P   | 16.0     |   |            | 1580  | 14.2  |
| Brisbane        | 1P    | 15 07.7  |   |            | 2920  | 28.3  |
| Papenoo         | 1P    | 23.5     |   |            | 3130  | 28.2  |
| Tiputa          | 1P    | 43.6     |   |            | 3380  | 30.5  |
| Charters Towers | 1P    | 59.5     |   |            | 3600  | 32.4  |
| Port Moresby    | 1P    | 16 16.7D |   |            | 3820  | 34.5  |
| Warramunga      | eP    | 17 17.5  | e | 22 23 11.5 | 4830  | 43.5  |
| Mundaring       | 1P    | 19 13.7C |   |            |       |       |
| South Pole      | eP    | 20 22.8  |   |            | 7670  | 69.0  |
| Matsushiro      | 1P    | 23.8     |   |            |       |       |
| Wood y          | P     | 21 27    |   |            | 8920  | 80.3  |
| Tucson          | eP    | 47.0     |   |            | 9355  | 84.2  |
| Tonto Forest    | eP    | 48.8     |   |            | 9420  | 84.8  |
| Palmer          | eP    | 52.3     |   |            | 9545  | 85.9  |
| Mt Sheep Creek  | 1P    | 55.9     |   |            | 9610  | 86.5  |
| Black Rapids    | 1P    | 22 04.2  |   |            | 9610  | 86.3  |
| College         | 1P    | 07.0     |   |            | 9600  | 89.1  |
| Gilmore Creek   | eP    | 07.6     |   |            | 9620  | 89.3  |
| Uinta Basin     | eP    | 08.6     |   |            | 9890  | 89.0  |
| Shillong        | 1(P)  | 23 09.4  |   |            | 10890 | 98.0  |
| Resolute        | PKP   | 45.3     |   |            | 12080 | 108.7 |
| Collm           | ePKP  | 55       |   |            | 16500 | 148.5 |
| Durham          | ePKP  | 28 55    |   |            |       |       |
| Pruhonicé       | e1PKP | 58       |   |            | 16590 | 149.3 |
| Kasperské Hory  | e1PKP | 29 00    |   |            | 16700 | 150.3 |

inscrit à La Paz, Penas.

XXXIII. 4 janvier

Îles Riou Kiou

29°N, 130°5E h = 33km H = 22h16mn25s (CGS)

M = 5.3 (New Delhi), 5.0 (North Pole), 4.9 (CGS), 4.7 (Uinta Basin)

|         |    |            |    |            |     |     |
|---------|----|------------|----|------------|-----|-----|
| Shiraki | P  | 22 17 42.4 |    |            | 570 | 5.1 |
| Wakaura | eP | 52.3       | eS | 22 18 56.9 | 670 | 6.0 |

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|             |    |            |    |            |        |      |
|-------------|----|------------|----|------------|--------|------|
| Oishiyama   | eP | 22 17 52.4 | eS | 22 18 57.4 | 670    | 6.0  |
| Matsushiro  | P  | 18 40      |    |            |        |      |
| Mt Tsukuba  | eP | 43.8       | e  | 20 22.0    | 1145   | 10.3 |
| Dodaira     | eP | 45.4       | e  | 23.8       | 1070   | 9.6  |
| New Delhi   | iP | 24 47.3    |    |            | 5130   | 46.2 |
| Quetta      | iP | 25 50. D   |    |            | 6045   | 54.4 |
| Palmer      | eP | 26 28.2    |    |            | 6645   | 59.8 |
| Mould Bay   | eP | 27 0 90 C  |    |            | 7330   | 66.0 |
| North Pole  | eP | 0 9.2      |    |            | 7330   | 66.0 |
| Frobisher   | eP | 29 01.1    |    |            | 9520   | 85.7 |
| Uinta Basin | eP | 27.3       |    |            | 100 90 | 90.8 |

XXXIV. 4 janvier  
Alaska central

65° 2N, 150° 6W

h = 111 km

H = 22<sup>h</sup>27<sup>m</sup>02.7<sup>s</sup> (CGS)

M = 3.8 (CGS, Uinta Basin)

|                |    |            |    |            |      |      |
|----------------|----|------------|----|------------|------|------|
| Palmer         | iP | 22 27 32.9 | iS | 22 27 55.7 | 190  | 1.7  |
| Mt Sheep Creek | P  | 36.4       |    |            | 220  | 2.0  |
| College        | eP | 37.5       | eS | 28 02.0    | 230  | 2.1  |
| Tanana         | iP | 38.6       |    |            | 245  | 2.2  |
| Black Rapids   | iP | 39.0       |    |            | 245  | 2.2  |
| Gilmore Creek  | iP | 39.6       |    |            | 255  | 2.3  |
| Pedro Dome     | iP | 40.1       |    |            | 255  | 2.3  |
| Sparrevohn     | iP | 51.5       |    |            | 345  | 3.1  |
| Big M.         | eP | 28 08.5    |    |            | 4 0  | 4.4  |
| Uinta Basin    | eP | 33 31.2    |    |            | 3700 | 33.5 |

I. 5 janvier  
Grèce

39° 9N, 20° 3E

H = 00<sup>h</sup>30<sup>m</sup>17<sup>s</sup> (Athènes)

M = 4.0 (Athènes)

|           |     |            |      |            |     |     |
|-----------|-----|------------|------|------------|-----|-----|
| Valsamata | ePn | 00 30 48.2 | eisn | 00 31 10.6 | 185 | 1.7 |
| Athènes   | ePn | 31 10.4    |      |            | 360 | 3.2 |
| Vamos     | ePn | 42.5       |      |            | 610 | 5.5 |

II. 5 janvier  
Région de la Nouvelle Bretagne

H = 00<sup>h</sup>51<sup>m</sup>09<sup>s</sup> (Rabaul)

M = 5.8 (Rabaul)

|          |      |          |    |            |  |  |
|----------|------|----------|----|------------|--|--|
| Esa' Ala | eIP  | 00 52 24 | iS | 00 53 10.5 |  |  |
| Keravat  | i(P) | 30.5     | iS | 41.5       |  |  |
| Rabaul   | eP   | 35.5 D   | eS | 42         |  |  |

III. 5 janvier  
Crête médiane de l'océan Atlantique Nord

26° 5N, 44° 5W.

h = 33 km

H = 04<sup>h</sup>26<sup>m</sup>06<sup>s</sup> (CGS)

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M = 6.1 (Bangui), 5.1 (La Paz), 5.0 (Penas), 4.7 (Wichita M),  
 4.6 (Tonto Forest), 4.5 (CGS, Digway), 4.3 (Cumberland Pl, Eureka),  
 4.2 (Uinta Basin), 4.1 (Blue M).

|               |    |           |                 |       |      |
|---------------|----|-----------|-----------------|-------|------|
| Cumberland Pl | EP | 04 3307.8 |                 | 40 10 | 36.1 |
| Frobisher     | EP | 43        |                 | 4 490 | 40.4 |
| Tamanrasset   | EP | 34 27     |                 |       |      |
| Wichita M.    | EP | 34.2      | ePCP 04 36 07.3 | 5200  | 46.8 |
| Penas         | P  | 47.8      |                 | 5400  | 48.5 |
| La Paz        | P  | 48        |                 | 5400  | 48.5 |
| Uddeholm      | EP | 35 11     |                 |       |      |
| Albuquerque   | EP | 24        |                 | 59 10 | 53.2 |
| Resolute      | EP | 33.2D     |                 | 60 65 | 54.6 |
| Uinta Basin   | EP | 34.9      | ePCP 37.1       | 6100  | 54.9 |
| Kiruna        | IP | 45.3      |                 |       |      |
| Edmonton      | EP | 48        |                 | 6300  | 56.7 |
| Digway        | EP | 53.1      |                 | 6380  | 57.4 |
| Tonto Forest  | EP | 53.2      | ePCP 47.0       | 6355  | 57.2 |
| Oulu          | EP | 57        |                 |       |      |
| Sodankylae    | EP | 36 02     |                 |       |      |
| Kajaani       | EP | 02        |                 |       |      |
| Kevo          | EP | 04        |                 |       |      |
| Nordman       | EP | 06        |                 | 6590  | 59.3 |
| Newport       | EP | 07        |                 | 6600  | 59.4 |
| Blue M.       | EP | 10.6      |                 | 6665  | 60.0 |
| Eureka        | IP | 10.8      |                 | 6655  | 59.9 |
| Mould Bay     | EP | 12        |                 | 6765  | 60.9 |
| Isabella      | P  | 30        | e 36 36         | 6965  | 62.7 |
| Jamestown     | EP | 36.5C     |                 |       |      |
| Mt Hamilton   | EP | 37.3C     |                 |       |      |
| Mineral       | EP | 37.7D     |                 |       |      |
| Oroville      | EP | 38.5      |                 | 7120  | 64.1 |
| Bangui        | EP | 38.5      |                 | 7110  | 64.0 |
| College       | IP | 37 28     |                 | 7 80  | 71.8 |

Inscrit à Toledo, Rabat, Nat. Univ. Mexico, Bogota.

IV. 5 Janvier  
 Italie centrale

42° 4N, 12° 8E H = 06h07<sup>mn</sup>38<sup>s</sup> (BCIS)  
 42° 4N, 12° 5E H = 0 6h07<sup>mn</sup>37<sup>s</sup> (ING)  
 42° 4N, 12° 8E h = 33km H = 06h07<sup>mn</sup>39<sup>s</sup> (CGS)

Resseinti dans la région de Rieti

M = 4.3 (Wichita M), 4.0 (CGS), 3.8 (Blue M), 3.7 (Roma)

|                |     |            |     |            |     |      |
|----------------|-----|------------|-----|------------|-----|------|
| Roma           | ePg | 06 07 48.5 | IS  | 06 07 56.5 | 55  | 0.5  |
| Trieste        | IPn | 08 31.3C   | ISn | 09 19.5    | 380 | 3.4  |
| Ljubljana      | epn | 37         | esn | 21         | 430 | 3.8  |
| Lanslevillard  | epn | 58         | ei  | 00.7       | 570 | 5.1  |
| Roselend       | epn | 0 902      | ei  | 10.2       | 615 | 5.5  |
| Monteynard     | epn | 07         |     |            | 640 | 5.8  |
| Kasperské Hory | epn | 18         |     |            | 755 | 6.8  |
| Pruhonice      | epn | 30         |     |            | 855 | 7.7  |
| Moxa           | epn | 39         |     |            | 920 | 8.3  |
| Wichita M.     | EP  | 1 950.9    |     |            | 890 | 80.9 |

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Blue M. EP 06 20 01-1 9155 82-4  
Inscrit à Padova.

V. 5 janvier  
Région frontalière Tibet-Inde

30°4'N, 79°1'E h = 7km H = 06h42mn44.7s (CGS)  
31°N, 79°6'E 06h42mn40s (Shillong)  
30°7'N, 79°2'E 06h42mn51s (URSS)

M = 6.1 (Shillong), 5.4 (CGS, Kajaani, Tamarrasset), 5.3 (Port Moresby), 5.2 (Nurmijaervi), 5.0 (Kevo), 4.8 (Palmer).

|                  |    |          |     |          |       |      |
|------------------|----|----------|-----|----------|-------|------|
| Dehra Dun        | IP | 06 43 03 | eS  | 06 43 26 | 100   | 0-9  |
| New Delhi        | IP |          | eS  | 44 03    | 265   | 2-4  |
| Lahore           | EP | 44 07    | eS  | 45 00    | 480   | 4-3  |
| Mangla           | EP | 10-5     |     |          | 590   | 5-3  |
| Warsak           | P  | 30       |     |          | 835   | 7-5  |
| Sehore           | EP | 36       | iS  | 46 02    | 820   | 7-4  |
| Quetta           | EP | 45 19-3  | e   | 47 47-5  | 1165  | 10-5 |
| Garm             | IP | 23-2     | iS  | 24-5     | 1245  | 11-2 |
| Andidjan         | EP | 33       | eS  | 43       | 1300  | 11-7 |
| Shillong         | IP | 35-5     |     |          | 1355  | 12-2 |
| Bombay           | EP | 49       | eS  | 48 10    | 1420  | 12-8 |
| Talgar           | EP | 53       |     |          | 1435  | 12-9 |
| Esen Boulak      | P  | 47 29    | e   | 52 08    | 2310  | 20-8 |
| Chiraz           | EP | 54       |     |          | 2520  | 22-7 |
| Téhéran          | EP | 48 02    |     |          | 2645  | 23-8 |
| Oulan Bator      | P  | 36       | (S) | 53 40    | 3060  | 27-5 |
| Kirovabad        | P  | 43       |     |          | 3155  | 28-4 |
| Sverdlovsk       | EP | 52       |     |          | 3265  | 29-4 |
| Bodajbo          | EP | 49 51    |     |          | 4060  | 36-5 |
| Moskva           | EP | 50 12    |     |          | 4290  | 38-6 |
| Vladivostok      | EP | 51       |     |          | 4830  | 43-5 |
| Yak outsk        | EP | 51 04    |     |          | 5040  | 45-4 |
| Kodaikanal       | eS | 12       | i   | 10       | 2235  | 20-1 |
| Kajaani          | IP | 14-3     | i   | 51 20-6  | 5165  | 46-5 |
| Oujgo rod        | EP | 15       |     |          | 5145  | 46-3 |
| Nurmijaervi      | IP | 16-1     | .   | 32-6     | 5190  | 46-7 |
| Sodankylae       | EP | 20       |     |          | 5345  | 48-1 |
| Niedzica         | EP | 26       | e   | 52 40    | 5295  | 47-6 |
| Kevo             | EP | 35       |     |          | 5445  | 49-0 |
| Uméa             | IP | 35-5     |     |          | 5500  | 49-5 |
| Bratislava       | IP | 40-7     |     |          | 5535  | 49-8 |
| Uppsala          | IP | 41-4     |     |          | 5555  | 50-0 |
| Kiruna           | IP | 47-5     |     |          | 5610  | 50-5 |
| Pruhonice        | P  | 53       |     |          | 5710  | 51-4 |
| Uddeholm         | IP | 57-4     |     |          | 5780  | 52-0 |
| Kasperské Hory   | P  | 58       |     |          | 5785  | 52-1 |
| Collm            | EP | 52 00    |     |          | 57 0  | 52-1 |
| Moxa             | EP | 06C      |     |          | 58 10 | 52-3 |
| Lillehammer      | EP | 06       |     |          | 5945  | 53-5 |
| Erlangen         | EP | 10-3D    |     |          |       |      |
| Furstenfeldbruck | IP | 11       | ei  | 18       | 585   | 53-7 |
| Stalstugan       | IP | 11-2     |     |          | 5885  | 53-0 |



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|                 |     |            |    |            |       |       |
|-----------------|-----|------------|----|------------|-------|-------|
| Lanslevillard   | eIP | 06 52 26.7 | ei | 06 52 40.6 | 6345  | 57.1  |
| Roseland        | eP  | 31         | ei | 43         | 6355  | 57.2  |
| Sommée Lormes   | eP  | 44         |    |            | 6535  | 58.8  |
| St Saulge       | eP  | 46.1       |    |            | 6565  | 59.1  |
| Toulx Ste Croix | eP  | 54.1       |    |            | 6675  | 60.1  |
| Sétif           | eP  | 56         | 1  | 53 05.5    | 6725  | 60.5  |
| Garron          | eP  | 53 01      |    |            | 6845  | 61.6  |
| St Sauveur      | eP  | 02         |    |            | 6790  | 61.1  |
| Folinère        | eP  | 03.2       |    |            | 6810  | 61.3  |
| Bangui          | iP  | 10.5D      |    |            | 6545  | 62.5  |
| Tamanrasset     | eP  | 29         |    |            | 7245  | 65.2  |
| Broken Hill     | eP  | 36         |    |            | 7335  | 66.0  |
| Toledo          | iP  | 37.5       |    |            | 7375  | 66.4  |
| Karoi           | eP  | 43         |    |            | 7435  | 66.9  |
| Ifrane          | P   | 57.5       |    |            | 7735  | 69.6  |
| Bilawayo        | eP  | 59         |    |            | 7765  | 69    |
| Mould Bay       | eP  | 54 15.2C   |    |            | 8110  | 73.0  |
| Warramunga      | eP  | 17         |    |            | 8110  | 73.0  |
| Port Moresby    | eP  | 37         |    |            | 8480  | 76.3  |
| College         | eP  | 46         |    |            | 8700  | 78.3  |
| Black Rapids    | eP  | 55         |    |            | 8880  | 79.9  |
| Palmer          | eP  | 57.8       |    |            | 8935  | 80.4  |
| Charters Towers | iP  | 55 06.8    |    |            | 9080  | 81.7  |
| Lamto           | P   | 08.3       |    |            | 9100  | 81.9  |
| South Pole      | PKP | 07 01 41.8 |    |            | 13355 | 120.2 |
| Wichita M.      | ePP | 02 23.9    |    |            | 12800 | 115.2 |
| Penas           | PKP | 30         |    |            | 16365 | 147.2 |
| La Paz          | PKP | 36.0       | e  | 07 03 17.7 | 16345 | 147.1 |
| Arequipa        | PKP | 40.1       |    |            | 16645 | 149.8 |

inscrit à Lvow, Tonto Forest, Calcutta, Vishakhapatnam, Trivandrum, Mashad.

VI. 5 janvier  
Nouvelles Hébrides

15°7'S, 167°4'E h = 86km H = 07h41<sup>mm</sup>04<sup>s</sup> (CGS)  
 15°8'S, 167°6'E H = 07h40<sup>mm</sup>59.3<sup>s</sup> (Nouméa)  
 M = 4.2 (Nouméa)

|            |    |            |    |            |     |     |
|------------|----|------------|----|------------|-----|-----|
| Luganville | iP | 07 41 17.2 | iS | 07 41 31.5 | 35  | 0.3 |
| Lonoore    | iP | 20.7       | iS | 34.5       | 80  | 0.7 |
| Port Vila  | iP | 39.3C      | iS | 42 08.5    | 245 | 2.2 |
| Koumac     | iP | 42 28.2C   | iS | 43 36      | 635 | 5.7 |
| Nouméa     | iP | 40.4C      | iS | 56.5       | 735 | 6.6 |

VII. 5 janvier  
Iles Tonga

16°6'S, 173°7'W h = 70km H = 08h00<sup>mm</sup>19.2<sup>s</sup> (CGS)  
 M = 4.9 (College), 4.7 (Bozeman SSS), 4.5 (CGS), 4.4 (Eureka, Dugway, Albuquerque), 4.3 (Blue M. Uinta Basin), 4.2 (Tonto Forest)

|           |    |             |   |          |      |      |
|-----------|----|-------------|---|----------|------|------|
| Afiamalau | iP | 08 01 00.8D | S | 08 01 31 | 355  | 3.2  |
| Brisbane  | iP | 06 48.7     |   |          | 3645 | 32.8 |

|                 |       |          |                |       |      |
|-----------------|-------|----------|----------------|-------|------|
| Charters Towers | eP    | 08 07 33 | 4235           | 38.1  |      |
| Toolangi        | eP    | 08 00    | 4610           | 41.5  |      |
| Warramunga      | eP    | 0 9 03   | 5480           | 4 9.3 |      |
| Priest          | P     | 11 40.7  | 8055           | 72.5  |      |
| Pasadena        | eP    | 43       | 8110           | 73.0  |      |
| South Pole      | eP    | 46.5     | 8165           | 73.5  |      |
| Jamestown       | P     | 47.8C    | 8200           | 73.8  |      |
| Mineral         | P     | 51.6D    | 8230           | 74.5  |      |
| Berkeley        | (P)   | 56.4     | 8065           | 72.6  |      |
| Tucson          | eP    | 12 08    | 8600           | 77.4  |      |
| Eureka          | iP    | 08.2     | 8610           | 77.5  |      |
| Tonto Forest    | eP    | 11.9     | 8665           | 78.0  |      |
| Glen Canyon     | eP    | 18.5     | 87 0           | 79.1  |      |
| Blue M.         | eP    | 20.6     | 8855           | 79.7  |      |
| Dugway          | eP    | 21.7     | 8880           | 79.9  |      |
| Albuquerque     | eP    | 32.8     | 9090           | 81.8  |      |
| Uinta Basin     | eP    | 33.8     | ePP 08 12 55.0 | 9120  | 82.1 |
| Butte           | eP    | 38.9     | 9245           | 83.2  |      |
| Bozeman SSS     | iP    | 41       | 9230           | 83.5  |      |
| College         | iP    | 41.1     | 9290           | 83.6  |      |
| Edmonton        | eP    | 56       | 9620           | 86.6  |      |
| La Paz          | eP    | 13 54    |                |       |      |
| Niedzica        | ePKP  | 19 51.5D |                |       |      |
| Moxa            | FKP   | 52       | 16190          | 145.7 |      |
| Pruhonice       | eIPKP | 54       |                |       |      |
| Durham          | iPKP  | 54       |                |       |      |
| Nairobi         | FKP   | 55       | 16120          | 145.1 |      |
| Les Bateaux     | eFKP  | 20 02.2  |                |       |      |
| St Saulge       | FKP   | 02.6     | 16610          | 149.5 |      |
| Sommée Lormes   | FKP   | 03       | 16590          | 149.3 |      |

inscrit à Penas.

VIII. 5 Janvier

Près de la côte Est de Hondo (Japon)

36° 3' N, 140° 3' E h = 7 km H = 08h22m40s (CGS)

36° 45' N, 140° 23' E h = 90 km H = 08h22m40.3s (JMA)

M = 4.5 (Eureka), 4.1 (CGS, Blue M, Uinta Basin), 3.9 (Tonto Forest), 3.8 (Dugway).

|            |    |            |    |            |      |      |
|------------|----|------------|----|------------|------|------|
| Mito       | iP | 08 22 55.1 | IS | 08 23 05.5 |      |      |
| Mt Tsukuba | iP | 56.2       |    |            | 80   | 0.7  |
| Kakioka    | iP | 57.5       |    |            |      |      |
| Fukushima  | iP | 23 01.5    | IS | 16.5       |      |      |
| Dodaira    | iP | 03.1       |    |            | 145  | 1.3  |
| Tokyo      | eP | 04         | es | 21         |      |      |
| Kiyosumi   | iP | 08.7       |    |            | 190  | 1.7  |
| Matsushiro | iP | 10.5       | S  | 33         |      |      |
| Ajiro      | P  | 12.9       | es | 36.9       |      |      |
| Mizusawa   | eP | 21.8       | IS | 50.4       |      |      |
| Oshiyama   | eP | 51.9       | es | 24 47.7    | 547  | 4.9  |
| Wakaura W. | eP | 56         | es | 47         | 555  | 5.0  |
| Shiraki    | P  | 24 16.9    |    |            | 745  | 6.7  |
| Blue M.    | eP | 34 00.5    |    |            | 8065 | 72.6 |

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|              |      |            |            |      |      |
|--------------|------|------------|------------|------|------|
| Eureka       | eP   | 08 34 24.1 |            | 8510 | 76.6 |
| Dugway       | eP   | 31.7       | e 08 35 04 | 8680 | 78.1 |
| Uinta Basin  | eP   | 41.7       | ePP 05.1   | 8880 | 79.9 |
| Tonto Forest | eP   | 57.4       |            | 9200 | 82.8 |
| Penas        | ePKP | 42 16.6    |            |      |      |
| La Paz       | ePKP | 20.5       |            |      |      |

IX. 5 Janvier  
Région frontalière Californie-Névéda

37°7'N, 118°6'W h = 33km H = 06h40mn32s (CGS)

|              |         |            |             |     |     |
|--------------|---------|------------|-------------|-----|-----|
| Jamestown    | eP      | 08 40 55.9 |             | 165 | 1.5 |
| Berkeley     | eP      | 41 00      |             | 320 | 2.9 |
| San Luis Dam | eP      | 06.5C      | 1L 08 41 35 | 245 | 2.2 |
| Priest       | eP      | 07.1       |             | 255 | 2.3 |
| Stone Canyon | Obs. iP | 09.8       |             | 265 | 2.4 |
| Mt Hamilton  | n eP    | 11         |             | 280 | 2.5 |
| Holy Cross   | iP      | 12.5       |             | 290 | 2.6 |
| Eureka       | eP      | 15.5       | 1LG 58      | 300 | 2.7 |
| Castle Rock  | eP      | 18         |             | 320 | 2.9 |
| Oroville     | eP      | 19         | e 42 01.3   | 335 | 3.0 |
| Mineral      | eP      | 31.3       |             | 400 | 3.6 |
| Dugway       | eP      | 42 06.2    | e 43 13.3   | 585 | 5.1 |
| Tonto Forest | eP      | 52         |             | 755 | 6.8 |

X. 5 Janvier  
Sud de l'Alaska

55°9'N, 154°6'W h = 33km H = 09h18mn09. s (CGS)  
55°0'N, 154°9'W H = 09h18mn10s (URSS)

M = 5.7 (College), 5.2 (Nurmijaervi, Mould Bay), 5.1 (Coppermine),  
5.0 (Mt Tsukuba), 4.8 (CGS), 4.6 (Tonto Forest, Uinta Basin), 4.4  
(Whitchita M, Cumberland Pl), 4.3 (Blue M).

|                 |    |           |              |      |      |
|-----------------|----|-----------|--------------|------|------|
| Kodiak          | iP | 09 18 45C |              | 245  | 2.2  |
| Big Mountain    | iP | 19 04.8   |              | 390  | 3.5  |
| Sparrevdm       | iP | 28.8      |              | 590  | 5.3  |
| Mts Sheep Creek | iP | 52        |              | 780  | 7.0  |
| Black Rapids    | eP | 20 17     |              | 800  | 8.8  |
| College         | iP | 26        |              | 1065 | 9.6  |
| Tanana          | eP | 29        |              | 1055 | 9.5  |
| Pedro Dome      | eP | 30        |              | 1090 | 9.8  |
| Barrow          | eP | 21 48.9   |              | 1720 | 15.5 |
| Coppermine      | eP | 22 58.6D  |              | 2410 | 21.7 |
| Edmonton        | eP | 23 22C    |              | 2645 | 23.8 |
| Nordman         | eP | 23        |              | 2655 | 23.9 |
| Newport         | eP | 24        |              | 2665 | 24.0 |
| Mould Bay       | eP | 26.1D     |              | 2690 | 24.2 |
| Hungry Horse    | eP | 40.1      | e 0. 27 16.5 | 2855 | 25.7 |
| Blue M.         | eP | 40.6      |              | 2860 | 25.9 |
| Mineral         | eP | 42.6C     |              |      |      |
| Oroville        | eP | 52.2      |              | 3035 | 27.3 |
| Butte           | eP | 59.9      |              | 3100 | 27.9 |
| Bozeman SSS     | eP | 24 05.5   |              | 3180 | 28.6 |
| Jamestown       | eP | 08.5      |              |      |      |
| Priest          | eP | 08.5      |              | 3365 | 30.3 |

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|                   |      |       |                   |      |          |             |
|-------------------|------|-------|-------------------|------|----------|-------------|
| Resolute          | iP   | 09 24 | 11 <sup>D</sup>   |      | 3255     | 29.3        |
| Berkeley          | eP   |       | 12.2              |      |          |             |
| Eureka            | eP   |       | 20.2              | i    | 09 27 28 | 3365 30.3   |
| Flaming Gorge     | eP   |       | 42.5              |      |          | 3655 32.9   |
| Pasadena          | eP   |       | 43                |      |          | 3680 33.1   |
| Uinta Basin       | eP   |       | 45.5              | ePP  | 25 46.2  | 3690 33.2   |
| Boulder City      | eP   |       | 47.8              | e    | 24 55.3  | 3710 33.4   |
| Tiksi             | e P  |       | 53                |      |          |             |
| Tonto Forest      | eP   | 25    | 15.6              | ePP  | 26 33.5  | 4065 36.6   |
| Yakoutsk          | iP   |       | 20 <sup>C</sup>   |      |          |             |
| Tucson            | eP   |       | 29.2              | e    | 25 38.5  | 4265 38.4   |
| Albuquerque       | eP   |       | 31                | e    | 41       | 4310 38.8   |
| Frobisher         | eP   |       | 49.2 <sup>C</sup> |      |          | 4535 40.8   |
| Wichita M.        | eP   | 26    | 08.9              | ePcP | 28 06.2  | 4810 43.3   |
| Bódajbo           | iP   |       | 33.5              |      |          |             |
| Vladivostok       | eP   |       | 40                |      |          |             |
| Mt. Tsukuba       | eP   |       | 42                |      |          | 5265 47.4   |
| Dodaira           | P    |       | 47.7              |      |          | 5345 48.1   |
| Matsushiro        | P    |       | 48                |      |          |             |
| Cumberland Pl.    | eP   | 27    | 02                |      |          | 5555 50.0   |
| Kevo              | eP   |       | 37                |      |          | 6065 54.6   |
| Kiruna            | iP   |       | 50.8              |      |          |             |
| Sodankylä         | eP   |       | 55                |      |          | 6335 57.0   |
| Nat. Univ. Mexico | (P)  | 28    | 10                |      |          |             |
| Oulu              | iP   |       | 11                |      |          |             |
| Kajaani           | eP   |       | 14                | i    | 34.3     | 6700 60.3   |
| Skals tungan      | iP   |       | 18.3              |      |          |             |
| Lillehammer       | iP   |       | 34.4              |      |          | 6980 62.8   |
| Uddeholm          | eP   |       | 42                |      |          |             |
| Nurmi jaerwi      | iP   |       | 42.1              |      |          | 7100 63.9   |
| Sverdlovsk        | eP   |       | 43                |      |          |             |
| Kongsberg         | iP   |       | 43.8              |      |          | 7120 64.1   |
| Uppsala           | iP   |       | 44.2              |      |          |             |
| Talgar            | eP   | 29    | 33                |      |          |             |
| Moxa              | eP   |       | 39                |      |          | 8135 73.2   |
| Téhéran           | eP   |       | 47                |      |          | 9565 86.1   |
| Quetta            | eP   |       | 55.3              |      |          | 9690 87.2   |
| Karoi             | PKP  | 37    | 42                | e    | 37 52    | 15655 140.9 |
| Bulawayo          | PKP  |       | 42                | i    | 52       | 16020 144.2 |
| South Pole        | PKP  |       | 43.4              |      |          | 16190 145.7 |
| Prétoria          | iPKP |       | 58 <sup>C</sup>   |      |          |             |

Inscrit à La Paz - Penas.

XI.- 5 Janvier

Iles Loyauté

20°5 S ; 170°7 E ; H = 11h. 22<sup>mm</sup> 14s. ; M. = 3.4 (Nouméa)

|           |     |       |                   |    |          |
|-----------|-----|-------|-------------------|----|----------|
| Port Vila | eIP | 11 23 | 13.8              | iS | 11 23 59 |
| Nouméa    | iP  |       | 20.4 <sup>C</sup> | iS | 24 12.5  |
| Koumac    | iP  |       | 43.1(C)           | iS | 50       |

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XII.- 5 Janvier

Yougoslavie

Vers  $43^{\circ}$  N ;  $21^{\circ} 1/4$  E ; H =  $13^h.33.6^{mn}$ (BCIS)

|           |      |            |       |            |
|-----------|------|------------|-------|------------|
| Sofia     | ePn  | 12 34 10.4 | e(S)  | 12 34 50.8 |
| Ljubljana | ePn  | 58         | e(Sn) | 36 13      |
| Trieste   | ePn  | 35 04      | iSn   | 16         |
| Brat斯拉va  | eIPg | 22.7       |       |            |
| Niedzica  | ePg  | 30.9       |       |            |
| Budapest  | eSg  | 36 16      |       |            |
| Zagreb    | eSg  | 17.9       | e     | 43.7       |

Inscrit à Krakow - Bucaresti - Kasperské Hory.

XIII.- 5 Janvier

Witwatersrand.

$26^{\circ} 5$  S ;  $27^{\circ} 2$  E ; H =  $15^h.10^{mn}00^s$ . ; M. = 3.0(Bulawayo)

|          |     |            |     |          |
|----------|-----|------------|-----|----------|
| Nairobi  | eP  | 15 11 10.5 |     |          |
| Bulawayo | ePn | 35         | eSg | 15 13 17 |
| Karoi    | ePn | 12 20      | eSn | 14 06    |

XIV.- 5 Janvier

Iles Loyauté

$21^{\circ} 0$  S ;  $171^{\circ} 8$  E ; H =  $15^h.11^{mn}56^s$ . (Nouméa)  
M. = 3.4(Nouméa)

|           |     |            |      |            |
|-----------|-----|------------|------|------------|
| Port Vila | eIP | 15 12 59.5 | iS   | 15 13 46.5 |
| Nouméa    | iP  | 13 04.1    | F iS | 53.5       |
| Koumac    | iP  | 26.2       | C iS | 14 36      |

XV.- 5 Janvier

Barrage de Kariba

$17^{\circ} 2$  S ;  $27^{\circ} 9$  E ; H =  $16^h.36^{mn}30^s$ . ; M. = 2.3(Bulawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Karoi       | iPn | 16 36 58 | iSg | 16 37 22 |
| Broken Hill | ePn | 37 13    | eSg | 55       |
| Bulawayo    | ePn | 15       | eSg | 56       |

XVI.- 5 Janvier

Barrage de Kariba

$17^{\circ} 2$  S ;  $28^{\circ} 0$  E ; H =  $16^h.37^{mn}27^s$ . ; M. = 3.2(Bulawayo)

|       |     |          |     |          |
|-------|-----|----------|-----|----------|
| Karoi | iPn | 15 37 56 | iSg | 16 38 20 |
|-------|-----|----------|-----|----------|

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|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Broken Hill | ePn | 16 38 10 | eSg | 16 38 52 |
| Bulawayo    | ePn | 12       | eSg | 53       |

XVII.- 5 Janvier

Au large de la Préfecture de Ibaraki (Japon)

$36^{\circ} 18' N$  ;  $140^{\circ} 49' E$  ;  $h = 60\text{km}$  ;  $H = 16^{\text{h}}.37^{\text{mn}}36.8\text{s.}$  (JMA)

M. = 3.9 (JMA)

|            |    |            |    |            |     |     |
|------------|----|------------|----|------------|-----|-----|
| Mito       | iP | 16 37 47.5 | iS | 16 37 54.5 | 32  | 0.3 |
| Choshi     | P  | 50.5       | iS | 38 00.9    | 64  | 0.6 |
| Kakioka    | P  | 51.2       | S  | 37 59.4    | 56  | 0.5 |
| Utsunomiya | P  | 52.8       | S  | 38 03.5    | 89  | 0.8 |
| Fukushima  | eP | 38 02.2    | eS | 20         | 164 | 1.5 |
| Matsushiro | iP | 11.5       | S  | 36         | 235 | 2.1 |

XVIII.- 5 Janvier

Barrage de Kariba

$17^{\circ} 2' S$  ;  $27^{\circ} 8' E$  ;  $H = 16^{\text{h}}.39^{\text{mn}}25\text{s.}$  ;

Ressenti III à Binga. Magn. = 3.5 (Bulawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Karoi       | iPn | 16 39 56 | iSg | 16 40 20 |
| Bulawayo    | ePn | 40 07    | eSg | 52       |
| Broken Hill | ePn | 10       | eSg | 55       |

Inscrit à Grahamstown - Bangui.

XIX.- 5 Janvier

Ouest de Witwatersrand.

$26^{\circ} 8' S$  ;  $26^{\circ} 7' E$  ;  $H = 18^{\text{h}}.54^{\text{mn}}44\text{s.}$  ; M. = 3.2 (Bulawayo)

|          |     |          |       |          |
|----------|-----|----------|-------|----------|
| Karoi    | ePn | 18 56 07 | e(Sn) | 18 58 56 |
| Bulawayo | ePn | 27       | eSg   | 11       |

Inscrit à Broken Hill.

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I.- 6 Janvier

Nouvelles Hébrides (Ile Espiritu Santo)

H = 00h.22<sup>mn</sup>30s. (Nouméa)

|            |     |            |    |          |  |
|------------|-----|------------|----|----------|--|
| Lonorore   | iP  | 00 22 44.5 | 1S | 00 22 54 |  |
| Port Vila  | eIP | 51.4       | 1S | 23 09.5  |  |
| Luganville | eIP | 55.2       | 1S | 14       |  |

II.- 6 Janvier

Au large de la cote Sud-Est de la Nouvelle Irlande

H = 01h.06<sup>mn</sup>37s; M. = 5.2(Rabaul)

|                 |    |             |    |            |     |       |
|-----------------|----|-------------|----|------------|-----|-------|
| Rabaul          | iP | 01 07 24.3D | 1S | 01 08 00.5 | 330 | (3.0) |
| Keravat         | iP | 25.5D       |    |            |     |       |
| Port Moresby    | iP | 08 44.1     | eS | 10 15      |     |       |
| Charters Towers | eP | 10 36       |    |            |     |       |
| Brisbane        | i  | 11 34.1     |    |            |     |       |
| Warramunga      | eP | 54          |    |            |     |       |

III.- 6 Janvier

Région de la Nouvelle Bretagne

H = 02h.22<sup>mn</sup>25s.; M. = 4.5(Rabaul)

|                |    |           |    |          |     |     |
|----------------|----|-----------|----|----------|-----|-----|
| Keravat        | iP | 02 22 56D |    |          |     |     |
| Wanliss Street | eP | 57D       |    |          |     |     |
| Rabaul         | iP | 57.0      | 1S | 02 23 21 | 220 | 2.0 |
| Rabalanakaia   | iP | 57.0D     |    |          |     |     |

IV.- 6 Janvier

Données discordantes

|                 |      |            |    |          |  |  |
|-----------------|------|------------|----|----------|--|--|
| Raoul Island    | iP   | 08 07 42.5 | 1S | 08 09 05 |  |  |
| Brisbane        | i(P) | 12 36.1    |    |          |  |  |
| Charters Towers | iP   | 13 45.8    |    |          |  |  |
| Warramunga      | eP   | 15 09.5    |    |          |  |  |
| South Pole      | eP   | 17 05.2    |    |          |  |  |
| Uméa            | eP   | 26 40      |    |          |  |  |
| Nurmijaerwi     | eP   | 44         |    |          |  |  |
| Uppsala         | iP   | 53.1       |    |          |  |  |
| Uddeholm        | eP   | 56         |    |          |  |  |

V.- 6 Janvier

Région de la Nouvelle Bretagne.

H = 08h.26<sup>mn</sup>30s.; M. = 4.0(Rabaul)

|                |    |            |  |  |  |  |
|----------------|----|------------|--|--|--|--|
| Wanliss Street | iP | 08 26 44.8 |  |  |  |  |
|----------------|----|------------|--|--|--|--|

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|               |    |       |                   |    |       |      |         |
|---------------|----|-------|-------------------|----|-------|------|---------|
| Rabalanakafa  | iP | 08 26 | 44.8 <sup>D</sup> |    |       |      |         |
| Sulphur Creek | iP |       | 45.0 <sup>D</sup> |    |       |      |         |
| Rabaul        | iP |       | 45.2              | iS | 08 26 | 56.5 | 445 4.0 |
| Keravat       | iP |       | 46                | iS |       | 57   |         |

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Données insuffisantes

|               |        |       |      |       |       |      |         |
|---------------|--------|-------|------|-------|-------|------|---------|
| Vouglans      | ei(Pg) | 10 08 | 14.3 | i(Sg) | 10 08 | 30.2 |         |
| Les Buteaux   | ePg    |       | 28.7 |       |       |      |         |
| Roselend      | ePg    |       | 29.5 | eiSg  |       | 45.5 | 130 1.2 |
| Sommée Lormes | ePg    |       | 32.3 |       |       |      |         |
| St. Saulge    | ePg    |       | 37.5 |       |       |      |         |

VII.- 6 Janvier

Région de Vrancea (Roumanie)

45°8 N ; 26°6 E ; h = 150<sup>km</sup> ; H = 10h.23<sup>mn</sup>50s. (BCIS)  
 45°8 N ; 26°6 E ; h = 163<sup>km</sup> ; H = 10h.23<sup>mn</sup>49.1s. (CGS)  
 46°0 N ; 26°6 E ; H = 10h.23<sup>mn</sup>52s. (URSS)

M. = 5.1(Bangul) ; 4.9(Nurmijaerwi - Blue M.) ; 4.8(North Pole) ;  
 4.6(CGS) ; 4.4(Tonto Forest) ; 4.3(Dugway) ; 4.1(Uinta Basin) ;  
 Wichita M.)

|                |      |       |                   |      |       |        |           |
|----------------|------|-------|-------------------|------|-------|--------|-----------|
| Vrincioaia     | P    | 10 24 | 13.6              | S    | 10 24 | 3(4).3 | 15 0.1    |
| Foczani        | P    |       | 15.1              | S    |       | 31.8   | 45 0.4    |
| Campulung      | P    |       | 19.4              | S    |       | 39.7   | 135 1.2   |
| Bucuresti      | P    |       | 21.9              | S    |       | 43.7   | 160 1.4   |
| Iasy           | P    |       | 24.7              | S    |       | 48.2   | 170 1.5   |
| Kichinev       | iP   |       | 28                | iS   |       | 55     | 220 2.0   |
| Sofia          | iP   |       | 50.3              |      |       |        | 435 3.9   |
| Timisoara      | eP   |       | 51                | e    | 25 36 |        | 420 3.8   |
| Oujgorod       | iP   |       | 53 <sup>D</sup>   | eS   |       | 41     | 455 4.1   |
| Lvov           | eP   |       | (57)              | eS   |       | (44)   | 485 4.4   |
| Istanbul Kand  | iPn  | 25    | 04.3              | iS   | 26    | 09.3   | 560 5.1   |
| Istanbul UTI   | iP   |       | 04.7              | iSn  |       | 02     | 560 5.1   |
| Simferopol     | iP   |       | 09 <sup>D</sup>   | iS   |       | 14     | 595 5.4   |
| Niedzica       | eiPn |       | 14 <sup>D</sup>   | eiPP | 25 22 |        | 620 5.6   |
| Paraskevi      | eiP  |       | 18.9 <sup>C</sup> |      |       |        | 730 6.6   |
| Krakow         | ePn  |       | 20                | eSn  | 26 30 |        | 685 6.2   |
| Bratislava     | eiP  |       | 30.3              | ei   |       | 06.3   | 770 6.9   |
| Athènes        | eP   |       | 44.0              |      |       |        | 900 8.1   |
| Ciné           | iPn  |       | 48                |      |       |        | 920 8.3   |
| Ljubljana      | iP   |       | 50.8              |      |       |        | 935 8.4   |
| Valsamata      | eP   |       | 55.8              |      |       |        | 980 8.8   |
| Trieste        | iPn  |       | 58.2              |      |       |        | 995 9.0   |
| Pruhonice      | eP   | 26    | 00                |      |       |        | 1010 9.1  |
| Kasperské Hory | eiP  |       | 03                |      |       |        | 1045 9.4  |
| L'Aquila       | eP   |       | 19                |      |       |        | 1120 10.1 |



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|                   |      |                   |     |          |      |       |
|-------------------|------|-------------------|-----|----------|------|-------|
| Fürstenfeldbruck  | eP   | 10 28 18          | eiS | 10 27 08 | 1195 | 10'7  |
| Vamos             | eP   | 24.5              |     |          | 1170 | 10'5  |
| Moskva            | P    | 37                | eS  | 28 45    | 1350 | 12' 1 |
| Potí              | eP   | 38                |     |          |      |       |
| Karlskrona        | eP   | 38                |     |          | 1385 | 12'5  |
| Bakouriani        | iP   | 51.3              | iS  | 29 12    | 1430 | 12'9  |
| Lanslevillard     | eP   | 58                | ei  | 30 09.4  | 1535 | 13'8  |
| Champ du Feu      | eiP  | 58.4              |     |          | 1490 | 13'4  |
| Roselend          | eiP  | 27 01.0           | ei  | 12       | 1550 | 14'0  |
| Haudompré         | eiP  | 02.9              |     |          | 1555 | 14'0  |
| St. Paul en Foret | eiP  | 07.0              |     |          | 1595 | 14'3  |
| Vouglans          | eP   | 07                | i   | 27 12.5  | 1615 | 14'5  |
| Nurmijaerwi       | iP   | 09.1              | eS  | 29 42    | 1645 | 14'8  |
| La Mourre         | eiP  | 09.3              |     |          | 1615 | 14'5  |
| Monteynard        | eP   | 10                |     |          | 1635 | 14'7  |
| Lorgues           | eiP  | 10.4              |     |          | 1620 | 14'6  |
| Uppsala           | iP   | 13.7              | iS  | 24 52.4  | 1680 | 15' 1 |
| Göteborg          | iP   | 15.8 <sup>C</sup> |     |          | 1660 | 14'9  |
| Les Buteaux       | eiP  | 22.7              |     |          | 1740 | 15'6  |
| Sommée Lormes     | eiP  | 22.9              |     |          | 1745 | 16'7  |
| St. Saulge        | eiP  | 25.8              |     |          | 1780 | 16'0  |
| Uddeholm          | iP   | 27.7 <sup>C</sup> |     |          | 1805 | 16'3  |
| Garchy            | iP   | 29.7 <sup>D</sup> | i   | 27 42.9  | 1805 | 16'2  |
| Tabriz            | iP   | 37.3              |     |          | 1840 | 16'6  |
| Toulx Ste Croix   | eiP  | 38.1              |     |          | 1880 | 16'9  |
| Kongsberg         | iP   | 39.3              |     |          | 1910 | 17'2  |
| Lillehammer       | iP   | 47.0              |     |          | 1990 | 17'9  |
| Archignac         | eiP  | 48.3              |     |          | 1975 | 17'8  |
| Lafrestale        | eiP  | 52.3              |     |          | 2020 | 18'2  |
| St. Sauveur       | eiP  | 52.4              |     |          | 2030 | 18'3  |
| Kajaani           | iP   | 53.1 <sup>D</sup> | eS  | 31 05    | 2035 | 18'3  |
| Uméa              | iP   | 53.2              |     | 25.4     | 2045 | 18'4  |
| Folinjäre         | eiP  | 54.7              |     |          | 2070 | 18'6  |
| Le Pertre         | eiP  | 59.4              |     |          | 2110 | 19'0  |
| Gorron            | eiP  | 28 00.6           |     |          | 2090 | 18'8  |
| Oulu              | iP   | 03.2              |     |          | 2150 | 19'3  |
| Skalstugan        | iP   | 05.2              |     |          | 2175 | 19'6  |
| Sodankylä         | iP   | 28.2 <sup>D</sup> | eS  | 32 25    | 2410 | 21'7  |
| Apatlty           | P    | 32.6              |     |          | 2455 | 22' 1 |
| Kiruna            | iP   | 35.1              |     |          | 2490 | 22'4  |
| Toledo            | iP   | 41.5              | iP  | 29 18    | 2570 | 23'2  |
| Kizyl Arvat       | eP   | 42                |     |          | 2530 | 22'8  |
| Almería           | iP   | 46                |     |          | 2610 | 23'5  |
| Sverdlvosk        | iP   | 49 <sup>D</sup>   |     |          | 2635 | 23'7  |
| Kevo              | iP   | 51.0 <sup>D</sup> |     |          | 2670 | 24'0  |
| Kirkenes          | iP   | 51.4              |     |          | 2680 | 24' 1 |
| Chiraz            | P    | 29 09.0           |     |          | 2690 | 26'0  |
| Ifrane            | eiPn | 17                |     |          | 3015 | 27' 1 |
| Averroes          | eP   | 33                | e   | 30 38    | 3205 | 28'8  |
| Tamanrasset       | eP   | 33 <sup>D</sup>   |     |          | 3180 | 28'6  |
| Garm              | eP   | 30 10             |     |          | 3630 | 32'7  |
| Frounze           | iP   | 22 <sup>C</sup>   |     |          | 3785 | 34' 1 |
| Qetta             | eP   | 29.4              |     |          | 3890 | 35'0  |

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|                 |      |       |       |     |            |       |       |
|-----------------|------|-------|-------|-----|------------|-------|-------|
| Semipalatinsk   | iP   | 10 30 | 32.8C |     |            | 3940  | 35.5  |
| Talgar          | iP   |       | 38    |     |            | 3975  | 35.8  |
| Bangui          | iP   | 31    | 22.7  | 1S  | 10 37 24.0 | 4645  | 41.8  |
| Alert           | eP   |       | 48.2D |     |            | 4975  | 44.8  |
| Esen Boulak     | eP   | 32    | 07    |     |            | 5205  | 46.8  |
| Lamto           | P    |       | 12.0  |     |            | 5330  | 48.0  |
| Tiksi           | iP   |       | 35D   |     |            | 5655  | 50.9  |
| Bodajbo         | iP   |       | 40.5D |     |            | 5745  | 51.7  |
| Oulan Bator     | iP   |       | 50    |     |            | 5840  | 52.6  |
| Resolute        | eP   |       | 56.0  |     |            | 5980  | 53.8  |
| Yakoutsk        | iP   | 33    | 14D   |     |            | 6255  | 56.3  |
| North Pole      | eP   |       | 14.4  |     |            | 6255  | 56.3  |
| Mould Bay       | eP   |       | 14.4  |     |            | 6255  | 56.3  |
| Karoi           | iP   |       | 56C   |     |            | 6935  | 62.4  |
| Bulawayo        | iP   | 34    | 17C   |     |            | 7295  | 65.7  |
| College         | iP   |       | 42.3  |     |            | 7730  | 69.6  |
| Edmonton        | eP   | 35    | 17.0  |     |            | 8400  | 75.6  |
| Fort St. James  | eP   |       | 27    |     |            | 8570  | 77.1  |
| Suffield        | eP   |       | 27    |     |            | 8600  | 77.4  |
| Hungry Horse    | eP   |       | 37.4  |     |            | 8910  | 80.2  |
| Nordman         | eP   |       | 46.0  |     |            | 8980  | 80.8  |
| Newport         | eP   |       | 48.0  |     |            | 9010  | 81.1  |
| Blue M.         | eP   | 36    | 03.2  | e   | 36 46.3    | 9370  | 84.3  |
| Uinta Basin     | eP   |       | 11.0  |     |            | 9520  | 85.7  |
| Wichita M.      | eP   |       | 11.3  | ePP | 54.7       | 9530  | 85.8  |
| Dugway          | eP   |       | 17.7  |     |            | 9670  | 87.0  |
| Tonto Forest    | eP   |       | 40.0  |     |            | 10190 | 91.7  |
| Charters Towers | iP   | 42    | 31.2  |     |            | 13855 | 124.7 |
| Byrd            | ePKP | 43    | 02.7  | ePP | 46 26.1    | 15955 | 143.6 |

inscrit à Bacau - Rybnick - Raciborz - Sétif.

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Données insuffisantes

|                 |    |       |       |
|-----------------|----|-------|-------|
| Warramunga      | eP | 12 21 | 53    |
| Charters Towers | iP |       | 22 45 |
| Brisbane        | iP | 24    | 02.5  |
| Adélaïde        | iP |       | 08.0D |

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Nouvelles Hébrides (Ile Vaté)  
H = 13<sup>h</sup>.08<sup>mm</sup>54<sup>s</sup>. (Nouméa)

|            |     |       |      |    |       |      |
|------------|-----|-------|------|----|-------|------|
| Lonorore   | iP  | 13 09 | 08.8 | 1S | 13 09 | 18.5 |
| Port Vila  | eIP |       | 15.8 | 1S |       | 33   |
| Luganville | eIP |       | 20.0 |    |       |      |

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Nord Ouest de la Russie (Probablement explosion)

H = 14<sup>h</sup>.09<sup>mm</sup>57s. (Uppsala)

|        |       |            |     |            |
|--------|-------|------------|-----|------------|
| Kiruna | iPn   | 14 10 56.5 | iSn | 14 11 42.3 |
| Umeå   | i(Sg) | 13 40.5    |     |            |

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Région frontière Pérou-Brésil.

8°6 S ; 74°3 W ; h = 155<sup>km</sup> ; H = 14<sup>h</sup>.32<sup>mm</sup>36s. (CGS)

M. = 4.6(Bozeman SSS) ; 4.3(Dugway - CGS) ; 4.2(Tonto Forest - Uinta Basin) ;  
4.1(Blue M. - Penas).

|              |    |                   |     |            |      |      |
|--------------|----|-------------------|-----|------------|------|------|
| Huancayo     | iP | 14 33 32.0        | iS  | 14 34 14.0 | 400  | 3.6  |
| Penas        | P  | 34 51.4           |     | 35 06.8    | 1055 | 9.5  |
| La Paz       | P  | 56.5 <sup>C</sup> | S   | 36 43      | 1110 | 10.0 |
| Albuquerque  | eP | 41 33.5           |     |            | 5880 | 52.9 |
| Tucson       | eP | 42.8              |     |            | 5945 | 53.5 |
| Tonto Forest | eP | 54.4              | ePP | 42 29.5    | 6130 | 55.2 |
| Uinta Basin  | eP | 42 18.0           | ePP | 49.7       | 6500 | 58.5 |
| Dugway       | eP | 28.7              |     |            | 6690 | 60.2 |
| Woody        | eP | 33.0              |     |            | 6755 | 60.8 |
| Eureka       | eP | 40.5              |     |            | 6820 | 61.4 |
| Bozeman SSS  | iP | 51.7              |     |            | 7055 | 63.5 |
| Blue M.      | eP | 43 05.6           | e   | 43 42.8    | 7310 | 65.8 |

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Suisse. Sud du Valais

46°1 N ; 7°5 E ; H = 14<sup>h</sup>.58<sup>mm</sup>16s. (BCIS)

|               |       |            |      |            |     |     |
|---------------|-------|------------|------|------------|-----|-----|
| Roselend      | ePg   | 14 58 28.7 | eiSg | 14 58 39.2 | 80  | 0.7 |
| Lanslevillard | iPg   | 32         | eiSg | 45.7       | 100 | 0.9 |
| Les Buteaux   | ePn   | 57.9       |      |            | 285 | 2.6 |
| Vouglans      | (e)Sg | 58.5       | ei   | 59 01.8    | 145 | 1.3 |
| Sommée Lormes | ePn   | 59 00.6    |      |            | 310 | 2.8 |
| St. Saulge    | ePn   | 02.5       |      |            | 330 | 3.0 |
| Monteynard    | Sg    | 12         |      |            | 185 | 1.7 |

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Mer Méditerranée , à l'Ouest de Crète

36°3 N ; 22°9 E ; H = 15<sup>h</sup>.09<sup>mm</sup>42s. ; M. = 3.7(Athènes)

|       |      |                         |     |            |     |     |
|-------|------|-------------------------|-----|------------|-----|-----|
| Vamos | eiPn | 15 10 08.7 <sup>D</sup> | iSn | 15 10 28.8 | 160 | 1.4 |
|-------|------|-------------------------|-----|------------|-----|-----|

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|             |     |             |      |            |      |      |
|-------------|-----|-------------|------|------------|------|------|
| Athènes     | EPn | 15 10 08.7D | eiSg | 15 10 42.5 | 200  | 1.8  |
| Valsamata   | ePn | 27.7        |      |            | 295  | 2.7  |
| Paraskevi   | ePn | 44.5        |      |            | 440  | 4.0  |
| Ciné        | iPn | 52          |      |            | 485  | 4.4  |
| Jérusalem   | eP  | 12 21       | e    | 13 21      | 1240 | 11.2 |
| Collm       | eP  | 13 35       |      |            | 1845 | 16.6 |
| Uppsala     | iP  | 14 40.5     |      |            | 2645 | 23.8 |
| Nurmijaervi | eP  | 55          |      |            | 2695 | 24.3 |
| Uddeholm    | iP  | 55.9        |      |            | 2730 | 24.6 |
| Chiraz      | eP  | 15(12)      |      |            | 2875 | 25.9 |
| Uméa        | iP  | 30.3        |      |            | 3065 | 27.6 |

inscrit à Trieste.

XIV. 6 janvier  
Golfe du Bengale

16°4N, 82°1E h = 33km

H = 15<sup>h</sup>13<sup>m</sup>28.7<sup>s</sup> (CGS)

16°8N, 82°1E

H = 15<sup>h</sup>13<sup>m</sup>32<sup>s</sup> (URSS)

M = 5.4 (Adelaide), 5.2 (Palmer), 5.1 (Quetta, CGS), 5.0 (URSS),  
4.9 (Bangui), 4.8 (North Pole)

|                 |    |          |      |            |      |      |
|-----------------|----|----------|------|------------|------|------|
| Chittagong      | P  | 15 14.54 |      |            | 660  | 6.9  |
| Poona           | iP | 17 31.0C | iS   | 15 20 33.0 | 1945 | 17.5 |
| Karachi         | eP | 18 36    |      |            | 2765 | 24.9 |
| Mangla          | eP | 37.7     |      |            | 2610 | 23.5 |
| Warsak          | iP | 59       |      |            | 2850 | 25.6 |
| Quetta          | iP | 19 0 31C | e    | 24 23.1    | 2380 | 23.8 |
| Garm            | eP | 31       |      |            | 3275 | 29.5 |
| Frounze         | eP | 39.5C    |      |            | 3365 | 30.3 |
| Tachkent        | eP | 52D      |      |            | 3520 | 31.7 |
| Semipalatinsk   | eP | 20 21.6  |      |            | 3915 | 35.2 |
| Chiraz          | P  | 51.0     |      |            | 4255 | 38.3 |
| Vladivostok     | eP | 21 30    |      |            | 4780 | 43.0 |
| Kermanshah      | eP | 34       |      |            |      |      |
| Bodajbo         | iP | 38       |      |            | 4950 | 44.5 |
| Matsushiro      | eP | 50       |      |            | 5040 | 45.4 |
| Kirovabad       | P  | 53       |      |            | 5140 | 46.2 |
| Sverdlovsk      | iP | 57       |      |            | 5200 | 46.8 |
| Bakuriani       | eP | 22 13.7C |      |            | 5400 | 46.6 |
| Meekatharra     | iP | 21.1D    |      |            |      |      |
| Yakoutsk        | iP | 41       |      |            | 5855 | 52.7 |
| Mundaring       | eP | 47.6D    |      |            | 5930 | 53.4 |
| Kalgoorlie      | iP | 56.9D    |      |            | 6080 | 54.7 |
| Warramunga      | eP | 58       |      |            | 6115 | 55.0 |
| Tiksi           | iP | 23 2 0   |      |            | 65 5 | 59.3 |
| Kajaani         | iP | 24 02.2  |      |            | 7140 | 64.3 |
| Charters Towers | eP | 04       |      |            | 7155 | 64.4 |
| Nurmijaervi     | iP | 06.9D    |      |            | 7210 | 64.8 |
| Oulu            | eP | 09       |      |            | 7255 | 65.3 |
| Sodankylae      | iP | 11.4     |      |            | 7290 | 65.6 |
| Niedzica        | eP | 14       | ePcP | 15 24 42   | 7320 | 65.9 |
| Kevo            | iP | 15.8     |      |            | 7355 | 66.2 |
| Uméa            | iP | 22.8     |      |            | 7490 | 67.4 |

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|                 |      |       |                   |                   |          |       |       |
|-----------------|------|-------|-------------------|-------------------|----------|-------|-------|
| Adélaïde        | 1P   | 15 24 | 24·0 <sup>D</sup> |                   |          | 7510  | 67·6  |
| Kiruna          | 1P   |       | 26·6              |                   |          | 7555  | 68·0  |
| Uppsala         | 1P   |       | 27·1              |                   |          | 7580  | 68·2  |
| Pruhonice       | e1P  |       | 38                |                   |          | 7745  | 69·7  |
| Karoi           | 1P   |       | 38 <sup>D</sup>   |                   |          | 7765  | 69·9  |
| Uddeholm        | 1P   |       | 39·8 <sup>C</sup> |                   |          | 7800  | 70·2  |
| Broken Hill     | 1P   |       | 40 <sup>D</sup>   |                   |          | 7770  | 69·9  |
| Skalstugan      | 1P   |       | 45·0              |                   |          | 7880  | 70·9  |
| Göteborg        | 1P   |       | 45·0              |                   |          | 7890  | 71·0  |
| Moxa            | eP   |       | 47·5              |                   |          | 7945  | 71·5  |
| Bulawayo        | 1P   |       | 52 <sup>D</sup>   |                   |          | 8015  | 72·1  |
| Changalane      | eP   |       | 52·0              |                   |          | 8000  | 72·0  |
| Bangui          | 1P   |       | 57·3              |                   |          | 8110  | 73·0  |
| Toolangi        | 1P   | 25    | 00·7              |                   |          | 8170  | 73·5  |
| Lanslevillard   | e1P  |       | 10·0              | e                 | 15 28 00 | 8355  | 75·2  |
| Roselend        | eP   |       | 11                | e                 | 07       | 8370  | 75·3  |
| Brisbane        | 1(P) |       | 17·5              |                   |          | 8130  | 73·2  |
| Les Bâteaux     | eP   |       | 19·6              |                   |          | 8550  | 76·9  |
| Sommée Lormes   | eP   |       | 20·7              |                   |          | 8555  | 77·0  |
| St. Saulge      | eP   |       | 22·2              |                   |          | 8580  | 77·2  |
| Toulx Ste Croix | eP   |       | 27·6              |                   |          | 8695  | 78·3  |
| Alert           | eP   |       | 39                |                   |          | 8950  | 80·6  |
| Tamanrasset     | eP   |       | 42                | e                 | 27 15    | 8970  | 80·7  |
| North Pole      | eP   | 26    | 04·8              |                   |          | 9510  | 85·6  |
| Mould Bay       | eP   |       | 05·0              |                   |          | 9510  | 85·6  |
| College         | eP   |       | 11·0              |                   |          | 9690  | 87·2  |
| Gilmore Creek   | eP   |       | 12·9              |                   |          | 9700  | 87·3  |
| Tanana          | 1P   |       | 15·0              |                   |          | 9510  | 85·6  |
| Sparrevohn      | 1P   |       | 17·7              |                   |          | 9570  | 86·1  |
| Palmer          | eP   |       | 18·9              |                   |          | 9845  | 88·6  |
| Resolute        | eP   |       | 22·0              |                   |          | 9890  | 89·0  |
| Coppermine      | eP   |       | 42·0              |                   |          | 10410 | 93·7  |
| Dugway          | PKP  | 32    | 16·5              |                   |          | 13230 | 119·1 |
| Uinta Basin     | PKP  |       | 17·7              | e(PP)             | 33 30·6  | 13345 | 120·1 |
| Albuquerque     | PKP  |       | 27·0              |                   |          | 14000 | 126·0 |
| Tonto Forest    | PKP  |       | 28·5              | ePP               | 34 14·6  | 13845 | 124·9 |
| Wichita M.      | PKP  |       | 30·0              | eSKP <sub>1</sub> | 35 56·9  | 14245 | 128·2 |
| Tucson          | PKP  |       | 32·4              | e                 | 32 41·5  | 14100 | 126·9 |
| Presa B. Juarez | 1PKP | 33    | 09·2              |                   |          | 16280 | 146·5 |
| La Paz          | PKP  |       | 29                |                   | 34 11·7  | 16610 | 149·5 |
| Penas           | PKP  |       | 29·8              | eSS               | 58 10    | 17930 | 161·3 |

inscrit à Trieste - Clermont - Apatity -

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Nouvelles Hébrides (Ile Tanna)

20°0 S ; 168°3 ; H = 15<sup>h</sup>.29<sup>m</sup>43<sup>s</sup>. ; M. = 3·4(Nouméa)

|           |    |       |                   |    |          |
|-----------|----|-------|-------------------|----|----------|
| Port Vila | 1P | 15 30 | 17·7              | 1S | 15 30 43 |
| Nouméa    | 1P |       | 28·5 <sup>C</sup> | 1  | 31 00    |

inscrit à Koumac

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Région Nord du Chili

27°2 S ; 69°4 W ; h = 60km ; H = 15h.50mn00.7s. (CGS)

M. = 5.8(Edmonton); 5.6(Bangui); 5.2(Cumberland Pl.); 5.0(Eureka - CGS);  
4.9(Penas); 4.8(Uinta Basin); 4.7(Wichita M. - Albuquerque - Dugway);  
4.6(Tonto Forest); 4.2(Blue M.).

|                |       |                   |      |            |       |       |
|----------------|-------|-------------------|------|------------|-------|-------|
| Peldehue       | eP    | 15 51 31.5        | eS   | 15 52 36   |       |       |
| Santiago       | eP    | 36                | eS   | 44         |       |       |
| La Paz         | eP    | 52 33.6           |      | 55 01.1    | 1190  | 10.7  |
| Penas          | eP    | 37.9              |      |            | 1210  | 10.9  |
| Arequipa       | e(P)  | 51.5              |      |            | 1210  | 10.9  |
| Huancayo       | eP    | 53 52.0           |      |            | 1790  | 16.1  |
| Byrd           | eP    | 59 41.8           | esp  | 16 00 05.1 | 6310  | 56.8  |
| South Pole     | iP    | 16 00 21.2        |      |            | 6 90  | 62.9  |
| Cumberland Pl. | eP    | 30.8              | e    | 56.1       | 7145  | 64.3  |
| Wichita M.     | eP    | 50.8              | epP  | 01 01.9    | 7500  | 67.5  |
| Lamto          | P     | 01 10.9           |      |            | 7830  | 70.5  |
| Albuquerque    | iP    | 15.1              |      |            | 7900  | 71.1  |
| Tucson         | eP    | 15.1              |      |            | 7900  | 71.1  |
| Tonto Forest   | iP    | 26.3              | ePcP | 54.4       | 8100  | 72.9  |
| Glen Canyon    | eP    | 39.5              |      |            | 8355  | 75.2  |
| Uinta Basin    | eP    | 48.6              |      |            | 8545  | 76.9  |
| China Lake     | P     | 51.0              |      |            | 8610  | 77.5  |
| Dugway         | eP    | 56.6              | eL   | 02 22.2    | 8700  | 78.3  |
| Eureka         | iP    | 02 02.3           |      |            | 8810  | 79.3  |
| Jamestown      | eP    | 08.6 <sup>D</sup> |      |            | 8955  | 80.6  |
| Bozeman SSS    | eP    | 16.0              |      |            | 9110  | 82.0  |
| Oroville       | iP    | 17.9              |      |            | 9145  | 82.3  |
| Blue M.        | eP    | 26.0              |      |            | 9330  | 84.0  |
| Butte          | eP    | 27.2 <sup>D</sup> |      |            | 9190  | 82.7  |
| Hungry Horse   | eP    | 31.7              |      |            | 9470  | 85.2  |
| Ifrane         | eP    | 35                | e    | 03 05      | 9530  | 85.8  |
| Newport        | eP    | 37.0              |      |            | 9610  | 86.3  |
| Nordman        | eP    | 38.0              |      |            | 9630  | 86.7  |
| Bulawayo       | iP    | 45.0              |      |            | 9745  | 87.7  |
| Edmonton       | iP    | 48.0              |      |            | 9855  | 88.7  |
| Tamanrasset    | eP    | 55                | e    | 13         |       |       |
| Bangui         | iP    | 56.7              |      |            | 10010 | 90.1  |
| Karoi          | iP    | 58 <sup>C</sup>   |      |            | 10010 | 90.1  |
| Broken Hill    | eP    | 03 01             |      |            | 10030 | 90.3  |
| Chiraz         | e1PKP | 09 04.0           |      |            | 14400 | 129.6 |

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Mer du Groenland.

79°9 N ; 4°1 W ; h = 33<sup>km</sup> ; H = 20<sup>h.10<sup>mm</sup>45.0<sup>s</sup>(CGS)</sup>

M. = 4.9(Newport); 4.8(Blue M.); 4.7(College); 4.6(Cumberland Pl);  
 4.5(Tonto Forest - CGS - Eureka); 4.4(Godhavn - Wichita M.);  
 4.1(Dugway - North Pole); 4.0(Uinta Basin).

|                |    |    |    |                   |                 |      |      |
|----------------|----|----|----|-------------------|-----------------|------|------|
| Station Nord   | iP | 20 | 11 | 23.4              |                 | 290  | 2.6  |
| Kings Bay      | iP |    |    | 25.2              |                 |      |      |
| Alert          | eP | 12 |    | 47.3 <sup>C</sup> |                 |      |      |
| Kevo           | eP |    |    | 13 50             |                 |      |      |
| Sodankylä      | eP | 14 |    | 13                |                 | 1655 | 14.9 |
| Kiruna         | eP |    |    | 14                |                 |      |      |
| Godhavn        | iP |    |    | 27.0              |                 | 1790 | 16.1 |
| Uméa           | iP |    |    | 49.0              |                 |      |      |
| Kajaani        | iP |    |    | 53.2              |                 |      |      |
| Resolute       | iP |    |    | 54.5 <sup>D</sup> |                 | 2055 | 18.5 |
| Oulu           | iP |    |    | 58.0              |                 |      |      |
| North Pole     | eP | 15 |    | 18.8              |                 | 2255 | 20.3 |
| Mould Bay      | eP |    |    | 19.0              |                 | 2255 | 20.3 |
| Uddeholm       | iP |    |    | 29.0 <sup>C</sup> |                 |      |      |
| Nurmijaerwi    | eP |    |    | 31                |                 | 2370 | 21.3 |
| Coppermine     | eP | 16 |    | 29.4              |                 | 3055 | 27.5 |
| Baker Lake     | eP |    |    | 35                |                 |      |      |
| Gilmore Creek  | eP | 17 |    | 24.3              |                 | 3755 | 33.9 |
| College        | iP |    |    | 25.6              |                 | 3770 | 33.9 |
| Edmonton       | eP | 18 |    | 30.0              |                 | 4590 | 41.3 |
| Suffield       | eP |    |    | 44 <sup>D</sup>   |                 |      |      |
| Hungry Horse   | eP | 19 |    | 08.1              |                 | 5120 | 46.1 |
| Nordman        | eP |    |    | 10.0              |                 | 5145 | 46.3 |
| Newport        | eP |    |    | 12.0              |                 | 5180 | 46.6 |
| Bitte          | eP |    |    | 24.6              |                 | 5345 | 48.1 |
| Blue M.        | eP |    |    | 37.7              |                 | 5555 | 50.0 |
| Uinta Basin    | eP | 20 |    | 02.7              |                 | 5910 | 53.2 |
| Cumberland Pl. | eP |    |    | 06.7              |                 | 5970 | 53.7 |
| Dugway         | eP |    |    | 06.8              |                 | 5990 | 53.9 |
| Eureka         | iP |    |    | 16.6              |                 | 6120 | 55.1 |
| Wichita M.     | eP |    |    | 28.7              | ePcP 20 21 21.2 | 6320 | 56.9 |
| Qetta          | eP |    |    | 29.2              |                 |      |      |
| Goldstone      | P  |    |    | 46.0              | SP 20 54.0      | 6590 | 59.3 |
| Tonto Forest   | eP |    |    | 47.3              |                 | 6600 | 59.4 |
| Tucson         | eP | 21 |    | 00.2              |                 | 6810 | 61.3 |

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Région de la Nouvelle Bretagne

H = 21<sup>h</sup>.17<sup>mn</sup>42<sup>s</sup>.; M. = 5.1(Rabaul)

|                 |    |            |    |            |  |     |     |
|-----------------|----|------------|----|------------|--|-----|-----|
| Rabalanakaia    | iP | 21 18 19.2 |    |            |  |     |     |
| Wanliss Street  | iP | 19.5       |    |            |  |     |     |
| Rabaul          | iP | 20.0       | e  | 21 18 48.5 |  | 255 | 2.3 |
| Keravat         | iP | 20.5       | 1S | 52.5       |  |     |     |
| Port Moresby    | eP | 19 43.5    | eS | 21(14)     |  |     |     |
| Charters Towers | e  | 21 38      |    |            |  |     |     |
| Warramunga      | eP | 22 52.5    |    |            |  |     |     |

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Région de la Nouvelle Bretagne

H = 21<sup>h</sup>.49<sup>mn</sup>17<sup>s</sup>.; M. = 3.8(Rabaul)

|                |    |                   |    |          |     |  |     |
|----------------|----|-------------------|----|----------|-----|--|-----|
| Sulphur        | iP | 21 49 33.0        |    |          |     |  |     |
| Wanliss Street | iP | 33.0 <sup>D</sup> |    |          |     |  |     |
| Keravat        | iP | 33 <sup>D</sup>   | 1S | 21 49 53 |     |  |     |
| Rabalanakaia   | iP | 33.2              |    |          |     |  |     |
| Rabaul         | iP | 33.3 <sup>D</sup> | eS | 54       | 145 |  | 1.3 |

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Nouvelles Hébrides (Ile Tanna)

19° 1 S ; 168° 5 E ; H = 22<sup>h</sup>.58<sup>mn</sup>20<sup>s</sup>.; M. = 3.4(Nouméa)

|                   |        |                         |    |            |       |  |       |
|-------------------|--------|-------------------------|----|------------|-------|--|-------|
| Port Vila         | iP     | 22 58 41.6 <sup>D</sup> | 1S | 22 59 00   | 150   |  | 1.4   |
| Luganville        | eP     | 59 16.3 <sup>C</sup>    |    |            | 420   |  | 3.8   |
| Nouméa            | iP     | 17.5                    | 1S | 58.5       | 415   |  | 3.7   |
| Port Moresby      | eP     | 23 03 07                |    |            | 2535  |  | 22.8  |
| Charters Towers   | i(P)   | 12                      |    |            | 2330  |  | 21.0  |
| Warramunga        | eP     | 04 50                   |    |            | 3575  |  | 32.2  |
| Oulu              | iPKP   | 17 12.8                 |    |            | 14200 |  | 127.8 |
| Kajaani           | iPKP   | 15.8                    |    |            | 14210 |  | 127.9 |
| Nurmijaerwi       | ePKP   | 21                      |    |            | 14595 |  | 131.3 |
| Roselend          | ePKP   | 56                      |    |            | 16615 |  | 149.5 |
| Lanslevillard     | ePKP   | 57.6                    | e  | 23 18 01.4 | 16635 |  | 149.7 |
| Monteynard        | ePKP   | 58                      |    |            | 16725 |  | 150.5 |
| St. Paul en Foret | ePKP   | 18 02.0                 |    |            | 16800 |  | 151.2 |
| La Mourre         | ePKP   | 02.8                    |    |            | 16830 |  | 151.5 |
| Lorgues           | ePKP   | 03.0                    |    |            | 16825 |  | 151.4 |
| Bangui            | e(PKP) | 04.8                    |    |            | 16355 |  | 147.5 |

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Près de la cote, région Nord du Chili.

27°8 S ; 71°1 W ; h = 33<sup>km</sup> ; H = 23<sup>h</sup>.27<sup>mn</sup>21.2S. (CGS)  
 28°7 S ; 71°4 W ; H = 23<sup>h</sup>.27<sup>mn</sup>22.S. (URSS)

M. = 7.2(Bangui) ; 6.75(Roma) ; 6.5(Strasbourg - Wellington - URSS) ;  
 6.4(Collm - Sanae) ; 6 1/4 - 6 1/2(Pasadena) ; 6.2(Caracas - San Juan -  
 Uppsala - Kiruna - Dugway) ; 6.0 - 6.4(Berkeley) ; 6.0(Uinta Basin) ;  
 5.9(Cumberland Pl.) ; 5.8(CGS - Blue M.) ; 5.7(North Pole - Tonto Forest) ;  
 5.4(Albuquerque - Penas - Wichita M.) ; 5.2(Longmire)

|                   |     |       |                   |       |         |      |      |
|-------------------|-----|-------|-------------------|-------|---------|------|------|
| Antofagasta       | 1P  | 23 28 | 22.1 <sup>C</sup> |       |         |      |      |
| Peldehue          | eP  |       | 36                | eS    | 23 29   | 37   |      |
| Santiago          | eP  |       | 40.5              |       |         |      |      |
| Concepcion        | eP  | 29    | 34                | e(S)  | 31 57   | 1020 | 9.2  |
| Arequipa          | 1P  |       | 59.7              |       |         | 1255 | 11.3 |
| La Paz            | eP  | 30    | 05.2              | 1S    | 32 27.0 | 1280 | 11.5 |
| Penas             | eP  |       | 08.1              | S     | 30      | 1300 | 11.7 |
| Valdivia          | eP  |       | 11.0              | e     | 33 00.0 | 1345 | 12.1 |
| La Plata          | 1P  |       | 29.0              | 1S    | 32 50.0 | 1480 | 13.3 |
| Huancayo          | eP  | 31    | 11.0              | 1S    | 34 21.0 | 1800 | 16.2 |
| Nana              | eP  |       | 11.6              | 1S    | 19.0    | 1845 | 16.6 |
| Quito             | 1P  | 33    | 17.5 <sup>C</sup> |       |         | 3145 | 28.3 |
| Bogota            | 1P  |       | 52.0              | 1S    | 39 09.0 | 3590 | 32.3 |
| Balboa Heights    | 1P  | 34    | 35.6              | 1S    | 40 26.4 | 4155 | 37.4 |
| Caracas           | 1P  |       | 39.9 <sup>C</sup> | 1S    | 28      | 4255 | 38.3 |
| La Palma          | 1P  | 35    | 39.0 <sup>C</sup> |       |         | 5045 | 45.4 |
| San Juan          | 1P  |       | 40.5              | 1PP   | 37 29.0 | 5100 | 45.9 |
| Presa B'Juarez    | 1P  | 36    | 14.5              |       |         |      |      |
| Merida            | eP  |       | 21                |       |         |      |      |
| Vera Cruz         | 1P  |       | 46                | e(S)  | 43 54   |      |      |
| Nat.Univ.Mexico   | 1P  |       | 47 <sup>C</sup>   | 1S    | 44 28   |      |      |
| Tacubaya          | eP  |       | 48                | eS    | 31      | 6020 | 54.2 |
| Eyrd              | 1P  |       | 55.7              | ePP   | 39 30.2 | 6220 | 56.0 |
| Sanae             | 1P  | 37    | 02.6              |       |         | 6330 | 57.0 |
| Bermuda C.        | 1P  |       | 25.0              | S     | 45 43.0 | 6680 | 60.1 |
| Novo-Lazarevskaya | 1P  |       | 35                | 1S    | 58      |      |      |
| South Pole        | eP  |       | 38.6              | eS    | 46 05.0 | 6930 | 62.4 |
| Cumberland Pl.    | eP  |       | 55.9              |       |         | 7170 | 64.5 |
| Oak Ridge         | eP  |       | 56.2              |       |         | 7180 | 64.6 |
| Blacksberg        | (P) | 38    | 12.6              | S     | 44.1    | 7245 | 65.2 |
| M' Bour           | eP  |       | 14                | 1S    | 47 10   |      |      |
| Wichita M.        | eP  |       | 14.2              | e(PP) | 40 32   | 7490 | 67.4 |
| Tulsa             | eP  |       | 16.0 <sup>C</sup> | S     | 12.0    | 7500 | 67.5 |
| Lubbock           | eP  |       | 16.5              |       |         | 7520 | 67.7 |
| Morgan town       | eP  |       | 18.5 <sup>D</sup> |       |         | 7510 | 67.6 |
| Scott Base        | P   |       | 26.6              | S     | 32.0    | 7700 | 69.3 |
| Lawrence          | eP  |       | 31.4              |       |         | 7790 | 70.1 |
| Aun Arbor         | eP  |       | 35.0              |       |         | 7855 | 70.7 |
| Manhattan         | eP  |       | 35.0              |       |         | 7870 | 70.8 |
| Tucson            | eP  |       | 36.0              | eS    | 47 52.0 | 7855 | 70.7 |

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|                  |      |                   |      |            |      |      |
|------------------|------|-------------------|------|------------|------|------|
| Albuquerque      | eP   | 23 38 37.0        | e    | 23 38 47.5 | 7870 | 70.8 |
| Lamto            | P    | 43.8              |      |            | 8010 | 72.1 |
| Dubuque          | P    | 44.3              |      |            | 8020 | 72.2 |
| Halifax          | eP   | 46.4              |      |            |      |      |
| Tonto Forest     | P    | 47.6              | eS   | 48 14.0    | 8055 | 73.5 |
| Ottawa           | eP   | 49.0              |      |            | 8100 | 72.9 |
| Syowa            | iP   | 51.5              |      |            | 7920 | 71.3 |
| Flagstaff        | iP   | 56.7              |      |            | 8170 | 73.5 |
| Sudbury          | eP   | 58.8 <sup>C</sup> |      |            |      |      |
| Papeete(Oston)   | i(P) | 58.3              |      |            | 8010 | 72.1 |
| Sewen Falls      | eP   | 58.5 <sup>C</sup> |      |            |      |      |
| Glen Canyon      | eP   | 39 01.2           |      |            | 8310 | 74.8 |
| Hermanus         | eP   | 05                | i    | 40         | 8345 | 75.1 |
| Pasadena         | eP   | 07                | iB   | 53         | 8445 | 76.0 |
| Uinta Basin      | eP   | 11.1              | e    | 49 22.4    | 8510 | 76.6 |
| Lomé             | eiP  | 12                | eiPP | 42 00      |      |      |
| Ponta Delgada    | P    | 12                |      | 49 29      | 8655 | 77.9 |
| Flaming Gorge    | eP   | 13.0 <sup>C</sup> | eS   | 04         | 8555 | 77.0 |
| Ténériffe        | P    | 14.0 <sup>D</sup> |      | 39 27      | 8520 | 76.7 |
| Salt Lake City   | eP   | 17.7              |      |            | 8670 | 78.0 |
| Dugway           | iP   | 18.6              | e    | 29.3       | 8670 | 78.0 |
| Sada Bandeira    | iP   | 20.5              | iS   | 49 15.0    | 8720 | 78.5 |
| Eureka           | iP   | 23.9 <sup>C</sup> | ePP  | 42 25.5    | 8770 | 78.9 |
| Priest           | P    | 24.0 <sup>C</sup> |      |            | 8770 | 78.9 |
| San Luis Dam     | iP   | 29.0 <sup>C</sup> |      |            | 8880 | 79.9 |
| Jamestown        | P    | 29.2 <sup>C</sup> |      |            | 9010 | 80.1 |
| Mt. Hamilton     | eP   | 31.5 <sup>C</sup> |      |            | 9030 | 80.3 |
| Berkeley         | P    | 35.3 <sup>C</sup> | S    | 49 44.0    | 9000 | 81.0 |
| Oroville         | iP   | 38.6              |      |            | 9090 | 81.8 |
| Mineral          | P    | 41.8 <sup>D</sup> |      |            | 9155 | 82.4 |
| Schefferville    | eP   | 42                |      |            |      |      |
| Butte            | eP   | 42.2              |      |            | 9170 | 82.5 |
| Moca             | P    | 44.7              | S    | 50 10.8    | 9170 | 82.5 |
| Ukiah            | eP   | 45.0              |      |            | 9155 | 82.4 |
| Blue M.          | eP   | 47.9              |      |            | 9300 | 83.7 |
| Mirny            | eP   | 50.0              | e(S) | 49 54.0    | 9470 | 85.2 |
| Hungry Horse     | eP   | 54.1              | e    | 42 48.4    | 9445 | 85.0 |
| Arcata           | P    | 55.4 <sup>C</sup> |      |            | 9345 | 84.1 |
| Suffield         | iP   | 56.3              |      |            | 9345 | 84.1 |
| Pietermaritzburg | iP   | 58                |      |            |      |      |
| Averroes         | P    | 58.5              |      |            | 9510 | 85.6 |
| Spokane          | iP   | 59.6              |      |            | 9545 | 85.9 |
| Corvallis        | eP   | 40 02             |      |            | 9600 | 86.4 |
| Longmire         | iP   | 05.0 <sup>C</sup> | eS   | 50.5--     | 9690 | 87.2 |
| Ifrane           | iP   | 07 <sup>C</sup>   | M    | 44 15      | 9700 | 87.3 |
| Tumwater         | iP   | 07.2              |      |            | 9770 | 87.9 |
| Penxticton       | eP   | 09                |      |            |      |      |
| Edmonton         | iP   | 11.0              |      |            | 9845 | 88.6 |
| Newport          | eP   | 11.0              | esP  | 40 38.0    | 9580 | 86.2 |

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|                   |       |       |                   |        |               |                      |       |       |
|-------------------|-------|-------|-------------------|--------|---------------|----------------------|-------|-------|
| Lisboa            | P     | 23 40 | 11.6              | PP     | 23 40         | 25.5                 |       |       |
| Bulawayo          | eP    |       | 12                | iS     |               | 51 01                | 9880  | 88.9  |
| Changalane        | eP    |       | 12.0              | i      |               | 40 16.4              | 9870  | 88.8  |
| Victoria          | eP    |       | 15                |        |               |                      |       |       |
| Tamanrasset       | eP    |       | 16.0              | e      |               | 43 48                | 9930  | 89.4  |
| Wellington        | eP    |       | 16                | e(S)   |               | 50 34                | 9800  | 88.2  |
| Monowai           | eP    |       | 16.0              |        |               |                      | 9945  | 89.5  |
| Karapiro          | P     |       | 17                |        |               |                      | 9970  | 89.7  |
| Porto             | iP    |       | 18.0              | i      |               | 50.0                 | 9970  | 89.7  |
| Malaga            | iP    |       | 19                |        |               |                      |       |       |
| Alberni           | eP    |       | 20                |        |               |                      |       |       |
| Karoi             | eP    |       | 24                | ePP    |               | 44 01                | 10155 | 91.4  |
| Broken Hill       | eP    |       | 27                | i(PP)  |               | 40 45                | 10180 | 91.6  |
| Bangui            | eP    |       | 27.2              | i      |               | 50 59.0              | 10190 | 91.7  |
| Toledo            | iP    |       | 28.4              | iS     |               | 51 18                |       |       |
| AfiamaLu          | eP    |       | 30                | e      |               | 51.0--               | 10310 | 92.8  |
| Baker Lake        | eP    |       | 35 <sup>D</sup>   |        |               |                      |       |       |
| Sétif             | e(P)  |       | 36                | i      |               | 40 33.5 <sup>C</sup> | 10870 | 96.0  |
| Yellonknif        | e     |       | 47                |        |               |                      |       |       |
| Tortosa           | eP    |       | 50                |        |               |                      |       |       |
| Clermont          | e(P)  |       | 56.5              | L      | 24 00 - 25 10 |                      |       |       |
| Bitare            | eIP   |       | 59.7              | eiPP   | 23 44 55.7    |                      |       |       |
| Coppermine        | eP    | 41    | 00.3              |        |               |                      | 11200 | 100.8 |
| Gorron            | eP    |       | 01.0              |        |               |                      | 10930 | 98.4  |
| Folinière         | eP    |       | 02.0              |        |               |                      | 10980 | 98.8  |
| St. Sauveur       | eP    |       | 02.9              |        |               |                      | 10990 | 98.9  |
| Roseland          | eP    |       | 06                | ei     |               | 41 15.6              |       |       |
| La Mourre         | eP    |       | 07.7              |        |               |                      |       |       |
| Lorgues           | eP    |       | 08.2              |        |               |                      |       |       |
| St. Paul en Foret | eP    |       | 09.1              |        |               |                      |       |       |
| Monteynard        | eP    |       | 10                |        |               |                      |       |       |
| Lanslevillard     | eP    |       | 12                | ei     |               | 23.5                 |       |       |
| Strasbourg        | eP    |       | 19                | eiPP   |               | 45 32                |       |       |
| l'Aquila          | e(P)  |       | 25                | ei!SKS |               | 52 00                |       |       |
| Trieste           | iP    |       | 33                | eiPP   |               | 45 50                | 11780 | 106.0 |
| Moxa              | eP    |       | 35                |        |               |                      | 11845 | 106.6 |
| Nairobi           | eP    |       | 38.0              | eS     |               | 53.0                 | 11890 | 105.2 |
| Canberra          | eP    |       | 40                | iPP    |               | 46 06                | 11855 | 106.7 |
| Collm             | eP    |       | (41)              | ePP    |               | 01                   | 11970 | 107.7 |
| Riverview         | eP    |       | 42.0              |        |               |                      | 11870 | 106.8 |
| North Pole        | eP    |       | 44.8              |        |               |                      | 12000 | 108.0 |
| Pruhonice         | eP    |       | 46                |        |               |                      | 12010 | 108.1 |
| Athènes           | ei(P) |       | 48.8 <sup>C</sup> |        |               |                      |       |       |
| Wien              | i(P)  |       | 49 <sup>D</sup>   |        |               |                      |       |       |
| College           | eP    |       | 49.0              | e      |               | 21.0                 | 12155 | 109.4 |
| Köbenhavn         | iP    |       | 54                |        |               |                      | 12100 | 109.0 |
| Addis Ababa       | eP    | 42    | 00                |        |               |                      |       |       |
| Istanbul UTI      | eP    |       | 12                | e(S)   |               | 54 18                |       |       |
| Uméa              | iP    |       | 15                | i      |               | 47                   |       |       |
| NurmiJaerwi       | eP    |       | 15                | e      |               | 54                   |       |       |

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|                  |                        |                   |        |          |       |       |
|------------------|------------------------|-------------------|--------|----------|-------|-------|
| Jérusalem        | eP                     | 23 42 24          | eSKS   | 23 52 58 |       |       |
| Kevo             | eP                     | 28                | e      | 55 08    |       |       |
| Charters Towers  | eP                     | 33                | e(PP)  | 47 43    |       |       |
| Fürstenfeldbruck | eI (PKP <sub>1</sub> ) | 45 47             | ePP    | 45 54    | 11710 | 105,4 |
| Bratislava       | eIPKP                  | 48,2              | eI     | 12,2     | 12110 | 109,0 |
| Ljubljana        | ePP                    | 52                |        |          |       |       |
| Krakow           | ePKP                   | 46 00             | LM     | 37 32    |       |       |
| Iasy             | PKP                    | 01                | e      | 46 09    |       |       |
| Oulu             | ePKP                   | 03                |        |          |       |       |
| Kajaani          | iPKP                   | 03,9              |        |          | 13155 | 118,4 |
| Sodankylä        | ePKP                   | 04                |        |          | 13145 | 118,3 |
| Nurmi jaerwi     | PKP                    | 06,0              |        |          | 12945 | 116,5 |
| Mundaring        | PKP                    | 10,0              |        |          | 13355 | 120,2 |
| Apati ty         | iPKP <sub>1</sub>      | 11,0              |        |          |       |       |
| Poulkovo         | iPKP <sub>1</sub>      | 12                |        |          |       |       |
| Moskva           | PKP <sub>1</sub>       | 15                |        |          |       |       |
| Srobarova        | eI (PP)                | 16                |        |          | 12180 | 109,6 |
| Simferopol       | ePKP <sub>1</sub>      | 19                |        |          |       |       |
| Kheis            | ePKP <sub>1</sub>      | 20                |        |          |       |       |
| Tabriz           | ePKP                   | 20                |        |          |       |       |
| Warramunga       | ePKP                   | 20,5              | e      | 58 17    | 14070 | 126,6 |
| Poti             | ePKP <sub>1</sub>      | 21                |        |          |       |       |
| Bakouriani       | iPKP <sub>1</sub>      | 21,2              |        |          |       |       |
| Tbilisi          | ePKP <sub>1</sub>      | 24                |        |          |       |       |
| Rabaul           | ePKP                   | 25                |        |          | 14180 | 137,6 |
| Port Moresby     | ePKP                   | 25,9              | e(SKP) | 49 43    | 14190 | 127,7 |
| Keravat          | ePKP                   | 26 <sup>D</sup>   |        |          | 14180 | 127,6 |
| Goris            | ePKP <sub>1</sub>      | 27                |        |          |       |       |
| Kermanshah       | ePKP                   | 29                |        |          |       |       |
| Sofia            | e(PP)                  | 29,9              | e      | 56 06    |       |       |
| Mashad           | e(PKP)                 | 32                | eI     | ,9 32,0  | 15300 | 137,7 |
| Ténéran          | ePKP                   | 33                |        |          | 14555 | 131,0 |
| Tiksi            | iPKP <sub>1</sub>      | 36                |        |          |       |       |
| Bakou            | ePKP <sub>1</sub>      | 39                |        |          |       |       |
| Kyzil Arvat      | ePKP <sub>1</sub>      | 39                |        |          |       |       |
| Uddeholm         | iPP                    | 39,8              |        |          |       |       |
| Sverdlovsk       | iPKP <sub>1</sub>      | 41                |        |          |       |       |
| Magadan          | ePKP <sub>1</sub>      | 44                |        |          |       |       |
| Giam             | PKP                    | 51,0              |        |          | 15955 | 143,6 |
| Quetta           | ePKP                   | 51,5 <sup>D</sup> |        |          | 15920 | 143,3 |
| Tachkent         | iPKP <sub>1</sub>      | 55 <sup>D</sup>   |        |          |       |       |
| Karachi          | ePKP                   | 55,5              |        |          | 15830 | 142,6 |
| Douchambé        | iPKP <sub>1</sub>      | 56 <sup>C</sup>   |        |          |       |       |
| Lembang          | PKP                    | 57,5              |        |          | 16180 | 145,6 |
| Kouliab          | iPKP <sub>1</sub>      | 58,6 <sup>C</sup> |        |          |       |       |
| Garm             | iPKP <sub>1</sub>      | 59,0              |        |          |       |       |
| Warsak           | PKP                    | 47 01             |        |          | 16370 | 147,3 |
| Semipalatinsk    | ePKP <sub>1</sub>      | 01,4              |        |          |       |       |
| Poona            | PKP                    | 01,5              |        |          | 16290 | 146,6 |
| Frounze          | ePKP <sub>1</sub>      | 03,5              |        |          |       |       |
| Lahore           | PKP                    | 05                |        |          | 16645 | 149,8 |

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|             |                  |                   |        |            |  |       |       |
|-------------|------------------|-------------------|--------|------------|--|-------|-------|
| Talgar      | 1PKP1            | 23 47 05          |        |            |  |       |       |
| Matsushiro  | PKP              | 06                | (SKKS) | 23 57 50   |  |       |       |
| Mangla      | ePKP             | 08.0              |        |            |  | 16590 | 149.3 |
| Mt. Tsukuba | 1PKP             | 08.1 <sup>C</sup> | ISS    | 24 10 21.6 |  | 16920 | 153.2 |
| Dodaira     | PKP              | 10.6              |        |            |  | 17010 | 153.1 |
| Irkoutsk    | PKP <sub>1</sub> | 12                |        |            |  |       |       |
| Shillong    | PKP              | 22.8              |        |            |  | 18290 | 164.6 |
| Chittagong  | PKP              | 23                |        |            |  | 18180 | 163.6 |
| Baguio      | PKP              | 23.2              |        |            |  | 18270 | 164.4 |
| Aipu        | PKP              | 27.0              | S      | 56 58.0    |  | 18710 | 168.4 |
| Hong Kong   | PKP              | 50.0              | ePP    | 52 46.0    |  | 19200 | 172.8 |

Inscrit à Uccle - De Bilt - Pavia - Alicante - Warzawa - Brisbane -  
Roma - Mazatlan - Guadalajara - Almería - Uppsala - Cine -  
Ksara - Kiruna - Honiara.

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Mexique.

H = 23h.28<sup>mm</sup>26<sup>s</sup>. (Tacubaya)

|                 |    |          |      |          |  |     |     |
|-----------------|----|----------|------|----------|--|-----|-----|
| Nat.Univ.Mexico | 1P | 23 29 14 | 1S   | 23 29 50 |  | 320 | 2.9 |
| Tacubaya        | 1P | 16       | 1(S) | 49       |  | 325 | 2.9 |
| Presa B.Juarez  | 1P | 30 00.8  | 1L   | 31 29.1  |  | 680 | 6.1 |
| Léon            | 1  | 16       |      |          |  |     |     |

I.- 7 Janvier

Probablement Italie centrale.

Données insuffisantes.

|           |      |          |     |          |  |  |  |
|-----------|------|----------|-----|----------|--|--|--|
| l'Aquila  | e1Pg | 00 15 45 |     |          |  |  |  |
| Roma      | e    | 52       | 1Sg | 00 16 01 |  |  |  |
| Trieste   | e    | 18 30    | 1   | 17 09    |  |  |  |
| Ljubljana | ePn  | (40)     | 1   | 16 13    |  |  |  |

Inscrit à Praha.

II.- 7 Janvier

Près de la cote, au Nord du Chili.

27°8 S ; 70°9 W ; h = 33km ; H = 00h.23<sup>mm</sup>.16.3<sup>s</sup>. (CGS)

M. = 6.0 (Bangui) ; 5.3 (Cumberland Pl.) ; 4.9 (CGS) ; 4.8 (Wichita M. - Digway -  
Eureka) ; 4.7 (Blue M.) ; 4.6 (Penas) ; 4.5 (Uinta Basin) ; 4.4 (Tonto Forest)

|             |    |                         |     |          |  |      |      |
|-------------|----|-------------------------|-----|----------|--|------|------|
| Antofagasta | eP | 00 24 18.1 <sup>C</sup> |     |          |  |      |      |
| Peldehue    | eP | 31.5                    | eS  | 00 25 34 |  |      |      |
| Santiago    | eP | 38.1                    |     |          |  |      |      |
| Arequipa    | 1P | 25 57                   |     |          |  | 1255 | 11.3 |
| La Paz      | P  | 26 02.3                 | (S) | 28 22.5  |  | 1280 | 11.5 |
| Penas       | P  | 03.9                    | S   | 28 00    |  | 1300 | 11.7 |

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|                |      |            |        |            |       |       |
|----------------|------|------------|--------|------------|-------|-------|
| Huancayo       | eP   | 00 27 09.2 |        |            | 1810  | 16.3  |
| Byrd           | iP   | 32 51.4    |        |            | 6220  | 56.0  |
| Cumberland Pl. | eP   | 33 51.9    |        |            | 7180  | 64.6  |
| Wichita M.     | eP   | 34 10      | ePcP   | 00 34 45.2 | 7500  | 67.5  |
| Tulsa          | iP   | 12C        |        |            | 7510  | 67.6  |
| Lubbock        | eP   | 12.5       |        |            | 7535  | 67.8  |
| Albuquerque    | eP   | 32.6       | e      | 41.5       | 7880  | 70.9  |
| Lamto          | P    | 39.4       |        |            | 7990  | 71.9  |
| Tonto Forest   | eP   | 43.5       | e(PcP) | 51.2       | 8080  | 72.7  |
| Sudbury        | eP   | 53         |        |            |       |       |
| Goldstone      | P    | 35 05      | sP     | 35 13      | 8480  | 76.3  |
| Uinta Basin    | eP   | 07.1       | ePcP   | 14.7       | 8535  | 76.8  |
| Dugway         | eP   | 14.2       | e      | 20.7       | 8680  | 78.1  |
| Sada Bandeira  | iP   | 18.7       |        |            | 8710  | 78.4  |
| Eureka         | iP   | 19.9       |        |            | 8790  | 79.1  |
| Priest         | eP   | 20         |        |            | 8780  | 79.0  |
| Jamestown      | eP   | 25.5C      |        |            | 8910  | 80.2  |
| San Luis Dam   | eP   | 33         |        |            | 8890  | 80.0  |
| Oroville       | iP   | 43.5       |        |            | 9110  | 82.0  |
| Butte          | eP   | 39         | e      | 54.4       | 9190  | 82.7  |
| Blue M.        | eP   | 43.7       |        |            | 9310  | 83.8  |
| Suffield       | eP   | 53         |        |            |       |       |
| Averroes       | P    | 54.5       |        |            | 9500  | 85.5  |
| Newport        | eP   | 55         |        |            | 9590  | 86.3  |
| Nordman        | eP   | 56         |        |            | 9620  | 86.6  |
| Ifrane         | P    | 36 02.5    |        |            | 9690  | 87.2  |
| Flin Flon      | eP   | 06C        |        |            |       |       |
| Edmonton       | eP   | 07         |        |            | 9865  | 88.8  |
| Bulawayo       | iP   | 08C        |        |            |       |       |
| Changalane     | iP   | 08D        |        |            | 9845  | 88.6  |
| Tamanrasset    | eP   | 11         |        |            |       |       |
| Bangui         | iP   | 20         |        |            | 10165 | 91.5  |
| Karoi          | iP   | 21C        |        |            |       |       |
| Broken Hill    | eP   | 22         |        |            |       |       |
| Warramunga     | ePKP | 42 16.5    |        |            |       |       |
| Chiraz         | PKP  | 28         |        |            | 14565 | 131.1 |
| Qietta         | iPKP | 45.8D      |        |            |       |       |
| Lembang        | PKP  | 53         |        |            | 16165 | 145.5 |
| Warsak         | ePKP | 57.5       |        |            |       |       |
| Matsushiro     | PKP  | 43 15      |        |            |       |       |

Inscrit à Valdivia

III.- 7 Janvier

Iles Loyauté

20° 1 S ; 170° 5 E ; H = 01h.17mm59s. (Nouméa)

M. = 3.5 (Nouméa)

Port Vila iP 01 18 48.6C 1S 01 19 25

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|            |     |                         |    |            |
|------------|-----|-------------------------|----|------------|
| Nouméa     | 1P  | 01 19 05.2 <sup>C</sup> |    |            |
| Lonorore   | e1P | 09.6                    | 1S | 01 20 06.5 |
| Luganville | 1P  | 15.6(C <sub>1</sub> )   | 1S | 17.5       |

IV.- 7 Janvier

Kazakstan oriental (URSS)

Artificiel.

50°0 N ; 78°0 E ; H = 03<sup>h</sup>.47<sup>mn</sup>00<sup>s</sup>.(BCIS)

49°8 N ; 78°0 E ; H = 03<sup>h</sup>.46<sup>mn</sup>57.7<sup>s</sup>.(CGS)

M. = 5.6(Bangui); 5.5(Mould Bay - Uinta Basin); 5.4(Mt. Tsukuba);  
 5.3(CGS - Bozeman SSS - Dugway); 5.2(College - Eureka - Wichita M.);  
 5.1(Uppsala - Palmer - Kevo); 4.9(MPV Moxa - Kajaani);  
 4.8(NurmiJaerwi); 4.6(Tonto Forest); 4.4(Blue M.)

|                   |     |                         |     |            |      |      |
|-------------------|-----|-------------------------|-----|------------|------|------|
| Quetta            | 1P  | 03 51 47.4 <sup>C</sup> |     |            | 2385 | 21.5 |
| Tabriz            | eP  | 52 31                   |     |            | 2835 | 25.5 |
| Kajaani           | 1P  | 53 08.5                 | 1   | 03 53 44.5 | 3315 | 29.8 |
| Sodankylä         | eP  | 16                      |     |            | 3405 | 30.8 |
| Oulu              | 1P  | 16.2                    |     |            | 3410 | 30.7 |
| Kevo              | 1P  | 19                      | 1   | 55         | 3440 | 31.0 |
| NurmiJaerwi       | 1P  | 21.8                    | 1   | 57         | 3480 | 31.3 |
| Poona             | 1P  | 22 <sup>C</sup>         |     |            | 3540 | 31.6 |
| Uméa              | 1P  | 37.4 <sup>C</sup>       |     |            | 3680 | 33.1 |
| Kiruna            | 1P  | 37.6                    |     |            | 3675 | 33.1 |
| Uppsala           | 1P  | 52.4                    |     |            | 3875 | 34.9 |
| Niedzica          | eP  | 54 08                   | ePP | 55 20      | 4055 | 36.5 |
| Skalstugan        | 1P  | 08.4 <sup>C</sup>       |     |            | 4075 | 36.7 |
| Karlskrona        | 1P  | 08.9 <sup>C</sup>       |     |            | 4090 | 36.8 |
| Uddeholm          | 1P  | 09.1 <sup>C</sup>       |     |            |      |      |
| Lillehammer       | 1P  | 18.4                    |     |            | 4205 | 37.9 |
| Göteborg          | 1P  | 23                      |     |            | 4250 | 38.3 |
| Pruhonice         | eP  | 35                      |     |            | 4410 | 34.7 |
| Collm             | 1P  | 37.2                    |     |            | 4445 | 40.0 |
| Moxa              | eP  | 48 <sup>C</sup>         |     |            | 4565 | 41.1 |
| Erlangen          | eP  | 52.9 <sup>C</sup>       |     |            | 4640 | 41.7 |
| Dodaira           | eP  | 55 21.8                 |     |            | 5070 | 45.6 |
| Mt. Tsukuba       | 1P  | 23.5                    |     |            | 5120 | 46.1 |
| Lanslevillard     | e1P | 29.3                    |     |            |      |      |
| Kiyosumi          | eP  | 30.2                    |     |            | 5200 | 46.8 |
| Sommée Lormes     | eP  | 34                      |     |            | 5245 | 47.2 |
| Monteynard        | eP  | 35.5                    |     |            |      |      |
| St. Saulge        | eP  | 36.6                    |     |            | 5275 | 47.5 |
| St. Paul en Foret | 1P  | 38.4                    |     |            | 5285 | 47.5 |
| Lorgues           | 1P  | 38.4                    |     |            | 5315 | 47.8 |
| La Mourre         | 1P  | 40.2                    |     |            | 5310 | 47.8 |
| St. Sauveur       | eP  | 46.6                    |     |            | 5400 | 48.6 |
| Folinière         | eP  | 47.5                    |     |            | 5370 | 48.3 |
| Gorron            | eP  | 50.5                    |     |            | 5370 | 48.3 |
| Archignac         | 1P  | 56                      |     |            |      |      |
| Le Pouchou        | 1P  | 57.6                    |     |            |      |      |
| Mould Bay         | 1P  | 56 22.8 <sup>C</sup>    |     |            | 5950 | 53.5 |

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|                        |     |                    |             |       |       |
|------------------------|-----|--------------------|-------------|-------|-------|
| Resolute               | eP  | 03 56 37           |             | 6170  | 55.5  |
| Pedro Dome             | iP  | 57 08.9            |             | 6670  | 60.0  |
| Gilmore Creek          | eP  | 09.2               |             |       |       |
| College                | iP  | 09.3               |             | 6675  | 60.1  |
| Ifrane                 | P   | 15                 |             | 6780  | 61.0  |
| Sparrevohn             | iP  | 18.1               |             |       |       |
| Black Rapids           | iP  | 19.1               |             | 6855  | 61.7  |
| Tamanrasset            | iP  | 20 <sup>D</sup>    |             | 6860  | 61.7  |
| Coppermine             | eP  | 21.6 <sup>C</sup>  |             | 6900  | 62.1  |
| Palmer                 | eP  | 24.8               |             | 6950  | 62.6  |
| Mts Sheep Creek        | iP  | 27                 |             |       |       |
| Big Mountain           | eP  | 27.5               |             | 6965  | 62.7  |
| Bangui                 | iP  | 54.9 <sup>D</sup>  |             | 7485  | 67.4  |
| Yellow Knife           | eP  | 56 <sup>C</sup>    |             | 7490  | 67.4  |
| Edmonton               | eP  | 58 53 <sup>C</sup> |             | 8525  | 76.7  |
| Broken Hill            | iP  | 56 <sup>D</sup>    |             | 8610  | 77.5  |
| Karoi                  | iP  | 59 04 <sup>D</sup> |             |       |       |
| Suffield               | iP  | 10 <sup>C</sup>    |             | 8855  | 79.7  |
| Lamto                  | P   | 15.2               |             | 8975  | 80.8  |
| Nordman                | eP  | 16                 |             |       |       |
| Newport                | eP  | 18                 |             | 9030  | 81.3  |
| Hungry Horse           | eP  | 19.5               |             | 9055  | 81.5  |
| Bulawayo               | iP  | 21 <sup>D</sup>    |             | 9150  | 82.3  |
| Butte                  | eP  | 33                 |             | 9325  | 83.9  |
| Bozeman SSS            | iP  | 34.5 <sup>C</sup>  |             | 9380  | 84.4  |
| Blue M.                | eP  | 34.6               |             | 9400  | 84.6  |
| Warramunga             | eP  | 37.5               |             | 9505  | 85.6  |
| Mineral                | eP  | 53.8 <sup>C</sup>  |             | 9820  | 88.4  |
| Oroville               | eP  | 57.4               |             | 9910  | 89.2  |
| Dugway                 | eP  | 04 00 01.2         |             | 9965  | 89.8  |
| Uinta Basin            | eP  | 01.7               |             | 9980  | 89.8  |
| Eureka                 | iP  | 03.2               |             | 10005 | 90.1  |
| Jamestown              | eP  | 06.4 <sup>C</sup>  |             | 10105 | 90.9  |
| San Luis Dam           | iP  | 10.9 <sup>D</sup>  |             | 10185 | 91.7  |
| Goldstone              | P   | 22                 | SP 04 00 28 | 10450 | 94.1  |
| Wichita M <sup>r</sup> | eP  | 27.3               |             | 10620 | 95.6  |
| Tonto Forest           | eP  | 29.6               |             | 10630 | 95.7  |
| Byrd                   | PKP | 06 47.8            |             | 16585 | 149.3 |

inscrit à Kongsberg.

V. - 7 Janvier

Nord-Est de la Chine.

37°6 N ; 114°9 E ; h = 33<sup>km</sup> ; H = 04<sup>h.05<sup>mn</sup>28<sup>s.</sup></sup>(CGS)  
 37°5 N ; 115°1 E ; H = 04<sup>h.05<sup>mn</sup>28<sup>s.</sup></sup>(URSS)

M. = 5.3(Blue M.) ; 5.2(College - Nairobi) ; 5.1(Dugway) ; 5.0(CGS) ;  
 4.9(NurmiJaerwi) ; 4.7(Kajaani) ; 4.5(Tonto Forest).

Séoul iP 04 07 47 1065 9.6



|                 |      |                   |    |            |       |       |
|-----------------|------|-------------------|----|------------|-------|-------|
| Oulan_Bator     | P    | 04 08 27          |    |            | 1320  | 11:9  |
| Esen_Boulak     | eP   | 09 31             |    |            | 1820  | 16:4  |
| Matsushiro      | P    | 54                |    |            | 2070  | 18:6  |
| Bodajbo         | iP   | 10 13             |    |            | 2250  | 20:3  |
| Talgar          | eP   | 11 39             |    |            | 3215  | 28:9  |
| Tiksi           | eP   | 12 26             |    |            | 3875  | 34:9  |
| Tachkent        | eP   | 31:5 <sup>C</sup> |    |            | 3900  | 35:1  |
| Moskva          | eP   | 14 55             |    |            | 5905  | 53:1  |
| Sodankylä       | eP   | 15 11             |    |            | 6145  | 55:3  |
| Kajaani         | iP   | 13:6              | i  | 04 15 16:5 | 6190  | 55:7  |
| Oulu            | eP   | 16                |    |            | 6245  | 56:2  |
| Kiruna          | iP   | 28:2              |    |            | 6380  | 57:4  |
| Nurmijaerwi     | eP   | 34                |    |            | 6465  | 58:2  |
| Uméa            | iP   | 36:3              |    |            | 6550  | 58:9  |
| College         | iP   | 40:5              |    |            | 6620  | 59:6  |
| Gilmore Creek   | eP   | 41:1              |    |            | 6620  | 59:6  |
| Warramunga      | eP   | 42:5              |    |            | 6680  | 60:1  |
| Pedro Dome      | eP   | 43:2              |    |            | 6620  | 59:6  |
| Palmer          | eP   | 45:2              |    |            | 6710  | 60:4  |
| Black Rapids    | eP   | 48:1              |    |            | 6765  | 60:9  |
| Mts Sheep Creek | eP   | 50:8              |    |            | 6780  | 61:0  |
| Mould Bay       | eP   | 52                |    |            | 6820  | 61:4  |
| Uppsala         | iP   | 54                | i  | 57:1       | 6855  | 61:7  |
| Skalstugan      | iP   | 16 03:9           |    |            | 6915  | 62:2  |
| Uddeholm        | iP   | 06:1              |    |            | 7045  | 63:4  |
| Charters Towers | eP   | 15                |    |            | 7180  | 64:6  |
| Resolute        | eP   | 23                |    |            | 7355  | 66:2  |
| Collm           | eP   | 41                |    |            | 7580  | 68:2  |
| Yellow Knife    | eP   | 17 03             |    |            | 8075  | 72:7  |
| Edmonton        | eP   | 48                |    |            | 8920  | 80:3  |
| Pendicton       | eP   | 50                |    |            | 8990  | 80:9  |
| Nairobi         | iP   | 55 <sup>C</sup>   |    |            | 9035  | 81:3  |
| Nordman         | eP   | 18 00             |    |            | 9180  | 82:6  |
| Newport         | eP   | 01                |    |            | 9200  | 82:8  |
| Suffield        | eP   | 04                |    |            |       |       |
| Hungry Horse    | eP   | 09:2              | i  | 18 11      | 9335  | 84:0  |
| Blue M.         | eP   | 13:6              |    |            | 9480  | 85:3  |
| Butte           | eP   | 20                |    |            | 9610  | 86:5  |
| Mineral         | eP   | 23:4 <sup>D</sup> |    |            | 9640  | 86:7  |
| Oroville        | eP   | 26:2              |    |            | 9710  | 87:4  |
| Mt. Hamilton    | eP   | 26:6              |    |            | 9890  | 89:0  |
| Jamestown       | eP   | 34:1 <sup>D</sup> |    |            | 9900  | 89:1  |
| Ifrane          | P    | 35                |    |            | 9990  | 89:9  |
| Digway          | eP   | 41:2              |    |            | 10120 | 91:1  |
| Flaming Gorge   | eP   | 45:3              |    |            | 10210 | 91:9  |
| Goldstone       | P    | 51                | SP | 19 03      | 10335 | 93:0  |
| Tonto Forest    | eP   | 19 10:5           |    |            | 10735 | 96:6  |
| La Paz          | ePKP | 25 36             |    |            | 17650 | 158:8 |
| Penas           | ePKP | 36:3              |    |            | 17615 | 158:5 |

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Utah (USA)

38°8 N ; 111°6 W ; h = 33<sup>km</sup> ; H = 04h.15<sup>mn</sup>57<sup>s</sup>. (CGS)

|               |      |            |     |            |     |     |
|---------------|------|------------|-----|------------|-----|-----|
| Price         | eP   | 04 16 14.3 | eL  | 04 16 25.5 | 110 | 1.0 |
| Horse Canyon  | P    | 16.1       |     |            | 135 | 1.3 |
| Dugway        | eP   | 24.2       | eL  | 47.2       | 180 | 1.6 |
| Glen Canyon   | eP   | 27.8       | 1LG | 50.5       | 210 | 1.9 |
| Uinta Basin   | eP   | 34         | eLG | 17 02.6    | 245 | 2.2 |
| Flaming Gorge | (Pn) | 42         | 1LG | 18.4       | 300 | 2.7 |
| Eureka        | 1P   | 56.5       |     |            | 390 | 3.5 |
| Tonto Forest  | eP   | 17 16      | eLG | 18 11.3    | 510 | 4.6 |

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Océan Atlantique

35°8 N ; 8° 1/2 W ; H = 07h.07<sup>mn</sup>(33s) (Rabat)

|          |     |                   |      |            |     |     |
|----------|-----|-------------------|------|------------|-----|-----|
| Averroes | ePn | 07 08 22.5        | 1Sn  | 07 08 55.5 | 295 | 2.7 |
| Ifrane   | 1P  | 33.3 <sup>D</sup> | e1Sn | 09 16      | 390 | 3.5 |

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Sud des Iles Mariannes'

12°3 N ; 143° 6 E ; h = 33<sup>km</sup> ; H = 07h.09<sup>mn</sup>31.5<sup>s</sup>. (CGS)

M. = 5.4(Adélaïde); 5.3(Newport); 4.8(CGS - Palmer - Blue M. -  
 Uinta Basin); 4.6(Eureka); 4.3(Dugway); 4.2(Tonto Forest)

|                 |    |                      |    |          |                 |                 |
|-----------------|----|----------------------|----|----------|-----------------|-----------------|
| Guan            | 1P | 07 09 59             | eS | 07 10 18 | 200             | 1.8             |
| Charters Towers | 1P | 15 57.9              |    |          | 3580            | 32.2            |
| Warramunga      | eP | 16 07.5              |    |          | 3700            | 33.3            |
| Adélaïde        | 1P | 18 03.5              |    |          | 5245            | 47.2            |
| Palmer          | eP | 20 30                |    |          | 7610            | 68.5            |
| Mts Sheep Creek | eP | 37.7                 |    |          | 7710            | 69.4            |
| College         | eP | 39                   |    |          | 7765            | 69.9            |
| Gilmore Creek   | eP | 40.7                 |    |          | 7790            | 70.1            |
| Black Rapids    | eP | 43.6                 |    |          | 7820            | 70.4            |
| Mould Bay       | 1P | 21 33 <sup>D</sup>   |    |          | 8880            | 79.9            |
| Coppermine      | eP | 54                   |    |          | 9220            | 83.0            |
| Resolute        | eP | 22 10.5 <sup>D</sup> |    |          | <del>9565</del> | <del>83.1</del> |
| Newport         | eP | 15                   |    |          | 9665            | 87.0            |
| Nordman         | eP | 16                   |    |          | 9665            | 87.0            |
| Blue M.         | eP | 19.2                 |    |          | 9755            | 87.8            |
| Edmonton        | eP | 20                   |    |          | 9765            | 87.9            |
| Eureka          | 1P | 31.8                 |    |          | 10020           | 90.2            |
| Goldstone       | P  | 34                   |    |          | 10080           | 90.7            |

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|              |     |          |       |       |
|--------------|-----|----------|-------|-------|
| Dugway       | eP  | 07 22 41 | 10255 | 92°3  |
| Uinta Basin  | eP  | 50.7     | 10510 | 94.6  |
| Tonto Forest | eP  | 56       | 10590 | 95.3  |
| Lamto        | PKP | 29 05.8  | 15980 | 143.9 |
| Penas        | PKP | 13.4     | 16510 | 148.6 |
| La Paz       | PKP | 19.5     | 16555 | 149.0 |

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Près de la cote, région est de la Russie.

43°7 N ; 134°0 E ; h = 378km ; H = 07h.42<sup>mn</sup>04<sup>s</sup>. (CGS)

M. = 5.1(Mt. Tsukuba) ; 4.7(Nurmijaerwi) ; 4.6(Kajaani) ; 4.5(CGS) ;  
3.4(Blue M. - Uinta Basin).

|                 |     |                   |               |           |
|-----------------|-----|-------------------|---------------|-----------|
| Matsushiro      | 1P  | 07 43 59.8        |               |           |
| Mt. Tsukuba     | 1P  | 44 07.2           |               |           |
| Dodaira         | eP  | 08                | IS 07 45 44.6 | 980 8.8   |
| Kiyosumi        | eP  | 18.7              |               | 955 8.6   |
| Wakaura W.      | eP  | 20.3              |               | 1080 9.7  |
| Oishiyama       | eP  | 21.1              |               | 1055 9.5  |
| Black Rapids    | eP  | 50 06.9           |               | 1065 9.6  |
| Mould Bay       | 1P  | 35.6 <sup>D</sup> |               | 5320 47.9 |
| Sodankylä       | eP  | 51 02             |               | 5755 51.8 |
| Kajaani         | 1P  | 20                |               | 6290 56.6 |
| Oulu            | 1P  | 20.4              |               | 6455 58.1 |
| Kiruna          | 1P  | 20.6              |               |           |
| Uméa            | 1P  | 38.2 <sup>D</sup> |               |           |
| Nurmijaerwi     | 1P  | 42.1              |               | 6820 61.4 |
| Uppsala         | 1P  | 52 01.3           |               |           |
| Charters Towers | eP  | 02                |               | 7155 64.4 |
| Uddeholm        | 1P  | 09.6              |               |           |
| Lillehammer     | 1P  | 11                |               | 7320 65.9 |
| Niedzica        | e1P | 42 <sup>D</sup>   |               |           |
| Blue M.         | eP  | 45.7              |               | 7935 71.4 |
| Collm           | 1P  | 51.2              |               | 8055 72.5 |
| Erlangen        | eP  | 53 09.5           |               |           |
| Uinta Basin     | eP  | 28.9              |               | 8735 78.6 |
| Tonto Forest    | eP  | 54 00.6           |               | 9145 82.3 |

Inscrit à La Paz - Penas.

X.- 7 Janvier

Région de la Nouvelle Irlande

5°1 S ; 153°9 E ; h = 118km ; H = 09h.56<sup>mn</sup>40.3<sup>s</sup>. (CGS)  
5°0 S ; 154°0 E ; h = 102km ; H = 09h.56<sup>mn</sup>18<sup>s</sup>. (URSS)

Ressenti III - IV à Rabaul

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M = 6.2 (Adelaide, Kalgoorlie), 6.1 (Mundaring), 6.0 (Poona), 5.9 (Edmonton), 5.6 (CGS, Wichita M., Riverview), 5.4 - 5.8 (Berkeley), 5.4 (College, Newport), 5.2 (Palmer), 5.1 (Blue M. Lasa Center), 5.0 (Mt Tsukuba), 4.8 (Uinta Basin), 4.5 (Tonto Forest).

|                   |    |         |       |     |          |      |      |  |
|-------------------|----|---------|-------|-----|----------|------|------|--|
| Rabalanakala      | EP | 09 57   | 12D   |     |          |      |      |  |
| Wanliss Street    | IP |         | 12.8D |     |          |      |      |  |
| Rabaul            | IP |         | 13.2  | IS  | 09 57 37 | 220  | 2.0  |  |
| Sulphur Creek     | IP |         | 13.3D |     |          |      |      |  |
| Keravat           | IP |         | 14D   |     |          |      |      |  |
| Lae               | EP | 58      | 24    |     |          | 300  | 7.2  |  |
| Honiara           | EP |         | 26    | ES  | 59 43    | 820  | 7.4  |  |
| Port Moresby      | IP |         | 35.8  |     |          | 890  | 8.0  |  |
| Luganville        | IP | 10 00   | 28C   |     |          |      |      |  |
| Charters Towers   | IP |         | 30    | IS  | 10 03 20 | 1855 | 16.7 |  |
| Lonore            | EP |         | 40.4  |     |          |      |      |  |
| Port Vila         | IP |         | 53.6C |     |          |      |      |  |
| Guam              | IP | 01 12   |       | ES  | 04 43    | 2280 | 20.5 |  |
| Nouméa            | IP |         | 14.1C | IS  | 05 02    |      |      |  |
| Brisbane          | EP |         | 28.8  | IS  | 25       | 2465 | 22.2 |  |
| Darwin            | EP |         | 42    | ES  | 54       | 2655 | 23.9 |  |
| Warramunga        | EP |         | 46.5  | e   | 06 23.5  |      |      |  |
| Riverview         | IP | 02      | 28.5  | ES  | 07 03    | 3190 | 28.7 |  |
| Canberra          | IP |         | 43.6  | IS  | 38       |      |      |  |
| Adelaide          | IP | 03 05   |       |     |          | 3655 | 32.9 |  |
| Toolangi          | IP |         | 08C   | ES  | 08 20    | 3700 | 33.3 |  |
| Karapiro          | EP |         | 50    |     |          | 4245 | 38.2 |  |
| Manila            | EP |         | 58    |     |          |      |      |  |
| Kalgoorlie        | IP | 04 03.5 |       |     |          | 4420 | 3.8  |  |
| Meekeatharra      | IP |         | 03.7C |     |          |      |      |  |
| Wellington        | EP |         | 08    | e   | 13 22    | 4510 | 40.6 |  |
| Mcnowai           | IP |         | 23    |     |          | 4700 | 42.3 |  |
| Kiyosumi          | EP |         | 24    |     |          | 4680 | 42.1 |  |
| Oishiyama         | EP |         | 25.8  |     |          | 4745 | 42.7 |  |
| Mt Tsukuba        | EP |         | 29.3  | e   | 05 17.4  | 4790 | 43.1 |  |
| Dodaira           | IP |         | 29.8  | ES  | 10 48.1  | 4700 | 43.1 |  |
| Anpu              | IP |         | 33.5C | (S) | 11 17    | 4835 | 43.5 |  |
| Matsushiro        | P  |         | 35    | S   | 10 53    |      |      |  |
| Shiraki           | P  |         | 38.3  |     |          | 4910 | 44.2 |  |
| Mundaring         | IP |         | 39.1  |     |          | 4920 | 44.3 |  |
| Hong Kong         | IP | 05 07C  |       | ES  | 11 55    | 5280 | 47.5 |  |
| Séoul             | EP |         | 14    |     |          | 5480 | 49.3 |  |
| Macquarie Island  | EP |         | 21    |     |          | 5500 | 49.5 |  |
| Kourilsk          | EP |         | 28    | ES  | 12 31    | 5600 | 50.4 |  |
| Vladivostok       | EP |         | 39C   | EP  | 06 04    | 5770 | 51.9 |  |
| Youjno Sakhalinsk | EP |         | 46    | ES  | 13 05    | 5870 | 52.8 |  |
| Severo Kourilsk   | EP | 06 05.4 |       | ES  | 42.4     | 6170 | 55.5 |  |
| Petropavlovsk     | EP |         | 23    |     |          | 6445 | 58.0 |  |
| Terre Adélie      | IP |         | 50.9  |     |          | 6910 | 62.2 |  |
| Adak              | EP |         | 51    |     |          | 6900 | 62.1 |  |
| Magadan           | EP | 07 05   |       | S   | 15 32    | 7155 | 64.4 |  |
| Chittagong        | EP |         | 21    |     |          | 7390 | 66.5 |  |

|                 |    |          |       |          |        |      |  |
|-----------------|----|----------|-------|----------|--------|------|--|
| Oulan Bator     | IP | 10 07 22 | S     | 10 1608  |        |      |  |
| Yakoutsk        | IP | 38       | S     | 36       | 77 10  | 69.4 |  |
| Bodajbo         | IP | 43C      |       |          | 78 20  | 70.4 |  |
| Esen Boulak     | IP | 56       | S     | 17 15    |        |      |  |
| Scott Base      | P  | 08 00    | S     | 21       | 8 120  | 73.1 |  |
| Mimy            | IP | 04       | eS    | 21       | 8 235  | 74.1 |  |
| Big Mountain    | IP | 13       |       |          | 8 410  | 75.7 |  |
| Sparrevohn      | IP | 20.9     |       |          | 8 510  | 76.6 |  |
| Tiksi           | IP | 27       | iS    | 18 12    | 8 700  | 78.3 |  |
| Palmer          | eP | 34.7     |       |          | 8 835  | 79.5 |  |
| Mts Sheep Creek | IP | 40.3     |       |          | 8 920  | 80.3 |  |
| Tanana          | IP | 41.3     |       |          | 8 945  | 80.5 |  |
| College         | IP | 45.6     |       |          | 9 080  | 81.7 |  |
| Gilmore Creek   | eP | 46.4     |       |          | 9 100  | 81.9 |  |
| Pedro Dome      | IP | 47       |       |          | 9 100  | 81.9 |  |
| Black Rapids    | P  | 47.6     |       |          | 9 090  | 81.8 |  |
| Poma            | IP | 50C      |       |          | 9 135  | 82.2 |  |
| Barrow          | eP | 51.5     |       |          | 9 190  | 82.7 |  |
| Semipalatinsk   | P  | 55.4D    | eP    | 0 9 25.1 | 9 20   | 83.6 |  |
| Lahore          | P  | 58       | S     | 1 9 12   | 9 310  | 83.8 |  |
| Talgar          | IP | 59C      | iS    | 14C      | 9 310  | 83.8 |  |
| Byrd            | IP | 0 9 01   | i     | 10 35.4  | 9 330  | 84.4 |  |
| South Pole      | IP | 0 10 2.9 | (SP)  | 0 9 28.2 | 9 445  | 85.0 |  |
| Mawson          | IP | 06.9     |       |          | 9 535  | 85.8 |  |
| Frounze         | IP | 08       | iS    | 19 31    | 9 510  | 85.6 |  |
| Warsak          | IP | 11.2C    |       |          | 9 620  | 86.6 |  |
| Berkeley        | eP | 18       |       |          | 9 800  | 88.2 |  |
| Garm            | IP | 20C      |       |          | 9 800  | 88.2 |  |
| Mt Hamilton     | eP | 23.8     |       |          | 9 845  | 88.6 |  |
| Oroville        | eP | 24       |       |          | 9 890  | 89.0 |  |
| Mineral         | eP | 24.9D    |       |          |        |      |  |
| Tachkent        | IP | 25D      | iS    | 20 07    | 9 920  | 89.9 |  |
| Douchambé       | IP | 25D      | iS    | 08       | 9 930  | 89.4 |  |
| San Luis Dam    | eP | 25.2     | i     | 09 53.5  | 9 880  | 88.9 |  |
| Priest          | eP | 27.7     |       |          | 9 920  | 89.3 |  |
| Jamestown       | eP | 27.8     |       |          | 9 955  | 89.6 |  |
| Quetta          | IP | 28.3C    | eS    | 20 10    | 9 990  | 89.9 |  |
| Pasadena        | eP | 33       | i(SP) | 0 56     | 10 120 | 91.1 |  |
| Penticton       | eP | 37       |       |          |        |      |  |
| Blue M.         | eP | 39.9     |       |          | 10 200 | 92.7 |  |
| Nordman         | eP | 42       | e     | 10 10    | 10 355 | 93.2 |  |
| Newport         | eP | 43       | e     | 10       | 10 335 | 93.0 |  |
| Eureka          | IP | 43.8C    | i(SP) | 12.1     | 10 365 | 93.3 |  |
| Mould Bay       | IP | 45.5C    |       |          | 10 455 | 94.1 |  |
| Coppermine      | eP | 49.3C    |       |          | 10 555 | 95.0 |  |
| Yellknife       | eP | 51       |       |          |        |      |  |
| Hungry Horse    | eP | 52.9     | e     | 19.5     | 10 565 | 95.1 |  |
| Edmonton        | eP | 54       |       |          | 10 635 | 95.7 |  |
| Sverdlovsk      | IP | 54C      |       |          | 10 670 | 96.0 |  |
| Dugway          | eP | 55.2     |       |          | 10 635 | 95.7 |  |
| Mashad          | eP | 58       |       |          | 10 720 | 96.5 |  |
| Tonto Forest    | eP | 10 01.4  | eP    | 30.7     | 10 755 | 96.8 |  |
| Bozeman SSS     | eP | 02       | e     | 24       | 10 745 | 96.7 |  |
| Uinta Basin     | eP | 06.2     | eS    | 20 30    | 10 910 | 98.2 |  |

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|                  |       |            |        |            |  |       |       |
|------------------|-------|------------|--------|------------|--|-------|-------|
| Tucson           | eP    | 10 10 06.8 |        |            |  | 10800 | 97.2  |
| Albuquerque      | eP    | 13         |        |            |  | 11200 | 100.8 |
| Resolute         | eP    | 13         |        |            |  | 11155 | 100.4 |
| Lasa Center      | iP    | 15.8       | i (SP) | 10 10 44.1 |  | 11155 | 100.4 |
| Kevo             | eP    | 40         | e      | 15 40      |  | 11880 | 106.9 |
| Tabriz           | eP    | 45         | iPP    | 16         |  |       |       |
| Wichita M.       | eP    | 49.8       | eSS1   | 21 19      |  | 11910 | 107.2 |
| Kajaani          | PKP   | 14 58      |        |            |  | 12190 | 10.97 |
| Oulu             | ePKP  | 58         |        |            |  |       |       |
| Sodankylae       | ePKP  | 58         |        |            |  |       |       |
| Umea             | ePKP  | 15 02      | iSSS   | 31 19      |  |       |       |
| Nurmijaervi      | PKP   | 02         | iPP    | 15 58.2    |  | 12535 | 112.8 |
| Sudbury          | ePKP  | 12         |        |            |  |       |       |
| Cumberland pl.   | PKP   | 12.8       |        |            |  | 13065 | 117.6 |
| Tabriz           | (PKP) | 13         |        |            |  | 11890 | 107.0 |
| Nairobi          | PKP   | 13         |        |            |  | 12990 | 116.9 |
| Bilawayo         | iPKP  | 19C        | e      | 16 46      |  |       |       |
| Qijgod           | ePKP  | 19         | e      | 15 56      |  | 13370 | 120.3 |
| Black Rapids     | PKP   | 19.9       | e      | 28 04      |  | 13455 | 121.1 |
| Niedzica         | ePKP  | 21         |        |            |  |       |       |
| Brébeuf          | PKP   | 22.1       |        |            |  | 13600 | 122.4 |
| Broken Hill      | ePKP  | 23         | e      | 15 54      |  |       |       |
| Collm            | PKP   | 24.5       | es     | 57         |  | 13735 | 123.6 |
| Pruhonice        | PKP   | 25         |        |            |  | 13745 | 123.7 |
| Kasperské Hory   | PKP   | 27         |        |            |  | 13855 | 124.7 |
| Butare           | iPKP  | 28.5       | e      | 17 40      |  |       |       |
| Erlangen         | ePKP1 | 28.9       |        |            |  |       |       |
| Furstenfeldbruck | ePKP  | 30         | ePP    | 31         |  |       |       |
| Bangui           | iPKP1 | 31.5       | iPKP1  | 16 00.5    |  |       |       |
| Penas            | PKP   | 33.9       | PKS    | 18 56.6    |  | 14780 | 133.0 |
| La Paz           | PKP   | 35         | ePKP   | 53         |  | 14800 | 133.2 |
| Huancayo         | PKP   | 36.8       |        |            |  | 14245 | 128.2 |
| Arequipa         | PKP   | 39.3       |        |            |  | 14480 | 130.3 |
| Bogota           | PKP   | 43         | i      | 31         |  | 14690 | 132.2 |
| Quito            | ePKP  | 16 04      | e      | 34 47      |  |       |       |
| Tamanrasset      | iPKP  | 05C        | i      | 16 37      |  |       |       |
| Moca             | PKIKP | 07         |        |            |  | 16145 | 145.3 |
| Ifrane           | PKP   | 07         | e      | 35         |  | 14180 | 145.6 |
| Rabat            | PKP   | 10         | LM     | 12 22      |  | 16235 | 146.1 |
| Averroes         | PKP   | 10.5       |        |            |  | 16335 | 147.0 |
| Lanto            | PKP   | 27.2       |        |            |  | 17665 | 15.90 |
| M'bour           | iPKP1 | 35         | i(PP)  | 21 28      |  |       |       |
| Trieste          | ePP   | 17 28      | e(SS)  | 34 18      |  |       |       |

Inscrit à Nat. Univ. Mexico, Hermanus, Strasbourg, Toledo, Ponta Delgada, Bucaresti, Kermanshah, Moxa, Ljubljana, Jérusalem.

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Au large de la cote Est de Hondo (Japon)

|           |           |          |  |
|-----------|-----------|----------|--|
| 33° 5'N.  | 141° 6'E  | h = 48km | H = 11 <sup>h</sup> 12 <sup>mn</sup> 33.9 <sup>s</sup> { CGS |
| 34° 3'N.  | 140° 8'E  |          | H = 11 <sup>h</sup> 12 <sup>mn</sup> 43 <sup>s</sup> (URSS)  |
| 33° 36'N. | 142° 01'E | h = 40km | H = 11 <sup>h</sup> 12 <sup>mn</sup> 28.8 <sup>s</sup> (JMA) |

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M = 6.7 (Tonto Forest), 6.2 (MLH Moxa), 6.1 (URSS), 6.5 (De Bilt),  
6.4 (Roma), 6.0 (Uppsala, Kiruna), 5.8 - 6.2 (Berkeley), 5.8  
(College), 5.6 (JMA), 5.5 (CGS, Uinta Basin), 5.0 (Dugway, Wichita  
M), 4.2 (Eureka).

|                 |      |       |       |      |       |         |      |      |
|-----------------|------|-------|-------|------|-------|---------|------|------|
| Kiyosumi        | EP   | 11 13 | 06.1  |      |       |         | 235  | 2.1  |
| Choshi          | EP   |       | 08.8  | i    | 11 13 | 39.4    | 255  | 2.3  |
| Tokyo           | EP   |       | 17    | e    |       | 14 23.8 | 295  | 2.7  |
| Mt Tsukuba      | IP   |       | 17.7  |      |       |         | 335  | 3.0  |
| Dodaira         | EP   |       | 23.4  |      |       |         | 355  | 3.2  |
| Kofu            | EP   |       | 25.3  | bes  |       | 05      | 365  | 3.3  |
| Matsushiro      | IP   |       | 34.8  | S    |       | 25      | 455  | 4.1  |
| Kyoto           | EP   |       | 51.6  | es   |       | 4.9     | 565  | 5.1  |
| Oishiyama       | EP   |       | 53.6  |      |       |         | 580  | 5.2  |
| Wakaura W.      | EP   |       | 55.3  |      |       |         | 600  | 5.4  |
| Morioka         | P    | 14    | 01.2  | e    | 15    | 28.4    | 680  | 6.2  |
| Hachinohe       | EP   |       | 12.1  | es   |       | 28.3    | 780  | 7.0  |
| Shiraki         | EP   |       | 27    |      |       |         | 835  | 7.5  |
| Hiroshima       | EP   |       | 28.9  | e(S) | 16    | 13      | 850  | 7.7  |
| Nagasaki        | EP   | 15    | 00    | es   | 17    | 05.2    | 1045 | 9.9  |
| Vladivostok     | EP   |       | 22    | es   |       | 30      | 1360 | 12.3 |
| Kourilsk        | EP   |       | 38    |      |       |         | 1410 | 12.7 |
| Anpu            | IP   | 16    | 55C   | e    | 20    | 50      | 2145 | 19.3 |
| Glam            | EP   | 17    | 06    | es   |       | 48      | 2235 | 29.1 |
| Severo Kourilsk | IP   |       | 06.4C | S    |       | 58      | 2245 | 20.2 |
| Petropavlovsk   | IP   |       | 38C   | e    |       | 18 04   | 2555 | 23.0 |
| Baguio          | EP   |       | 57    | is   |       | 22 32   | 2820 | 25.4 |
| Hong Kong       | EP   | 18    | 08C   | e(S) |       | 54      | 2955 | 26.6 |
| Magadan         | EP   |       | 12    | e    |       | 18 38   | 2975 | 26.8 |
| Oulan Bat or    | IP   |       | 37    | S    |       | 23 39   | 3300 | 29.7 |
| Bodajbo         | IP   |       | 43    |      |       |         | 3400 | 30.6 |
| Irkoutsk        | EP   | 19    | 04    |      |       |         | 3630 | 32.7 |
| Esen Boulak     | P    |       | 43    |      |       |         | 4065 | 36.6 |
| Tiksi           | EP   |       | 50    |      |       |         | 4310 | 38.8 |
| Chittagong      | EP   | 20    | 48    |      |       |         | 5000 | 45.0 |
| Honiarra        | EP   |       | 57    | es   |       | 27 40   | 5120 | 46.1 |
| Semipalatinsk   | P    | 21    | 02.7D |      |       |         | 5250 | 47.3 |
| Big Mountain    | EP   |       | 12.7  |      |       |         | 5380 | 48.4 |
| Sparrevohn      | EP   |       | 13.8  |      |       |         | 5365 | 48.3 |
| Talgar          | i(P) |       | 27C   | 1(S) | 28    | 27      | 5805 | 52.2 |
| Palmer          | EP   |       | 34.5  |      |       |         | 5710 | 51.4 |
| Gilmore Creek   | EP   |       | 41    |      |       |         | 5800 | 52.2 |
| College         | EP   |       | 41    |      |       |         | 5740 | 52.1 |
| Fr unze         | EP   |       | 42C   |      |       |         | 5805 | 52.2 |
| Pedro Dome      | EP   |       | 42.4  |      |       |         | 5800 | 52.2 |
| Mts Sheep Creek | EP   |       | 43.1  |      |       |         | 5810 | 52.3 |
| Black Rapids    | EP   |       | 47.6  |      |       |         | 5880 | 52.9 |
| Warramunga      | EP   |       | 48.5  |      |       |         | 5955 | 53.6 |
| Charters Towers | EP   |       | 52    | is   | 29    | 18      | 5940 | 53.5 |
| Lahore          | P    | 22    | 08    |      |       |         | 6205 | 55.8 |
| Kheis           | EP   |       | 12    | SP   | 22    | 43      | 6235 | 56.1 |
| Tachkent        | IP   |       | 13D   |      |       |         | 6270 | 56.5 |
| Garm            | EP   |       | 14    |      |       |         | 6270 | 56.4 |
| Warsak          | P    |       | 18    |      |       |         | 6355 | 57.2 |

|                |     |           |      |          |                 |       |
|----------------|-----|-----------|------|----------|-----------------|-------|
| Douchambé      | iP  | 11 22 23C | 1S   | 11 30 20 | 6410            | 57° 7 |
| Sverdlovsk     | iP  | 23C       |      |          | 6435            | 57° 9 |
| Brisbane       | eP  | 51        | 1S   | 31 0 9   |                 |       |
| Quetta         | iP  | 52·4C     | eS   | 14       | 6 910           | 62° 2 |
| Coppermine     | eP  | 23 00·2   |      |          | 7 135           | 64° 2 |
| Resolute       | eP  | 15        |      |          | 7335            | 66° 0 |
| Mashad         | eip | 16        |      |          | 7255            | 65° 3 |
| Kalgoolie      | iP  | 21·9D     |      |          | 7410            | 66° 7 |
| Kizyl Ar vat   | P   | 22D       |      |          | 7390            | 66° 5 |
| Adelaide       | eP  | 35        |      |          | 7580            | 66° 2 |
| Kajaani        | iP  | 41·4      |      |          | 7760            | 69° 8 |
| Oulu           | eP  | 43        |      |          | 7765            | 69°   |
| Moskva         | eP  | 45        | ePP  | 24 03    | 7800            | 70° 2 |
| Kiruna         | iP  | 45·5      | 1S   | 32 54    | 7765            | 69° 9 |
| Kevo           | ePP | 46        | eS   | 10       | <del>7420</del> | 66° 8 |
| Téhéran        | eP  | 52        |      |          | 7 945           | 71° 5 |
| Edmonton       | eP  | 53        |      |          | 8010            | 72° 1 |
| Newport        | eP  | 57        |      |          | 8065            | 72° 6 |
| Nordman        | eP  | 57        |      |          | 8055            | 72° 5 |
| Kirovabad      | eP  | 57        |      |          | 8075            | 72° 7 |
| Uméa           | iP  | 57·5      | 1S   | 33 16    | 8065            | 72° 6 |
| Goris          | iP  | 24 00     |      |          | 8135            | 73° 2 |
| Numijaervi     | eP  | 01        |      |          | 8120            | 73° 1 |
| Chiraz         | P   | 03        | 1L   | 35       | 8145            | 73° 3 |
| Tbilisi        | eP  | 04        |      |          | 8125            | 73° 1 |
| Blue M.        | eP  | 06        |      |          | 8255            | 74° 3 |
| Mineral        | eP  | 05·7C     |      |          | 8200            | 73° 8 |
| Oroville       | eP  | 06·5      |      |          | 8220            | 74° 3 |
| Tabriz         | iP  | 08        | i    | 42       | 8210            | 73° 9 |
| Hungry Horse   | eP  | 10·4      | e    | 24 25·7  | 8255            | 74° 3 |
| Berkeley       | eP  | 11·6C     |      |          | 8300            | 74° 7 |
| Jamestown      | eP  | 15·9D     |      |          | 8435            | 75° 9 |
| San Luis Dam   | eP  | 18        |      |          | 8420            | 75° 8 |
| Uppsala        | iP  | 18·7      | i    | 32·9     | 8465            | 76° 2 |
| Butte          | eP  | 19·7      |      |          | 8490            | 76° 4 |
| Bakuria ni     | iPP | 25        |      |          | 8215            | 74° 0 |
| Eureka         | iP  | 29·1      |      |          | 8665            | 78° 0 |
| Uddevalla      | eP  | 31        |      |          |                 |       |
| Dugway         | eP  | 37·3      |      |          | 8845            | 79° 6 |
| Pasadena       | eP  | 38        | eS   | 34 35    | 8820            | 79° 4 |
| Goteborg       | eP  | 43        |      |          | 8865            | 79° 8 |
| Uinta Basin    | eP  | 48·1      | eSKS | 35 01·1  | 9 055           | 81° 5 |
| Krakow         | eP  | 54        | eS   | 05       | 9125            | 82° 1 |
| Niedzica       | eP  | 54        |      |          | 9150            | 82° 4 |
| Ujgorod        | eP  | 55        |      |          | 9105            | 82° 0 |
| Ksara          | iP  | 00        | iPP  | 28 21    | 9260            | 83° 3 |
| Tonto Forest   | eP  | 25 01·5   | eS   | 35 20    | 9335            | 84° 0 |
| Srobarova      | eP  | 03        |      |          | 9380            | 84° 4 |
| Collm          | eP  | 04        | e    | 25 27    | 9355            | 84° 2 |
| Pruhonice      | P   | 06·2      |      |          | 9400            | 84° 6 |
| Moxa           | eP  | 07·5      |      |          | 9480            | 85° 3 |
| Bratislava     | eP  | 07·7      | e    | 30·2     | 9420            | 84° 8 |
| Kasperské Hory | P   | 08        |      |          | 9510            | 85° 6 |



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|             |                   |            |     |          |       |       |
|-------------|-------------------|------------|-----|----------|-------|-------|
| Tucson      | eP                | 11 25 10.5 | e   | 11 35 40 | 9510  | 85.6  |
| Erlangen    | iP                | 12         |     |          | 9580  | 86.2  |
| Albuquerque | eP                | 14.8       |     |          | 9645  | 86.8  |
| Wichita M.  | eP                | 38.1       | ePP | 29 15.1  | 10200 | 91.8  |
| Bangui      | ePKP <sub>1</sub> | 31 05.8    | iPP | 32 12.5  | 12710 | 114.4 |
| South Pole  | PKP               | 28         |     |          | 13700 | 123.3 |
| Byrd        | pPKP              | 45.6       |     |          | 13810 | 124.3 |
| Penas       | PKP               | 32 16.7    |     |          | 16445 | 148.0 |
| La Paz      | PKP               | 17.4       |     |          | 16490 | 148.4 |
| Trieste     | eS                | 35 51      |     |          | 9790  | 86.1  |

inscrit à De Bilt - L'Aquila - Uccle - Strasbourg -  
 Clermont - Lvov - Praha - M'jour - Fürstenfeldbruck -  
 Hermanus - Lonorore - Istanbul UTI - Roma - Pavia -  
 Osaka - Niigati - Sodankylä - Quito

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Nouvelles Hébrides (Ile Vaté)

H = 13h.33<sup>mn</sup>30s. (Nouméa)

|            |     |            |    |            |
|------------|-----|------------|----|------------|
| Port Vila  | iP  | 13 33 47.1 | iS | 13 34 00.5 |
| Luganville | eIP | 34 01.0    | iS | 27         |
| Lonorore   | eIP | 03.2       | iS | 25         |

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Région de la Nouvelle Bretagne

H = 17h.06<sup>mn</sup>16s. (Rabaul)

|                |    |                         |    |            |
|----------------|----|-------------------------|----|------------|
| Rabalanakaia   | iP | 17 06 44.8 <sup>D</sup> |    |            |
| Rabaul         | iP | 45 <sup>D</sup>         | iS | 17 07 07.5 |
| Wanliss Street | eP | 45 <sup>D</sup>         |    |            |
| Keravat        | eP | 45.5                    | iS | 08         |

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Région des Iles Kermadec

H = 17h.39.3<sup>mn</sup>

|              |      |            |    |          |
|--------------|------|------------|----|----------|
| Raoul Island | iP   | 17 39 51.5 | iS | 17 40 16 |
| Brisbane     | e    | 44 21      |    |          |
| Warramunga   | eP   | 47 00      |    |          |
| South Pole   | eP   | 49 08.1    |    |          |
| NurmiJaerwi  | ePKP | 58 28      |    |          |
| Ka'aani      | iPKP | 59 33.2    |    |          |

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Crete médiane de l'Océan Atlantique Sud

48°9 S ; 8°4 W ; h = 33<sup>km</sup> ; H = 18h.27<sup>mn</sup>12s. (CGS)

|               |    |            |
|---------------|----|------------|
| Sada Bandeira | iP | 18 34 32.9 |
|---------------|----|------------|

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|              |     |                       |                |       |
|--------------|-----|-----------------------|----------------|-------|
| Bulawayo     | iP  | 18 34 55 <sup>D</sup> | 4580           | 41·2  |
| South Pole   | eP  | 55·7                  | 4590           | 41·3  |
| Karoi        | eP  | 35 20                 | 4935           | 44·4  |
| Byrd         | eP  | 31·4                  | 5080           | 45·7  |
| Bangui       | iP  | 37 04·7               | iPP 18 39 17·7 |       |
| Penas        | eP  | 07                    | 6480           | 58·3  |
| Arequipa     | eP  | 18·6                  | 6680           | 60·1  |
| Uinta Basin  | PKP | 46 09·5               | 13955          | 125·6 |
| Tonto Forest | PKP | 15·5                  | 13655          | 122·9 |

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Iles Tonga

16°7 S ; 174°7 W ; h = 119km ; H = 19h.17<sup>mn</sup>34.3<sup>s</sup>. (CGS)

M. = 5·5(College); 4·9(Tonto Forest); 4·8(CGS - Palmer - Uinta Basin);  
4·7(Albuquerque); 4·6(Wichita M.); 4·3(Dugway); 4·1(Blue M.);  
4·0(Eureka)

|                 |       |                         |              |           |
|-----------------|-------|-------------------------|--------------|-----------|
| Luganville      | iP    | 19 21 33·6 <sup>C</sup> | 1945         | 17·5      |
| Nouméa          | iP    | 43·4 <sup>C</sup>       | 2065         | 18·6      |
| Port Moresby    | eP    | 24 41·5                 | 4200         | 37·8      |
| Toolangi        | eP    | 25 08                   | 4510         | 40·6      |
| Kalgoorlie      | iP    | 27 23·9                 | 6600         | 59·4      |
| Byrd            | P     | 28 21·9                 | 7545         | 67·9      |
| South Pole      | eP    | 55                      | 8155         | 73·4      |
| Jamestown       | eP    | 29 00·7                 |              |           |
| Pasadena        | eP    | 01                      | 8210         | 73·9      |
| Mineral         | eP    | 03·5 <sup>D</sup>       |              |           |
| San Luis Dam    | e(P)  | 05·4                    | 8165         | 73·5      |
| Big Mountain    | eP    | 17·2                    | 8610         | 77·5      |
| Tucson          | eP    | 22·5                    | e 19 29 27·5 | 8690 78·2 |
| Eureka          | iP    | 22·9                    | 8700         | 78·3      |
| Sparrevohn      | eP    | 26·1                    | 8790         | 79·1      |
| Tonto Forest    | eP    | 26·2                    | ePCP 30·6    | 8755 78·8 |
| Blue M.         | eP    | 33·1                    | e 32 27·8    | 8945 80·5 |
| Palmer          | eP    | 34·3                    | 8965         | 80·7      |
| Dugway          | eP    | 35                      | 8965         | 80·7      |
| Mts Sheep Creek | eP    | 38·1                    | 9035         | 81·3      |
| Albuquerque     | eP    | 46·5                    | e 29 51      | 9180 82·6 |
| Uinta Basin     | eP    | 47·2                    | 9210         | 82·9      |
| Flaming Gorge   | eP    | 49                      | 9255         | 83·3      |
| College         | iP    | 51·3                    | 9320         | 83·9      |
| Gilmore Creek   | eP    | 51·9                    | 9345         | 84·1      |
| Bozeman SSS     | eP    | 54·5                    | 9355         | 84·2      |
| Wichita M.      | eP    | 30 15·8                 | 9835         | 88·5      |
| Bensberg        | iPKP  | 36 06·5                 |              |           |
| Nairobi         | PKP   | 59                      | 16010        | 144·1     |
| Niedzica        | eIPKP | 37 00·2 <sup>D</sup>    |              |           |
| Moxa            | PKP   | 02                      | 16200        | 145·8     |

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|                |                    |            |                              |       |       |
|----------------|--------------------|------------|------------------------------|-------|-------|
| Pruhonice      | PKP                | 19 29 02.8 |                              | 16220 | 146.0 |
| Collm          | PKP                | 03         |                              | 16100 | 144.9 |
| Vrincloaia     | PKP                | 03         |                              |       |       |
| Kasperské Hory | PKP                | 05         |                              | 16335 | 147.0 |
| Erlangen       | e1PKP <sub>1</sub> | 37 06.6    |                              |       |       |
| Butare         | e1PKP              | 13.6       |                              |       |       |
| Bangui         | iPKP <sub>1</sub>  | 24.7       | iPKP <sub>1</sub> 19 37 51.7 |       |       |

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Près de la cote de Guerrero (Mexique)

17° 28' N ; 101° 31' W ; h = 20h.08<sup>mn</sup>04s. (Tacubaya)

|                   |    |            |    |          |     |     |
|-------------------|----|------------|----|----------|-----|-----|
| Pres. Infiernillo | iP | 20 08 23.5 | iS | 20 08 34 | 95  | 0.9 |
| Nat. Univ. Mexico | iP | 52         | iS | 09 23    | 320 | 2.9 |
| Tacubaya          | iP | 56         |    |          | 329 | 3.0 |
| Vista Hermosa     | iP | 09 16.5    |    |          | 405 | 3.6 |
| Pres. Benito J.   | eP | 37.3       |    |          | 660 | 5.9 |

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Région Ouest de la Nouvelle Guinée

1° 9' S ; 135° 9' E ; h = 33<sup>km</sup> ; H = 21h.09<sup>mn</sup>27s. (CGS)

M. = 4.8 (CGS - Rabaul)

|                 |     |                    |      |          |       |       |
|-----------------|-----|--------------------|------|----------|-------|-------|
| Darwin          | eP  | 21 12 14           | eS   | 21 14 19 | 1290  | 11.6  |
| Keravat         | eP  | 16 <sup>D</sup>    |      |          |       |       |
| Port Moresby    | eP  | 38.5               |      |          | 1490  | 13.4  |
| Rabaul          | eP  | 13 16 <sup>D</sup> | e    | 13 21    | 1820  | 16.4  |
| Warramunga      | eP  | 35.5               | eS   | 16 44    | 2000  | 18.0  |
| Charters Towers | eP  | 14 06              | e(S) | 18 00    | 2300  | 20.7  |
| Brisbane        | iP  | 15 34.6            |      |          | 3345  | 30.1  |
| South Pole      | eP  | 22 14.9            |      |          | 9790  | 88.1  |
| Penas           | PKP | 29 23.1            |      |          | 16655 | 149.9 |
| La Paz          | PKP | 24.4               |      |          | 16680 | 150.1 |

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Iles Kouriles

46° 1' N ; 150° 8' E ; h = 33<sup>km</sup> ; H = 21h.38<sup>mn</sup>45.2s. (CGS)  
 45° 7' N ; 151° 0' E ; h = 127<sup>km</sup> ; H = 21h.38<sup>mn</sup>51s. (URSS)

M. = 5.1 (Stuttgart) ; 4.7 (Eureka - Uinta Basin) ; 4.6 (CGS) ;  
 4.3 (Digway) ; 4.2 (Tonto Forest)

|                   |    |                       |    |          |  |  |
|-------------------|----|-----------------------|----|----------|--|--|
| Kourilsk          | iP | 21 39 30 <sup>D</sup> | iS | 21 39 57 |  |  |
| Severo-Kourilsk   | eP | 40 18.8               | eS | 41 23.8  |  |  |
| Youjno-Sakhalinsk | eP | 19                    | eS | 27       |  |  |

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|                |     |                    |                 |      |      |
|----------------|-----|--------------------|-----------------|------|------|
| Mt. Tsukuba    | eP  | 21 41 46·8         |                 | 1410 | 12·7 |
| Matsushiro     | eP  | 59                 |                 |      |      |
| Yakou tsk      | eP  | 43 17              |                 |      |      |
| Bodajbo        | iP  | 44 08              |                 |      |      |
| Tiksi          | iP  | 31 <sup>C</sup>    |                 |      |      |
| Barrow         | eP  | 45 39·7            |                 | 3920 | 35·3 |
| Palmer         | eP  | 45·6               |                 | 4135 | 37·2 |
| College        | eIP | 46 00              |                 | 4190 | 37·7 |
| Gilmore Creek  | eP  | 01·2               |                 | 4200 | 37·8 |
| Semipalatinsk  | P   | 47 01·1            |                 |      |      |
| Mould Bay      | eP  | 06                 |                 | 5090 | 45·8 |
| Resolute       | iP  | 52·7 <sup>D</sup>  |                 | 5780 | 52·0 |
| Tachkent       | eP  | 48 27 <sup>D</sup> |                 |      |      |
| Kevo           | eP  | 28                 |                 | 6380 | 57·4 |
| Garm           | eP  | 31                 |                 |      |      |
| Warsak         | P   | 40                 |                 | 6610 | 58·5 |
| Douchambé      | eP  | 40 <sup>C</sup>    |                 |      |      |
| Sodankylä      | eP  | 44                 |                 |      |      |
| Blue M.        | eP  | 55·7               |                 | 6755 | 60·8 |
| Oulu           | eP  | 56                 |                 |      |      |
| Kajaani        | eP  | 58                 |                 | 6820 | 61·4 |
| Uméa           | iP  | 49 13·4            |                 |      |      |
| Nurmijaerwi    | eP  | 23                 |                 | 7235 | 65·1 |
| Quetta         | iP  | 23·5 <sup>C</sup>  |                 | 7210 | 64·9 |
| Eureka         | iP  | 23·5               |                 | 7210 | 64·9 |
| Frobisher      | eP  | 30 <sup>C</sup>    |                 | 7355 | 66·2 |
| Digway         | eP  | 31·7               |                 | 7365 | 66·3 |
| Uppsala        | eP  | 39                 |                 |      |      |
| Uinta Basin    | eP  | 43·2               | ePcP 21 50 07·8 | 7585 | 68·1 |
| Uddeholm       | iP  | 44·7               |                 |      |      |
| Kirovabad      | P   | 53                 |                 |      |      |
| Bakouriani     | iP  | 57·2               |                 |      |      |
| Ténéran        | eP  | 50 02              |                 | 7890 | 71·0 |
| Tonto Forest   | eP  | 02·3               | e(PcP) 13·2     | 7910 | 71·2 |
| Tabriz         | eP  | 10                 |                 |      |      |
| Kermanshah     | eP  | 22                 |                 |      |      |
| Chiraz         | P   | 22                 |                 | 8245 | 74·2 |
| Iasi           | P   | 23                 |                 |      |      |
| Oujgorod       | eP  | 27                 |                 |      |      |
| Niedzica       | iP  | 29 <sup>D</sup>    |                 |      |      |
| Collm          | iP  | 32                 |                 | 8490 | 76·4 |
| Pruhonice      | eP  | 37                 |                 | 8565 | 77·1 |
| Moxa           | eP  | 38·5               |                 | 8600 | 77·4 |
| Kasperské Hory | eIP | 42·5               |                 |      |      |
| Erlangen       | eP  | 44·3               |                 |      |      |
| Stuttgart      | eP  | 50·9               |                 | 8855 | 79·7 |
| Champdu Feu    | eP  | 56·7               |                 |      |      |
| Haudompré      | eP  | 59·6               |                 |      |      |

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Haute Silésie. (Pologne)

|          |     |       |       |       |      |
|----------|-----|-------|-------|-------|------|
| Bytom    | e   | 22 58 | 04.9  |       |      |
| Zabrze   | e   |       | 05.4  |       |      |
| Chorzow  | eP  |       | 06.7  |       |      |
| Dąbrowa  | e   |       | 09.1  |       |      |
| Krakow   | ePg | 19.2  | 31.8g | 22 58 | 29.7 |
| Niedzica | ePg | 30.1  | e(8g) |       | 47.1 |

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Nouvelles Hébrides (Ile Vaté)  
H = 01<sup>h</sup>.51<sup>m</sup>08<sup>s</sup>. (Nouméa)

|            |     |       |       |    |       |         |
|------------|-----|-------|-------|----|-------|---------|
| Port Vila  | iP  | 01 51 | 19.7D | 1S | 01 51 | 27      |
| Lonorore   | eiP |       | 39.8  | 1S |       | 52 00.5 |
| Luganville | iP  |       | 46.1D | 1S |       | 18.5    |

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Région des Nouvelles Hébrides

13°7 S ; 171°5 E ; h = 630km ; H = 03<sup>h</sup>.17<sup>m</sup>12.6<sup>s</sup>. (CGS)  
13°7 S ; 171°3 E ; h = 598km ; H = 03<sup>h</sup>.17<sup>m</sup>11<sup>s</sup>. (URSS)  
H = 03<sup>h</sup>.17<sup>m</sup>05<sup>s</sup>. (Nouméa)

M. = 6.2 (Coppermine); 5.9 (Riverview); 5.8 (Rabaul); 5.4 (Dugway);  
5.3 (Tonto Forest); 5.2 - 5.5 (Berkeley); 5.2 (CGS - Lembang - College -  
Bozeman SSS - Albuquerque - Wichita M.); 5.1 (Mundaring - South Pole);  
4.7 (Blue M.); 4.1 (Uinta Basin); 3.8 (Mt. Tsukuba).

|                 |     |       |       |    |         |      |      |      |
|-----------------|-----|-------|-------|----|---------|------|------|------|
| Lonorore        | iP  | 03 18 | 39.9D | 1S | 03 19   | 45   | 420  | 3.8  |
| Luganville      | iP  |       | 44.1C |    |         |      | 500  | 4.5  |
| Port Vila       | iP  |       | 47.7C | 1S | 20 07.8 |      | 555  | 5.0  |
| Nouméa          | iP  | 19    | 31.0  | 1S | 21 24.5 |      | 1090 | 9.8  |
| Honiara         | iP  |       | 52.0  | 1S | 22 06   |      | 1245 | 12.1 |
| Rabaul          | iP  | 21    | 16.0D |    |         |      | 2370 | 21.3 |
| Keravat         | eiP |       | 17D   | 1S | 25 34.5 |      |      |      |
| Brisbane        | iP  |       | 25.3  | i  | 08      |      | 2455 | 22.1 |
| Port Moresby    | iP  |       | 44.5  | eS | 25 14   |      | 2690 | 24.2 |
| Karapiro        | iP  |       | 45.1  | eS | 25      |      | 2710 | 24.4 |
| Charters Towers | iP  |       | 50.8  | 1S | 32      |      | 2770 | 24.9 |
| Riverview       | iP  | 22    | 10.1  |    |         |      | 3020 | 27.2 |
| Wellington      | P   |       | 11.0  |    |         |      | 3070 | 27.6 |
| Canberra        | iP  |       | 30.4V | e  | 22      |      | 3280 | 29.5 |
| Monowai         | P   |       | 50    | eS | 27 27   |      | 3570 | 32.1 |
| Toolangi        | iP  | 23    | 01.3  | eS |         | 41.0 | 3680 | 33.1 |
| Savannah        | iP  |       | 16.9C | i  | 28 20.0 |      | 3680 | 34.9 |
| Moorland        | iP  |       | 20.6  | i  | 22.0    |      | 3945 | 35.5 |
| Tasmania Univ.  | iP  |       | 22.3C | i  | 23.0    |      | 3970 | 35.7 |

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|                        |    |             |     |            |      |      |
|------------------------|----|-------------|-----|------------|------|------|
| Tarraleah              | 1P | 03 23 23.0C | e   | 03 28 22.0 | 3970 | 35.8 |
| Warramunga             | 1P | 24          | e   | 14.5       | 4000 | 36.0 |
| Adelaide               | 1P | 29.0C       | 1S  | 24.5       | 4030 | 36.3 |
| Darwin                 | eP | 53.0        |     |            | 4400 | 39.6 |
| Kalgoorlie             | 1P | 25 04.4C    |     |            |      |      |
| Mundaring              | eP | 37.3C       |     |            | 5945 | 53.5 |
| Terre Adélie           | 1P | 26 00.0     |     |            | 6320 | 56.9 |
| Kyosumi                | eP | 03.2        |     |            | 6330 | 57.0 |
| Mt. Tsukuba            | eP | 07.3        |     |            | 6420 | 57.8 |
| Dodaira                | eP | 09.8        |     |            | 6455 | 58.1 |
| Baguio                 | 1P | 12.8        | 1S  | 33 24.0    | 6500 | 58.5 |
| Lembang                | 1P | 43.0        |     |            | 7000 | 63.0 |
| Adak                   | 1P | 27 00.5     |     |            | 7355 | 66.2 |
| Vladivostok            | eP | 09          | e   | 39 23      |      |      |
| Byrd                   | 1P | 40.4        | ePP | 29 46.7    | 8100 | 72.9 |
| Mirny                  | 1P | 41.0        |     |            | 8100 | 72.9 |
| South Pole             | 1P | 59.2        |     |            | 8480 | 76.3 |
| Big Mountain           | eP | 28 06.0     |     |            | 9630 | 77.7 |
| Sparrevohn             | eP | 14.0        |     |            | 8790 | 79.1 |
| Castle Rock            | eP | 21.1        |     |            | 8920 | 80.3 |
| Berkely                | eP | 22.3D       |     |            | 8945 | 80.5 |
| San Francisco (Rincon) | eP | 22.4        |     |            | 8930 | 80.4 |
| Holy Cross             | eP | 23.4        |     |            | 8945 | 80.5 |
| Mt. Hamilton           | eP | 23.6D       |     |            | 8970 | 80.7 |
| Mt. Diablo             | eP | 23.9        |     |            | 8980 | 80.8 |
| Stone Canyon           | eP | 24.9        |     |            | 8970 | 80.9 |
| San Luis Dam           | 1P | 24.6D       | e   | 20.2       | 8990 | 80.9 |
| Priest                 | eP | 25.1D       |     |            | 8990 | 80.9 |
| Oroville               | 1P | 28.2        |     |            | 9090 | 81.8 |
| Jamestown              | eP | 28.8D       |     |            |      |      |
| Mts Sheep Creek        | eP | 29.0        |     |            | 9110 | 82.0 |
| Pasadena               | 1P | 29.0        | eS  | 38 00.0    | 9110 | 82.0 |
| Mineral                | eP | 29.7C       |     |            |      |      |
| Yakoutsk               | 1P | 31D         |     |            |      |      |
| Black Rapids           | 1P | 36.8        |     |            | 9300 | 83.7 |
| Tanana                 | 1P | 36.9        |     |            | 9300 | 83.5 |
| College                | 1P | 38.7        |     |            | 9355 | 84.2 |
| Pedro Dome             | eP | 39.0        |     |            | 9360 | 84.4 |
| Gilmore Creek          | eP | 39.0        |     |            | 9380 | 84.4 |
| Oulan Bator            | 1P | 39          |     |            |      |      |
| Tumwater               | 1P | 40.8        |     |            | 9345 | 84.1 |
| Bodajabo               | 1P | 45D         |     |            |      |      |
| Eureka                 | 1P | 47.8D       | i   | 31 00.9    | 9520 | 85.7 |
| Chittagong             | eP | 51          |     |            | 9530 | 85.8 |
| Blue M.                | eP | 52.4        | e   | 32 22.1    | 9645 | 86.8 |
| Shillong               | 1P | 53.6        |     |            | 9630 | 86.7 |
| Tucson                 | 1P | 55.5D       | e   | 31 11.0    | 9690 | 87.2 |
| Tonto Forest           | 1P | 56.8        | eS  | 38 50.     | 9710 | 87.4 |
| Spokane                | 1P | 58.3        |     |            | 9770 | 87.9 |
| Dugway                 | 1P | 59.0D       |     |            | 9800 | 88.2 |

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|                |                    |       |                   |                    |         |       |            |
|----------------|--------------------|-------|-------------------|--------------------|---------|-------|------------|
| Newport        | iP                 | 03 28 | 59.3              |                    |         | 9800  | 88.2       |
| Glen Canyon    | iP                 | 29    | 00.0              | e (eP)             | 03 31   | 12.8  | 9780 88.0  |
| Salt Lake City | eP                 |       | 00.2              | e                  | 29 05.4 |       | 9900 88.1  |
| Nordman        | iP                 |       | 00.4              |                    |         | 9830  | 88.5       |
| Tiksi          | iP                 |       | 04 <sup>D</sup>   |                    |         |       |            |
| Hungry Horse   | eP                 |       | 07.8              |                    |         | 10020 | 90.2       |
| Esen Boulak    | eP                 |       | 08                |                    |         |       |            |
| Butte          | eP                 |       | 09.0              |                    |         | 10030 | 90.3       |
| Uinta Basin    | eP                 |       | 10.5              | eS                 | 39 09   |       | 10070 90.6 |
| Bozeman SSS    | iP                 |       | 11.8              | e                  | 29 55.5 |       | 10090 90.8 |
| Flaming Gorge  | iP                 |       | 12.0              | 1                  | 30 10.0 |       | 10100 90.9 |
| Albuquerque    | iP                 |       | 14.0 <sup>D</sup> | 1                  | 11.0    |       | 10155 91.4 |
| Edmonton       | eP                 |       | 19.0              |                    |         | 10255 | 92.3       |
| Coppermine     | eP                 |       | 35.7 <sup>D</sup> |                    |         | 10720 | 96.5       |
| Wichita M.     | eP                 |       | 42.7              | ePP                | 33 50.8 |       | 10855 97.7 |
| Mould Bay      | eP                 |       | 45.0              |                    |         | 10930 | 98.4       |
| Penas          | PKP                | 34    | 43.2              |                    |         | 12630 | 113.7      |
| Frobisher      | PKP                |       | 44.0              |                    |         | 12720 | 115.4      |
| La Paz         | PKP                |       | 44.2              |                    |         | 12655 | 113.9      |
| Kirkenes       | iPKP               |       | 52.6              |                    |         | 13230 | 119.1      |
| Kevo           | ePKP               |       | 53                |                    |         | 13310 | 119.8      |
| Apatity        | iPKP               |       | 53.7              |                    |         |       |            |
| Sodankylä      | ePKP               |       | 56                |                    |         | 13520 | 121.7      |
| Kiruna         | iPKP               |       | 58.0              |                    |         |       |            |
| Oulu           | iPKP               | 35    | 00.1              |                    |         |       |            |
| Kajaani        | iPKP               |       | 00.8              |                    |         | 13755 | 123.8      |
| La Mourre      | eiPKP <sub>1</sub> |       | 01.1              |                    |         |       |            |
| Changalane     | PKP                |       | 04.0              |                    |         | 13755 | 123.8      |
| Uméa           | iPKP               |       | 05.0              | iSKP               | 37 24.8 |       |            |
| Tabriz         | e(PKP)             |       | 07                |                    |         |       |            |
| Nurmi jaerwi   | ePKP               |       | 08                |                    |         | 14255 | 127.4      |
| Skals tugen    | iPKP               |       | 09.2              | iSKP               | 34.4    |       |            |
| Uppsala        | iPKP               |       | 13.0              | iSKP               | 41.1    | 14455 | 130.1      |
| Bilawayo       | ePKP               |       | 15                | eSKP               | 43      | 14480 | 130.3      |
| Uddeholm       | iPKP               |       | 15.6              | iSKP               | 44.1    |       |            |
| Broken Hill    | ePKP <sub>1</sub>  |       | 16                | iSKP               | 55      | 14880 | 133.9      |
| Lillehammer    | iPKP               |       | 16.9              |                    |         | 14520 | 130.7      |
| Karoi          | iPKP <sub>1</sub>  |       | 18                | iSKP               | 48      | 14620 | 131.6      |
| Göteborg       | iPKP               |       | 20.1              | iSKP               | 51.5    |       |            |
| Nairobi        | PKP                |       | 21.0              |                    |         | 14745 | 132.7      |
| Niedzica       | ePKP               |       | 22                |                    |         |       |            |
| Karlskrona     | iPKP               |       | 24                | iSKP               | 53.4    |       |            |
| Pruhonice      | ePKP               |       | 27.4              |                    |         |       |            |
| Kasperské Hory | ePKP               |       | 28                |                    |         | 15590 | 140.3      |
| Oujgorod       | ePKP <sub>1</sub>  |       | 29                | epPKP <sub>1</sub> | 38 08   |       |            |
| Ciné           | iPKP               |       | 29                |                    |         |       |            |
| Collm          | ePKP               |       | 30                |                    |         | 15410 | 138.7      |
| Moxa           | ePKP               |       | 30.5              |                    |         | 15520 | 139.7      |
| Erlangen       | ePKP <sub>1</sub>  |       | 31.0              |                    |         |       |            |
| Bitare         | eiPKP              |       | 32.5              | 1                  | 29.9    |       |            |
| Bratislava     | eiPKP              |       | 33.5              |                    |         | 15510 | 139.6      |

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|                   |                    |       |         |    |       |      |       |       |
|-------------------|--------------------|-------|---------|----|-------|------|-------|-------|
| Stuttgart         | ePKP               | 03 35 | 35.2(C) | e  | 03 38 | 17.4 | 15680 | 142.1 |
| Welschbruch       | iPKP               |       | 35.9    |    |       |      |       |       |
| Strasbourg        | eiPKP              |       | 36      |    |       |      |       |       |
| Champ du Feu      | eiPKP <sub>1</sub> |       | 36.2    |    |       |      |       |       |
| Basel             | PKP                |       | 37.5    |    | 35    | 40   |       |       |
| Haudompré         | eiPKP <sub>1</sub> |       | 38.0    |    |       |      |       |       |
| Folinigre         | eiPKP <sub>1</sub> |       | 40.4    |    |       |      | 16055 | 144.5 |
| Sada Bandeira     | PKP                |       | 40.9    |    |       |      | 16010 | 144.1 |
| St. Sauveur       | eiPKP <sub>1</sub> |       | 41.0    |    |       |      | 16070 | 144.6 |
| Besançon          | eiPKP              |       | 41.1    | i  |       | 42.6 |       |       |
| Gorron            | eiPKP <sub>1</sub> |       | 42.0    |    |       |      | 16100 | 144.9 |
| Sommée Lormes     | eiPKP <sub>1</sub> |       | 42.2    |    |       |      | 16110 | 145.0 |
| St. Saulge        | eiPKP <sub>1</sub> |       | 42.8    |    |       |      | 16130 | 145.2 |
| Les Buteaux       | eiPKP <sub>1</sub> |       | 42.8    |    |       |      |       |       |
| Garchy            | iPKP               |       | 42.9D   |    |       |      |       |       |
| Le Pertre         | eiPKP <sub>1</sub> |       | 42.9    |    |       |      |       |       |
| Vouglans          | eiPKP              |       | 43.2    | ei |       | 45.5 |       |       |
| Roselend          | eiPKP              |       | 44.2    | ei |       | 45.5 |       |       |
| Toulx Ste Croix   | eiPKP <sub>1</sub> |       | 44.8    |    |       |      |       |       |
| Lanslevillard     | eiPKP              |       | 45.2    | i  |       | 47.0 |       |       |
| Monteynard        | eiPKP              |       | 47      |    |       |      |       |       |
| Clermont          | ePKP               |       | 48      | e  | 36    | 11.5 |       |       |
| Arcignac          | eiPKP <sub>1</sub> |       | 50.0    |    |       |      |       |       |
| La Frestale       | eiPKP <sub>1</sub> |       | 50.5    |    |       |      |       |       |
| St. Paul en Foret | eiPKP <sub>1</sub> |       | 50.6    |    |       |      |       |       |
| Le Pouchou        | eiPKP <sub>1</sub> |       | 50.8    |    |       |      |       |       |
| Lorgues           | eiPKP <sub>1</sub> |       | 51.6    |    |       |      |       |       |
| Bangué            | iPKP <sub>1</sub>  |       | 53.9    | i  | 37    | 31.9 |       |       |
| Ifrane            | iPKP               | 36    | 03      | ei | 36    | 47   | 17790 | 160.1 |
| Averroes          | PKP                |       | 03.5    | ei |       | 49.5 | 17830 | 160.5 |
| Tamanrasset       | ePKP               |       | 08      | e  | 40    | 57   |       |       |

Inscrit à Khôrog - Douchambé

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Région des Nouvelles Hébrides

13°6 S ; 171°3 E ; h = 631km ; H = 03h.36mm50.3s. (CGS)

M. = 5.7(Adélaïde) ; 4.2(CGS) ; 4.1(Uinta Basin) ; 3.9(Eureka) ;  
3.8(Tonto Forest) ; 3.5(Blue M.).

|                 |    |    |    |       |    |       |      |      |
|-----------------|----|----|----|-------|----|-------|------|------|
| Lonorore        | iP | 03 | 38 | 18.5C |    |       | 420  | 3.8  |
| Luganville      | iP |    |    | 20.3D | iS | 03 39 | 490  | 4.4  |
| Nouméa          | iP |    | 39 | 08.0D |    |       | 1090 | 9.8  |
| Brisbane        | iP |    | 41 | 02.3  |    |       | 2455 | 22.1 |
| Charters Towers | iP |    |    | 27.3  |    |       | 2755 | 24.8 |
| Toolangi        | eP |    | 42 | 33.0  |    |       | 3680 | 33.1 |
| Warramunga      | eP |    | 43 | 01    |    |       | 3990 | 35.9 |
| Adélaïde        | iP |    |    | 04.8C |    |       | 4030 | 36.3 |



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|               |       |             |        |       |
|---------------|-------|-------------|--------|-------|
| Kalgoorlie    | iP    | 03 44 41.1D |        |       |
| Woody         | P     | 48 05       | 9120   | 82° 1 |
| College       | eP    | 16.0        | 9345   | 64.1  |
| Eureka        | iP    | 25.7        | 9520   | 85.7  |
| Blue M.       | eP    | 29.6        | 9645   | 86.8  |
| Tonto Forest  | eP    | 34.1        | 9720   | 87.5  |
| Uinta Basin   | eP    | 40.0        | 10070  | 90.6  |
| Sommée Lormes | ePKP1 | 55 19.4     | 160 00 | 144.8 |
| St Saulge     | ePKP1 | 19.9        | 16110  | 145.0 |
| Les Biteaux   | ePKP1 | 20.2        |        |       |

IV. 8 janvier  
Région de la Nouvelle Bretagne

H = 06h22m46S M = 4.6 (Rabaul)

|                |    |          |    |          |
|----------------|----|----------|----|----------|
| Keravat        | iP | 06 23 06 | iS | 06 23 19 |
| Rabalanakafa   | eP | 06       |    |          |
| Wanliss Street | eP | 06.5     |    |          |
| Rabaul         | iP | 06.6     | iS | 22.0     |
| Warramunga     | eP | 27 58    |    |          |

V. 8 janvier  
Nouvelles Hébrides

17°7S, 168°1E h = 41km H = 12h21m09.1S (CGS)  
17°7S, 167°1E H = 12h21m10S (Nouméa)

Ressenti IV à Port Vila.

M = 4.7 (Nouméa), 4.4 (Tonto Forest).

|                 |       |             |     |          |      |     |
|-----------------|-------|-------------|-----|----------|------|-----|
| Port Vila       | iP    | 12 21 16.2C |     | 20       | 0.2  |     |
| Lonoore         | eIP   | 40.9        |     | 210      | 1.9  |     |
| Luganville      | iP    | 45.5D       |     | 270      | 2.4  |     |
| Nouméa          | iP    | 22 20.0C    | iS  | 12 23 13 | 530  | 4.8 |
| Charters Towers | eP    | 25 54       |     | 2310     | 20.8 |     |
| Canberra        | eP    | 26 27       |     | 27 10    | 24.4 |     |
| Warramunga      | eP    | 27 32       |     | 3555     | 32.0 |     |
| South Pole      | iP    | 32 31.8     |     | 8045     | 72.4 |     |
| Eureka          | eP    | 34 0 98     |     | 10080    | 9.7  |     |
| Tonto Forest    | eP    | 17.8        |     | 10270    | 32.4 |     |
| Bangu           | iPKP1 | 40 50.7     | iPP | 44 25.0  |      |     |

VI. 8 janvier  
Région des îles Tonga

22°9S, 175°3W h = 33km H = 13h10m53S (CGS)

M = 4.7 (Wichita M), 4.6 (CGS, Tonto Forest), 4.5 (Eureka),  
4.4 (Blue M, Uinta Basin)

|                 |    |            |  |      |      |
|-----------------|----|------------|--|------|------|
| Charters Towers | iP | 13 08 52.3 |  | 3990 | 35.8 |
| Warramunga      | eP | 10 20.5    |  | 5200 | 46.8 |
| South Pole      | eP | 12 46.7    |  | 7480 | 67.3 |
| Woody           | P  | 13 56      |  | 8780 | 79.0 |
| Jamestown       | eP | 58.0       |  | 8830 | 79.5 |
| Eureka          | iP | 14 18.1    |  | 9245 | 83.2 |
| Tonto Forest    | eP | 18.8       |  | 9245 | 83.2 |
| Glen Canyon     | eP | 26.0       |  | 9390 | 84.5 |
| Dugway          | eP | 26.7       |  | 9500 | 85.5 |

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|               |         |            |                |         |      |
|---------------|---------|------------|----------------|---------|------|
| Blue M.       | ep      | 13 13 30.3 |                | 9510    | 85.6 |
| Albuquerque   | ep      | 34.0       |                | 9670    | 87.0 |
| Uinta Basin   | ep      | 33.9       |                | 9745    | 87.7 |
| College       | ep      | 50.0       |                | 10000   | 90.0 |
| Gilmore Creek | ep      | 14 51.5    |                | 10020   | 90.2 |
| Wichita M.    | ep      | 15 02.0    |                | 10230   | 92.6 |
| Eutare        | ePKP    | 21 29.8    |                |         |      |
| Niedzica      | ePKP1   | 44         | ePKP2 13 22 02 |         |      |
| Bangui        | i(PKP1) | 22 10.1    | i(PP)          | 26 34.0 |      |

VII. 8 janvier

Maroc. Explosi on de 15.5 tonnes

32° 52' N, 6° 38' W H = 13<sup>h</sup> 42<sup>m</sup> 40<sup>s</sup> (Rabat)

|          |    |            |     |            |     |     |
|----------|----|------------|-----|------------|-----|-----|
| Averroes | iP | 13 42 55.5 | e   | 13 43 06.5 | 85  | 0.8 |
| Ifrane   | ep | 43 06      | eSb | 28         | 160 | 1.5 |

VIII. 8 janvier

Région Nord Ouest des îles Kouriles

49° 1' N, 151° 35' E h = 284km H = 13<sup>h</sup> 50<sup>m</sup> 42.0<sup>s</sup> (CGS)

48° 7' N, 151° 9' E h = 297km H = 13<sup>h</sup> 50<sup>m</sup> 40<sup>s</sup> (URSS)

M = 5.6 (College), 5.5 (Frobisher), 5.2 (Newport, New Delhi, Bozeman SSS, Digway, Uinta Basin), 5.0 (Wichita M, CGS), 4.9 (Coppermine, Oroville, Berkeley, Albuquerque), 4.8 (Shillong, Blue M), 4.7 (Tonto Forest, NurmiJaervi), 4.4 (Kajaani)

|                   |     |             |    |            |      |      |
|-------------------|-----|-------------|----|------------|------|------|
| Severo Kourilsk   | iP  | 13 51 41.5D | eS | 13 52 28.6 |      |      |
| Petropavlovsk     | iP  | 52 12C      | eS | 53 23      |      |      |
| Youjno Sakhalinsk | iP  | 16          | iS | 30         |      |      |
| Magadan           | P   | 53 07       | S  | 55 07      |      |      |
| Vladivostok       | ep  | 58          |    |            |      |      |
| Matsushiro        | iP  | 54 09.6     |    |            |      |      |
| Yakoutsk          | iP  | 33.3        |    |            |      |      |
| Wakaura           | ep  | 45.3        |    |            | 2120 | 19.1 |
| Oishiyama         | ep  | 46.0        |    |            | 2120 | 19.1 |
| Shiraki           | ep  | 54.1        |    |            | 2220 | 20.0 |
| Adak              | epe | 58.5        |    |            | 2280 | 20.5 |
| Tiksi             | iP  | 55 40C      |    |            |      |      |
| Sarrevohn         | iP  | 56 31.8     |    |            | 3520 | 31.7 |
| Big M.            | iP  | 43.8        |    |            | 3570 | 32.1 |
| Barrow            | iP  | 47.3        |    |            | 3610 | 32.5 |
| Tanana            | iP  | 56.5        |    |            | 3710 | 33.4 |
| College           | iP  | 57 11.0     |    |            | 3800 | 35.1 |
| Pedro Dome        | iP  | 12.0        |    |            | 3910 | 35.2 |
| Gilmore Creek     | iP  | 12.1        |    |            | 3920 | 35.3 |
| Mt Sheep Creek    | iP  | 15.0        |    |            | 3955 | 35.6 |
| Black Rapids      | ep  | 18.2        |    |            | 4010 | 36.1 |
| Mould Bay         | ep  | 58 13.8     |    |            | 4755 | 42.8 |
| Semipalatinsk     | P   | 26          | eS | 14 04 37.2 |      |      |
| Coppermine        | ep  | 45.0        |    |            | 5230 | 47.1 |
| Resolute          | iP  | 59 01.4     |    |            | 5445 | 49.0 |
| Talgar            | ep  | 09          |    |            |      |      |

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|                 |      |       |       |     |            |       |       |
|-----------------|------|-------|-------|-----|------------|-------|-------|
| Shillong        | 1P   | 13 59 | 19.7  |     |            | 5700  | 51.3  |
| Sverdlovsk      | 1P   |       | 20C   |     |            |       |       |
| Kevo            | 1P   |       | 44.1  |     |            | 6090  | 54.8  |
| Edmonton        | 1P   |       | 50.0  |     |            | 6180  | 55.6  |
| Sodankylae      | 1P   |       | 57.2D |     |            | 6300  | 56.7  |
| Nordman         | 1P   |       | 57.3  |     |            | 6290  | 56.6  |
| Garm            | eP   |       | 58    |     |            |       |       |
| Newport         | 1P   |       | 58.1  |     |            | 6300  | 56.7  |
| Kiruna          | 1P   | 14 00 | 04.9  |     |            |       |       |
| Hungry Horse    | eP   |       | 0.96  | e   | 14 00 29.1 | 6480  | 58.3  |
| Oulu            | eP   |       | 10    |     |            |       |       |
| Kajaani         | 1P   |       | 12.5  |     |            | 6545  | 58.9  |
| Blue M.         | 1P   |       | 12.8C |     |            | 6530  | 58.8  |
| New Delhi       | eP   |       | 13.0  |     |            | 6530  | 58.8  |
| Mineral         | eP   |       | 15.2C |     |            |       |       |
| Croville        | 1P   |       | 18.3  |     |            | 6645  | 59.8  |
| Berkeley        | eP   |       | 24.0D |     |            | 6720  | 60.5  |
| Butte           | eP   |       | 25.3  |     |            | 6730  | 60.6  |
| Umeå            | 1P   |       | 27.3  |     |            |       |       |
| Mt Hamilton     | eP   |       | 28.5C |     |            | 6800  | 61.2  |
| Bozeman         | 1P   |       | 30.4  | e   | 01 32.5    | 6810  | 61.3  |
| Jamestown       | eP   |       | 30.9  |     |            | 6830  | 61.5  |
| San Luis Dam    | eP   |       | 31.5  |     |            | 6845  | 61.6  |
| Nurmijaervi     | 1P   |       | 37.2  |     |            | 6955  | 62.6  |
| Priest          | eP   |       | 38.2  |     |            | 6955  | 62.6  |
| Frobisher       | 1P   |       | 40.6C |     |            | 7030  | 63.3  |
| Eureka          | 1P   |       | 41.7C | i   | 45.9       | 7010  | 63.1  |
| Dugway          | 1P   |       | 49.4C |     |            | 7155  | 64.4  |
| Quetta          | eP   |       | 50.7C |     |            | 7155  | 64.4  |
| Pasadena        | 1P   |       | 56    |     |            | 7270  | 65.4  |
| Lillehammer     | 1P   |       | 57.9  |     |            | 7300  | 65.7  |
| Uddeholm        | 1P   |       | 58.6  |     |            |       |       |
| Winta Basin     | 1P   | 01    | 01.1  | ePP | 02 05.6    | 7345  | 66.1  |
| Glen Canyon     | 1P   |       | 08.0  |     |            | 7480  | 67.3  |
| Ton to Forest   | eP   |       | 21.4  |     |            | 7710  | 69.4  |
| Bakuriani       | eP   |       | 23.6  |     |            |       |       |
| Tucson          | eP   |       | 31.5  |     |            | 7900  | 71.1  |
| Albuquerque     | 1P   |       | 35.0  |     |            | 7955  | 71.6  |
| Niedzica        | eP   |       | 44    |     |            |       |       |
| Collm           | eP   |       | 47    | e   | 54         | 8210  | 73.9  |
| Moxa            | eP   |       | 53    |     |            | 8310  | 74.8  |
| Kaspe rské Hory | eP   |       | 58    |     |            |       |       |
| Wichita M.      | eP   |       | 59.7  |     |            | 8455  | 76.1  |
| Brébeuf         | 1P   | 02    | 10.8D |     |            | 8670  | 78.0  |
| Archignac       | eP   |       | 37.2  |     |            |       |       |
| La Fresta       | eP   |       | 38D   |     |            |       |       |
| Le pouchou      | eP   |       | 38.6  |     |            |       |       |
| Penas           | PKP  | 09    | 16.2  | e   | 0 929.0    | 14890 | 134.0 |
| South pole      | ePKP |       | 25.3  |     |            | 15430 | 138.9 |

insc it à Garchy, Novo Lazarevskaya.

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IX. 8 janvier  
Données discordantes

M = 5.1 (Wellington)

|            |    |          |    |          |
|------------|----|----------|----|----------|
| Karapiro   | eP | 15 38 00 | eS | 15 40 10 |
| Wellington | iP | 13.8     | iS | 38 27.0  |
| Manowai    | eP | 39 23    | eS | 40 30    |
| Onerahi    | eP | 38       |    |          |
| Brisbane   | e  | 43 03    |    |          |
| Warramunga | eP | 45 28.5  |    |          |
| Byrd       | eP | 46 13.2  |    |          |
| South pole | eP | 38.2     |    |          |

X. 8 janvier  
Région de la Nouvelle Bretagne

H = 16h 03m 03s M = 4.2 (Rabaul)

|                |    |             |    |          |
|----------------|----|-------------|----|----------|
| Rabaul         | iP | 16 09 34.5D | eS | 16 09 58 |
| Rabalanakaia   | iP | 34.8D       |    |          |
| Wanliss Street | iP | 09 35.0D    |    |          |
| Keravat        | eP | 35.5D       | iS | 10 01    |

XI. 8 janvier  
Nouvelles Hébrides (île Espiritu Santo)

15°0S, 167°7E h = 100km H = 16h 56m 24s (Nouméa)  
M = 4.0 (Nouméa)

|            |     |             |    |          |
|------------|-----|-------------|----|----------|
| Luganville | iP  | 16 58 44.0D | iS | 16 57 00 |
| Lonorre    | iP  | 48.0D       | iS | 10       |
| Port Vila  | eIP | 57 08.9     | iS | 47       |
| Nouméa     | iP  | 58 12.2C    | iS | 59 34    |

XII. 8 janvier  
Iles Salomon

5°1S, 154°1E h = 113km H = 17h 24m 11.0s (CGS)  
M = 5.9 (Port Moresby), 5.6 (Rabaul), 5.1 (CGS, Shillong)

|                 |    |            |    |            |      |      |
|-----------------|----|------------|----|------------|------|------|
| Rabalanakaia    | iP | 17 24 45.4 |    | 230        | 2.1  |      |
| Rabaul          | iP | 46.0D      | iS | 17 25 20.0 | 230  | 2.1  |
| Wanliss Street  | iP | 46.0       |    | 230        | 2.1  |      |
| Sulphur         | eP | 46D        |    | 230        | 2.1  |      |
| Keravat         | iP | 47D        |    | 245        | 2.2  |      |
| Honiara         | iP | 25(55.5)   | eS | 27 17      | 800  | 7.2  |
| Port Moresby    | iP | 26 07.9D   | eS | 36         | 900  | 8.1  |
| Charters Towers | iP | 28 00.5    |    | 1855       | 16.7 |      |
| Brisbane        | iP | 58.3       |    | 2470       | 22.2 |      |
| Warramunga      | eP | 29 17      |    | 260        | 24.2 |      |
| Kalgoorlie      | iP | 31 33.8C   |    |            |      |      |
| Shillong        | iP | 34 58.6    |    | 7510       | 67.6 |      |
| College         | eP | 36 18.0    | e  | 36 44.0    | 9080 | 81.7 |
| Gilmore Creek   | eP | 19.0       |    | 9100       | 81.9 |      |
| South pde       | eP | 33.9       |    | 9430       | 84.9 |      |
| Quetta          | eP | 37 00.0    |    | 10010      | 90.1 |      |

XIII. 8 janvier  
Région Nord du Chili18° 6'S, 69° 9'W h = 116<sup>km</sup> H = 18<sup>h</sup>44<sup>mn</sup>24.5<sup>s</sup> (CGS)18° 9'S, 73° 4'W H = 18<sup>h</sup>44<sup>mn</sup>11<sup>s</sup> (URSS)

## Res senti à Arequipa

M = 6.0 (Caracas), 5.9 (San Juan), 5.8 (Cumberland Pl, Edmonton), 5.4 (CGS, Wichita M, Dugway), 5.2 (Tonto Forest, Berkeley, Blue M), 5.1 (Albuquerque), 5.0 (Golden, Uinta Basin, Eureka).

|                   |     |            |       |            |      |      |
|-------------------|-----|------------|-------|------------|------|------|
| Arequipa          | IP  | 18 45 06.9 |       |            | 290  | 2.6  |
| Penas             | IP  | 09.0D      | eS    | 18 45 37   | 300  | 2.7  |
| La Paz            | IP  | 0 9.5D     | S     | 38.0       | 300  | 2.7  |
| Cochabamba        | IP  | 23.2D      |       |            |      |      |
| Antofagasta       | eP  | 41.1D      | iS    | 46 38      |      |      |
| Huancayo          | eP  | 46 23.6    | iS    | 48 15.0    | 920  | 8.3  |
| Nana              | IP  | 36.5       | iS    | 20.0       | 1030 | 9.3  |
| Peldehue          | ePP | 47 44.5    | eS    | 50 24      | 1610 | 14.5 |
| Santiago          | eP  | 47.5       |       |            | 1645 | 14.8 |
| Quito             | IP  | 48 53.8D   | iS    | 52 37.8    | 2230 | 20.1 |
| Valdivia          | eP  | 49 06      | eS    | 53 06      |      |      |
| Caracas           | IP  | 50 13.0C   | eI    | 51 00      | 3220 | 29.0 |
| Trinidad          | eP  | 23.8       | i     | 56 30.0    | 3355 | 30.2 |
| San Juan          | IP  | 51 17.7    | iS    | 46.0       | 4070 | 36.6 |
| Tacubaya          | eP  | 52 54      |       |            |      |      |
| Nat. Uni. Mexico  | IP  | 54         | eS    | 59 40      |      |      |
| Presa Infiernillo | IP  | 55D        |       |            |      |      |
| Oak Ridge         | eP  | 53 50.7    |       |            | 6210 | 55.9 |
| Cumberland pl     | eP  | 50.7       |       |            | 6210 | 55.9 |
| Morgantown        | IP  | 54 11.9D   |       |            | 6510 | 56.6 |
| Wichita M.        | eP  | 17.2       | eS    | 19 02 31.4 | 6620 | 59.6 |
| Tulsa             | IP  | 18.0       |       |            | 6610 | 59.5 |
| M'bour            | IP  | 31         | iS    | 44         |      |      |
| Lawrence          | IP  | 33.4       |       |            | 6880 | 61.9 |
| Manhattan         | eP  | 38.0       |       |            | 6955 | 62.6 |
| Albuquerque       | IP  | 45.0D      | e     | 18 55 12.0 | 7055 | 63.5 |
| Ottawa            | eP  | 45.0       |       |            | 7100 | 63.9 |
| Brébeuf           | IP  | 45.3       |       |            | 7090 | 63.8 |
| Tucson            | eP  | 47.0       | e     | 19 03 10.0 | 7100 | 63.9 |
| Tonto Forest      | eP  | 59.7       | ePP   | 18 55 27.5 | 7300 | 65.7 |
| Golden            | eP  | 55 05.5    |       |            | 7410 | 66.7 |
| Lamto             | P   | 15.5       |       |            | 7610 | 68.5 |
| Uinta Basin       | IP  | 21.7       | eScS  | 19 05 08.5 | 7690 | 69.2 |
| Pasadena          | IP  | 25.0       | i(SP) | 18 55 56.0 | 7745 | 69.7 |
| Novo Lazarevskaya | IP  | 26.5D      | iS    | 19 04 30.5 |      |      |
| Dugway            | IP  | 31.8       | eL    | 18 56 00.2 | 7870 | 70.8 |
| South P de        | IP  | 37.1       | eS    | 19 04 50.5 | 7955 | 71.6 |
| Eureka            | IP  | 39.0       |       |            | 8000 | 72.0 |
| Priest            | eP  | 42.4D      |       |            | 8055 | 72.5 |
| San Luis Dam      | IP  | 48.2       | i     | 18 56 17.0 | 8170 | 73.6 |
| Mt Hamilton       | eP  | 50.8D      |       |            | 8210 | 73.9 |
| Lome              | eP  | 52         | ePP   | 22         |      |      |
| Berkeley          | eP  | 54.8C      | SP    | 57 38.8    | 8270 | 74.6 |

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|                 |       |       |       |         |         |       |           |
|-----------------|-------|-------|-------|---------|---------|-------|-----------|
| Bitte           | eP    | 18 55 | 5 5.7 |         |         | 8330  | 75.0      |
| Oroville        | iP    |       | 57.8  |         |         | 8355  | 75.2      |
| Mineral         | eP    | 56    | 00.2C |         |         |       |           |
| Blue M.         | iP    |       | 04.2  |         |         | 8490  | 76.4      |
| Hungry Horse    | eP    |       | 09.4  | e       | 18 56   | 9.5   | 8600 77.4 |
| Newport         | eP    |       | 15.0  |         |         | 8745  | 78.7      |
| Averroes        | P     |       | 16.5  | e       |         | 48.0  | 8755 78.3 |
| Nordman         | eP    |       | 17.0  |         |         | 8770  | 78.9      |
| Sa da Bandeira  | iP    |       | 20.2  | iS      | 19 06   | 10.8  | 8810 79.3 |
| Ifrane          | P     |       | 25.5  |         |         | 8955  | 80.6      |
| Edmonton        | iP    |       | 26.0  |         |         | 8970  | 80.7      |
| Frobisher       | eP    |       | 31.7D |         |         | 9110  | 82.0      |
| Syowa           | i,P)  |       | 35.9  | i       | 18 57   | 28.3  | 8830 79.5 |
| Malaga          | iP    |       | 37    | iS      |         | 41    |           |
| Tamanrasset     | iP    |       | 45C   |         |         |       |           |
| Toledo          | iP    |       | 46.4  | iS      | 19 07   | 04.4  | 9390 84.5 |
| Grahamstone     | e     | 57    | 00    |         |         |       |           |
| Mawson          | iP    |       | 02.7  |         |         |       |           |
| La Frestale     | eP    |       | 12.0  |         |         |       |           |
| Le Pouchou      | eP    |       | 12.6  |         |         |       |           |
| Archignac       | eIP   |       | 13.5  |         |         |       |           |
| Coppermine      | eP    |       | 19.0  |         |         | 10245 | 82.2      |
| Bulawayo        | eP    |       | 20    |         |         |       |           |
| St Saulge       | eP    |       | 22.5  |         |         | 10300 | 92.7      |
| Roselend        | eP    |       | 23    | ei      | 18 57   | 36.1  |           |
| Sommée Lormes   | eP    |       | 24.2  |         |         | 10320 | 92.9      |
| Resolute        | eP    |       | 26.0  |         |         | 10490 | 94.4      |
| Les Bateaux     | eP    |       | 28.3  |         |         |       |           |
| Karoi           | eP    |       | 30    | eSKS    | 19 01   | 12    |           |
| Lanslevillard   | eP    |       | 33    | ePP     | 18 58   | 02    |           |
| Mould Bay       | ePP   |       | 54.3C |         |         | 10245 | 92.2      |
| College         | eP    | 18    | 04.5  |         |         | 11290 | 101.6     |
| Bitare          | ePP   | 19 01 | 55    |         |         |       |           |
| Tiksi           | iPKP1 | 03    | 13C   |         |         |       |           |
| Sverdlovsk      | ePKP1 |       | 16    |         |         |       |           |
| Chiraz          | eiPKP |       | 17    |         |         | 14120 | 127.1     |
| Charters Towers | iPKP  |       | 20.6  |         |         |       |           |
| Addis Ababa     | iPP   |       | 20.7  |         |         |       |           |
| Mundaring       | ePKP1 |       | 24    |         |         | 14380 | 129.4     |
| Jérusalem       | ePP   |       | 30    | e       | 19 12   | 00    |           |
| Ksara           | ePP   |       | 31    | i       |         | 14 05 |           |
| Rabaul          | ePKP  |       | 32D   |         |         | 14755 | 132.8     |
| Bodajbo         | iPKP1 |       | 34    |         |         |       |           |
| Garm            | ePKP1 |       | 38    |         |         |       |           |
| Quetta          | ePKP  |       | 41.2D |         |         | 15480 | 139.3     |
| Semipalatinsk   | ePKP1 |       | 42    |         |         |       |           |
| Talgar          | ePKP1 |       | 44    |         |         |       |           |
| Guam            | PKP   |       | 51.0  |         |         | 16245 | 146.2     |
| Irkoutsk        | ePKP1 |       | 54    |         |         |       |           |
| New Delhi       | PKP   |       | 57    |         |         | 16480 | 148.3     |
| Canberra        | ePP   |       | 57    | eSKS    | 09 7    |       |           |
| Mt Tsukuba      | PKP   | 04    | 00.3  | e(SPKP) | 04 30.9 |       |           |
|                 |       |       |       |         |         | 16470 | 148.2     |

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|             |       |          |       |       |
|-------------|-------|----------|-------|-------|
| Vladivostok | ePKP2 | 19 04 02 |       |       |
| Matsushiro  | PKP   | 03       |       |       |
| Kyosumi     | PKP   | 04.4     | 16510 | 148.6 |
| Shiraki     | (PKP) | 09.9     | 16045 | 144.4 |
| Shillong    | PKP   | 15.0     | 17980 | 161.8 |
| Goris       | ePP   | 32       |       |       |
| Tabriz      | ePP   | 33       |       |       |
| Tachkent    | e(PP) | 28C      |       |       |

Inscrit à Pavia, Strasbourg, Rabat, Istanbul Uti,  
Uméa, Kevo, Nurmijaervi, Trieste, Hermanus.

XIV. 8 janvier  
Sud de la Turquie

36°9'N, 32°2'E

H = 18h 45<sup>mn</sup> 50<sup>s</sup> (BCIS)

|             |     |            |     |            |      |      |
|-------------|-----|------------|-----|------------|------|------|
| Ciné        | iP  | 18 46 42.0 | 11  | 18 46 42.2 | 370  | 3.3  |
| Ksara       | iPn | 56         | 18n | 47 45      | 480  | 4.3  |
| Jerusalem   | iP  | 47 12.2    | eS  | 48 13      | 630  | 5.7  |
| Moxa        | eP  | 50 27.5    |     |            | 2240 | 20.2 |
| Nurmijaervi | iP  | 51 10.2    |     |            | 2685 | 24.1 |
| Kajaani     | eP  | 37         |     |            | 3045 | 27.4 |

XV. 8 janvier  
Crete médiane de l'océan Atlantique

8°2'N ; 38°2'W ; h = 33km ; H = 20h.22<sup>mn</sup>15.6<sup>s</sup>. (CGS)  
8°1'N ; 39°0'W ; H = 20h.22<sup>mn</sup>09.8<sup>s</sup>. (URSS)

M. = 5.9 (Bensberg - København); 5.8 (Bugway - Sanae); 5 3/4 (Golden);  
5.6 (Strasbourg - Godhavn); 5.6 (Berkeley - Uppsala - Kiruna - Wichita M.);  
5.4 (CGS - Moxa - Mould Bay - Eureka - Albuquerque); 5.3 (Addis Ababa -  
Nurmijaervi); 5.2 (Golden); 5.0 (Uinta Basin); 4.9 (Blue M. College - Arequipa);  
4.8 (Cumberland Pl.); 4.7 (Tonto Forest); 4.5 (Penas).

|               |    |                      |     |          |      |      |
|---------------|----|----------------------|-----|----------|------|------|
| M' Bour       | iP | 20 27 05             | iS  | 20 31 01 | 2410 | 21.7 |
| Trinidad      | iP | 24.2                 | 1   | 33 22.0  | 2555 | 23.0 |
| Caracas       | e  | 28 31.0 <sup>D</sup> | eS  | 00       | 3155 | 28.4 |
| Ponta Delgada | P  | 39.2                 | LR  | 36 34    | 3505 | 31.5 |
| Lamto         | P  | 47.5                 |     |          | 3670 | 33.0 |
| Bogota        | iP | 29 17.0              | eS  | 34 36.0  | 3980 | 35.8 |
| Cochabamba    | P  | 31.2                 |     |          | 4170 | 37.5 |
| Averroes      | P  | 33                   | M   | 29 40    | 4210 | 37.9 |
| Rabat         | eP | 35                   | LM  | 40 --    | 4300 | 38.7 |
| La Paz        | P  | 36.4                 | S   | 35 43.0  | 4270 | 38.4 |
| Penas         | P  | 37.9 <sup>C</sup>    | S   | 41.8     | 4280 | 38.5 |
| Lomé          | eP | 38                   | eS  | 46       | 4350 | 39.1 |
| Ifrane        | P  | 47.0                 |     |          | 4400 | 39.6 |
| Lisboa        | P  | 51.3                 | PPP | 31 54.2  | 4450 | 40.1 |
| Arequipa      | iP | 59.3                 |     |          | 4556 | 41.0 |
| Quito         | P  | 30 00.0 <sup>C</sup> | S   | 36 16    | 4550 | 40.9 |
| Malaga        | iP | 06                   | iS  | 26       | 4645 | 41.8 |
| Huancayo      | eP | 06.5                 |     |          | 4670 | 42.0 |

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|                   |      |        |                   |     |       |      |      |      |
|-------------------|------|--------|-------------------|-----|-------|------|------|------|
| Porto             | iP   | 20 30  | 07.0 <sup>D</sup> |     | 20 35 | 57.0 | 4670 | 42.0 |
| Almería           | iP   |        | 17                | eS  | 38    | 49   | 4800 | 43.2 |
| Toledo            | iP   |        | 22.5              | iS  |       | 59.5 | 4880 | 43.9 |
| Tamanrasset       | iP   |        | 26.0              |     |       |      | 4930 | 44.4 |
| Antofagasta       | eP   |        | 29                | eS  | 37    | 05   | 4955 | 44.6 |
| Alicante          | eP   |        | 29.5              |     |       |      | 5105 | 46.0 |
| Chapel Hill       | i(P) |        | 48.8              |     |       |      | 5145 | 46.3 |
| Sétif             | iP   |        | 51.5              |     |       |      | 5385 | 48.5 |
| Tortosa           | eP   |        | 54                |     |       |      | 5150 | 47.3 |
| Brébeuf           | iP   |        | 58.5 <sup>D</sup> |     |       |      | 5345 | 48.1 |
| Morganatown       | iP   | 31     | 01.6 <sup>D</sup> |     |       |      | 5410 | 48.7 |
| Ottawa            | eP   |        | 07                |     |       |      | 5465 | 49.2 |
| La Frestale       | eiP  |        | 07.6              |     |       |      | 5525 | 49.7 |
| Le Pouchou        | eiP  |        | 08.2              |     |       |      | 5535 | 49.8 |
| Archignac         | eiP  |        | 10.2              |     |       |      | 5565 | 50.1 |
| Le Pertre         | eiP  |        | 15.3              |     |       |      | 5625 | 50.6 |
| Oak Ridge         | iP   |        | 16.1              |     |       |      | 5580 | 50.2 |
| Gorron            | eiP  |        | 17.5              |     |       |      | 5670 | 51.0 |
| Cumberland Pl.    | eP   |        | 17.9              |     |       |      | 5689 | 51.1 |
| Peldehue          | eP   |        | 18                | eS  | 38    | 38   | 5710 | 51.4 |
| Toulx Ste Croix   | eiP  |        | 20.4              |     |       |      | 5705 | 51.3 |
| Folinière         | eiP  |        | 20.4              |     |       |      | 5710 | 51.4 |
| St. Sauveur       | eiP  |        | 21.2              |     |       |      | 5720 | 51.5 |
| Clermont          | eP   |        | 22.5              | L   | 43-21 | 30   | 5730 | 51.6 |
| Santiago          | eP   |        | 23.5              |     |       |      | 5730 | 51.6 |
| Schefferville     | eP   |        | 26                |     |       |      | 5755 | 51.8 |
| Garchy            | eP   |        | 28.3 <sup>C</sup> |     |       |      | 5820 | 52.4 |
| St. Saulge        | eiP  |        | 28.8              |     |       |      | 5845 | 52.6 |
| La Mourre         | eiP  | 31.5-- |                   |     |       |      | 5825 | 52.4 |
| Lorgues           | eiP  | 31.5-- |                   |     |       |      | 5815 | 52.4 |
| Les Buteaux       | eiP  | 31     | 30.6              |     |       |      | 5869 | 52.7 |
| Sommée Lormes     | eiP  |        | 31.0              |     |       |      | 5870 | 52.8 |
| St. Paul en Foret | eiP  |        | 31.5              |     |       |      | 5845 | 52.6 |
| Monteynard        | eP   |        | 32                |     |       |      | 5855 | 52.7 |
| Sudbury           | P    |        | 34                |     |       |      |      |      |
| Vouglans          | eiP  |        | 35.5              | ei  | 31    | 50.2 | 5930 | 53.4 |
| Roselend          | eiP  |        | 37.6              |     |       |      | 5955 | 53.6 |
| Lanslevillard     | eiP  |        | 38.9              | ei  |       | 46.2 | 5955 | 53.6 |
| Haudompré         | eiP  |        | 43.6              |     |       |      | 6070 | 54.6 |
| Basel             | P    |        | 46                |     |       |      | 6125 | 55.1 |
| Champ du Feu      | eiP  |        | 48.8              |     |       |      | 6150 | 55.4 |
| Strasbourg        | eP   |        | 52                | eiS | 39    | 42   | 6200 | 55.8 |
| Sada Bandeira     | iP   |        | 53.6              | iS  |       | 45.2 | 6245 | 56.2 |
| Bühlerhöhe        | eP   |        | 54                |     |       |      | 6230 | 56.1 |
| Banguï            | eP   |        | 54.1              | iPP | 34    | 04.1 | 6280 | 56.5 |
| Karlsruhe         | eP   |        | 57                |     |       |      | 6270 | 56.4 |
| Bensberg          | eiP  |        | 58.2              | LR  | 48    | 20   | 6300 | 56.7 |
| Stuttgart         | eP   |        | 58.7              |     |       |      | 6300 | 56.7 |
| Great Whale River | eP   |        | 59                |     |       |      | 6270 | 56.4 |
| Fürstentfeldbruck | iP   | 32     | 04                | e   | 34    | 05   | 6400 | 57.6 |



|                 |      |       |                   |      |           |      |      |
|-----------------|------|-------|-------------------|------|-----------|------|------|
| Trieste         | 1P   | 20 32 | 08.7              | 1S   | 20 40 12  | 6455 | 58.1 |
| Erlangen        | eP   |       | 08.9 <sup>D</sup> | e    | 33 26.7   | 6475 | 58.3 |
| Ljubljana       | e1P  |       | 13                |      |           | 6525 | 58.7 |
| Moxa            | eP   |       | 13                | eS   | 40 24     | 6555 | 59.0 |
| Kasperské Hory  | e1P  |       | 16.5              |      |           | 6600 | 59.4 |
| Tulsa           | 1P   |       | 16.5 <sup>D</sup> |      |           | 6570 | 59.1 |
| Lawrence        | eP   |       | 17.0              |      |           | 6600 | 59.4 |
| Akureyri        | 1P   |       | 18.0              |      |           | 6565 | 59.1 |
| Wien            | e P  |       | 19                |      |           | 6745 | 60.7 |
| Frobisher       | eP   |       | 19.8 <sup>C</sup> |      |           | 6610 | 59.5 |
| Collm           | 1P   |       | 21 <sup>C</sup>   | e    | 41.0--    | 6680 | 60.1 |
| Pruhonice       | e1P  |       | 23                | eS   | 40 47     | 6710 | 60.4 |
| Wien Kobenzl    | eP   |       | 25.0 <sup>D</sup> |      |           | 6745 | 60.7 |
| Manhattan       | eP   |       | 25.0              |      |           | 6720 | 60.5 |
| Wichita M.      | eP   |       | 28.4              | ePP  | 34 48.2   | 6790 | 61.1 |
| Bratislava      | 1P   |       | 30.9              | i    | 32 53.4   | 6800 | 61.2 |
| Nat.Univ.Mexico | e(P) |       | 42                | e(S) | 40 44     | 6665 | 60.0 |
| Srobarova       | e1P  |       | 33                |      |           | 6870 | 61.8 |
| Köbenhavn       | 1P   |       | 34.5              |      |           | 6870 | 61.8 |
| Raciborz        | eP   |       | (35)              |      |           | 6945 | 62.5 |
| Gödhavn         | 1P   |       | 35.5              |      |           | 6870 | 61.8 |
| Göteborg        | 1P   |       | 39.0              |      |           | 6955 | 62.6 |
| Kongsberg       | 1P   |       | 40.8              |      |           | 6970 | 62.7 |
| Karlskrona      | e P  |       | 45.9              |      |           | 7065 | 63.6 |
| Krakow          | eP   |       | 48 <sup>C</sup>   | eS   | 41 29     | 7065 | 63.6 |
| Niedzica        | e1P  |       | 47                |      |           | 7065 | 63.6 |
| Lillehammer     | 1P   |       | 49.1              |      |           | 7110 | 64.0 |
| Oujgorod        | eP   |       | 50                |      |           | 7175 | 64.6 |
| Uddeholm        | 1P   |       | 50.9              |      |           | 7175 | 64.6 |
| Fort Churchill  | eP   |       | 57.1 <sup>D</sup> |      |           | 7310 | 65.8 |
| Skalstugan      | 1P   | 33    | 00.2              |      |           | 7320 | 65.9 |
| Ciné            | 1P   |       | 03                | i    | 33 24     | 7365 | 66.3 |
| Uppsala         | 1P   |       | 03.2              | 1S   | 41 53     | 7370 | 66.3 |
| Campulung       | (P)  |       | 06.2              |      |           | 7275 | 65.5 |
| Lvov            | e(P) |       | 09.5              | M    | 21 00.1-- | 7335 | 66.0 |
| Istanbul Kand   | 1P   |       | 11.1              |      |           | 7510 | 67.6 |
| Golden          | eP   |       | 13.5              |      |           | 7480 | 67.3 |
| Flitz Flon      | eP   |       | 14                |      |           |      |      |
| Albuquerque     | eP   |       | 15.2 <sup>D</sup> | e    | 42 15.0   | 7500 | 67.5 |
| Butare          | 1P   |       | 15.9              |      |           | 7620 | 68.6 |
| Baker Lake      | P    |       | 18                |      |           | 7675 | 69.1 |
| Uméa            | 1P   |       | 20.2              | 1S   | 26        | 7675 | 69.1 |
| Nurmijaerwi     | 1P   |       | 24.4              | eS   | 30        | 7745 | 69.7 |
| Uinta Basin     | eP   |       | 29.0              | eS   | 52.0      | 7830 | 70.5 |
| Kiruna          | 1P   |       | 31.3              |      |           | 7890 | 71.0 |
| Tucson          | eP   |       | 31.5              | e    | 33 36.7   | 7880 | 70.9 |
| Bulawayo        | eP   |       | 33 <sup>C</sup>   |      |           | 7940 | 71.5 |
| Karoi           | eP   |       | 33 <sup>C</sup>   |      |           | 7945 | 71.5 |
| Tonto Forest    | eP   |       | 35.6              | ePP  | 36 09.2   | 7930 | 71.4 |
| Oulu            | eP   |       | 37                |      |           | 7985 | 71.8 |
| Jérusalem       | 1P   |       | 37.8 <sup>C</sup> | eS   | 43 08     | 7970 | 71.7 |
| Kajaani         | 1P   |       | 40.4              |      |           | 8030 | 72.3 |

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|                   |     |    |    |                   |     |    |    |         |       |      |
|-------------------|-----|----|----|-------------------|-----|----|----|---------|-------|------|
| Ksara             | iP  | 20 | 33 | 41                | es  | 20 | 43 | 04      | 8030  | 72.3 |
| Poulkovo          | iP  |    |    | 41 <sup>C</sup>   | is  |    |    | 09      | 8025  | 72.2 |
| Sodankylä         | eP  |    |    | 41                |     |    |    |         | 8105  | 72.9 |
| Salt Lake City    | eP  |    |    | 41.4              |     |    |    |         | 8030  | 72.3 |
| Suffield          | eP  |    |    | 42                |     |    |    |         | 8090  | 72.8 |
| Simferopol        | eP  |    |    | 43                |     |    |    |         | 7970  | 71.7 |
| Dugway            | eP  |    |    | 43.3              |     |    |    |         | 8110  | 73.0 |
| Resolute          | iP  |    |    | 45.2 <sup>D</sup> |     |    |    |         | 8190  | 73.7 |
| Station Nord      | eP  |    |    | 48                |     |    |    |         | 8220  | 74.0 |
| Kevo              | eP  |    |    | 48                | es  |    |    | 20      | 8210  | 73.9 |
| Butte             | eP  |    |    | 49.9              |     |    |    |         | 8145  | 73.3 |
| Hungry Horse      | eP  |    |    | 51.5              |     |    |    |         | 8280  | 74.5 |
| Edmonton          | eP  |    |    | 52.0              |     |    |    |         | 8390  | 74.6 |
| Alert             | eP  |    |    | 53                |     |    |    |         | 8330  | 75.0 |
| Eureka            | eP  |    |    | 57.9              |     |    |    |         | 8380  | 75.4 |
| Apatity           | iP  | 34 |    | 00.7 <sup>C</sup> | es  |    |    | 47      | 8385  | 75.4 |
| Nairobi           | iP  |    |    | 01.0              |     |    |    |         | 8380  | 75.4 |
| Yellow Knife      | eP  |    |    | 01.5              |     |    |    |         | 8490  | 76.4 |
| Addis Ababa       | eP  |    |    | 03                |     |    |    |         | 8445  | 86.0 |
| Newport           | eP  |    |    | 03.0              |     |    |    |         | 8510  | 76.6 |
| Nordman           | eP  |    |    | 03 <sup>C</sup>   |     |    |    |         | 8500  | 76.5 |
| Blue M.           | eP  |    |    | 03.7              |     |    |    |         | 8500  | 76.5 |
| Coppermine        | eP  |    |    | 07.0              |     |    |    |         | 8610  | 77.5 |
| Pasadena          | iP  |    |    | 13                | es  |    |    | 44.1--  | 8580  | 77.2 |
| Bakouriani        | eP  |    |    | 16.4              | es  |    |    | 44 18   | 8715  | 78.4 |
| Priest            | eP  |    |    | 18.0              | e   |    |    | 34 23.9 | 8790  | 79.1 |
| Tbilisi           | eP  |    |    | 21                | es  |    |    | 44 28   | 8820  | 79.4 |
| Oroville          | eP  |    |    | 21.3              |     |    |    |         | 8855  | 79.7 |
| Mt. Hamilton      | eP  |    |    | 22.0 <sup>D</sup> | e   |    |    | 34 28.6 | 8880  | 79.9 |
| Mineral           | eP  |    |    | 22.3 <sup>C</sup> |     |    |    |         | 8860  | 79.7 |
| Mould Bay         | eP  |    |    | 23.0              |     |    |    |         | 8890  | 80.0 |
| San Luis Dam      | eP  |    |    | 24.0              |     |    |    |         | 8830  | 79.5 |
| Kirovabad         | P   |    |    | 27                | S   |    |    | 44 41   | 8955  | 80.6 |
| Goris             | eP  |    |    | 27                |     |    |    |         | 8960  | 80.6 |
| Tabriz            | iP  |    |    | 27.5              | eis |    |    | 39      | 8970  | 80.7 |
| Fort St. James    | eP  |    |    | 29                |     |    |    |         | 9010  | 81.1 |
| Berkeley          | eP  |    |    | 30.5 <sup>D</sup> |     |    |    |         | 8920  | 80.3 |
| Sanae             | eP  |    |    | 31.6              |     |    |    |         | 9110  | 82.0 |
| Kermanshah        | eP  |    |    | 33                |     |    |    |         | 9065  | 81.6 |
| Bakou             | eP  |    |    | 40                |     |    |    |         | 9255  | 83.3 |
| Kheis             | eP  |    |    | 41                |     |    |    |         | 9220  | 83.0 |
| Téhéran           | eP  |    |    | 48                |     |    |    |         | 9440  | 84.9 |
| Novo-Lazarevskaya | eP  |    |    | 52                |     |    |    |         | 9510  | 85.6 |
| Chiraz            | P   |    |    | 58.2              |     |    |    |         | 9655  | 86.9 |
| Tananarive        | eP  | 35 |    | 08 <sup>D</sup>   | e   |    |    | 35 09   | 9850  | 88.6 |
| Sverdlovsk        | iP  |    |    | 07 <sup>C</sup>   |     |    |    |         | 9760  | 88.0 |
| Kizyl_Arvat       | eP  |    |    | 09                |     |    |    |         | 9815  | 88.3 |
| College           | eP  |    |    | 17.0              | e   |    |    | 38 53.0 | 10090 | 90.8 |
| Gilmore Creek     | eP  |    |    | 18.4              |     |    |    |         | 10070 | 90.6 |
| Mashad            | eIP |    |    | 26.0              |     |    |    |         | 10160 | 91.4 |
| Byrd              | eP  |    |    | 44.1              |     |    |    |         | 10720 | 96.5 |

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|                 |        |          |              |       |        |
|-----------------|--------|----------|--------------|-------|--------|
| Tachkent        | eP     | 20 35 49 |              | 10835 | 97° 0  |
| South Pole      | eP     | 51.4     |              | 10900 | 98° 1  |
| Quetta          | eP     | 57.0     |              | 10980 | 98° 6  |
| Garm            | eP     | 58       |              | 11000 | 99° 0  |
| Tiksi           | eP     | 59       |              | 11095 | 99° 6  |
| Semipalatinsk   | eP     | 36 08.6  |              | 11235 | 101° 1 |
| Talgar          | eP     | 13       |              | 11385 | 102° 4 |
| New Dehli       | (PKP)  | 40 36.0  |              | 11980 | 107° 8 |
| Mundaring       | iPKP   | 41 55.9D |              | 16280 | 146° 5 |
| Baguio          | PKP    | 42 00.0  |              | 16420 | 147° 8 |
| Meekathara      | ePKP   | 05       |              |       |        |
| Kalgoorlie      | iPKP 1 | 06.5C    |              | 16730 | 150° 6 |
| Canberra        | ePKP   | 11       |              | 16910 | 152° 2 |
| Adélaïde        | ePKP 1 | 13       |              | 17020 | 153° 2 |
| Warramunga      | ePKP   | 18       | e 20 43 18.5 | 18475 | 166° 3 |
| Charters Towers | iPKP   | 22       |              | 18690 | 167° 4 |
| Rabaul          | ePKP   | 23D      |              | 18770 | 168° 9 |

Inscrit à l'Aquila - Roma - De Bilt - Istanbul UTI -  
Kasperské Hory - Pavia.

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Mer de Norvège.

65°6 N ; 4°0 E ; H = 20h.41mn04s. (Uppsala)

|             |       |            |     |            |
|-------------|-------|------------|-----|------------|
| Skalstugan  | iPg   | 20 42 29.1 | iSb | 20 43 14.2 |
| Lillehammer | eP    | 54         |     |            |
| Kiruna      | i(Pg) | 43 13.1    | iSb | 44 26.0    |
| Umeå        | iPg   | 25.7       | iSb | 32.7       |
| Kajaani     | ePn   | 31         |     |            |
| Oulu        | ePb   | 37         |     |            |
| Uddeholm    | iSb   | 44 29.9    |     |            |
| Sodankylä   | e     | 39         |     |            |

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Données insuffisantes

|                 |      |             |   |          |
|-----------------|------|-------------|---|----------|
| Luganville      | iP   | 21 17 44.7C |   |          |
| Nouméa          | iP   | 18 07.3C    |   |          |
| Charters Towers | e    | 20 59       | i | 21 29 40 |
| Warramunga      | eP   | 22 20       |   |          |
| Isabella        | P    | 25 12       |   |          |
| South Pole      | eP   | 21.0        |   |          |
| Syowa           | iP   | 26 34.8     |   |          |
| Kajaani         | ePKP | 32 48       |   |          |
| Bratislava      | iPKP | 33 18.9     |   |          |

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Région des Iles Samoa

14°8 S ; 174°8 W ; h = 16km ; H = 21h.54<sup>mm</sup>20.8s.(CGS)  
 14°8 S ; 174°3 W ; H = 21h.54<sup>mm</sup>24s.(URSS)

M. = 6.6(Roma - Strasbourg); 6.2-6.4(Berkeley); 6.2(Pruhonice);  
 6.1(Uppsala - Kiruna); 6 - 6 1/4(Golden); 6.0(College);  
 5.9(Mt. Tsukuba); 5.8(Albuquerque); 5.8(Dugway); 5.5(CGS - Tonto  
 Forest - Wichita M.); 5.3(Rabaul); 5.1(Golden - Eureka - Bozeman SSS)  
 4.9(Uinta Basin); 4.7(Blue M.).

|                        |      |            |       |            |       |      |
|------------------------|------|------------|-------|------------|-------|------|
| Rarotonga              | eP   | 21 57 57   |       |            | 1740  | 15.6 |
| Port Vila              | i(P) | 58 17.6D   |       |            | 1830  | 16.5 |
| Ouanaham               | iP   | 19.7D      |       |            | 20 10 | 18.1 |
| Lonorore               | iPP  | 19.7D      |       |            | 1830  | 16.5 |
| Luganville             | iP   | 28.7D      |       |            | 1940  | 17.5 |
| Nouméa                 | iP   | 49.2C      | 1     | 22 02 48.5 | 2140  | 19.3 |
| Onerahi                | eP   | 59 33      |       |            | 2560  | 23.0 |
| Karapiro               | eP   | 40         |       |            | 2730  | 24.6 |
| Honiara                | eP   | 48.5       | eS    | 04 18      | 2800  | 25.2 |
| Brisbane               | eP   | 22 00 55.5 | iS    | 06 08      | 3620  | 32.6 |
| Monowai                | eP   | 01 07      |       |            | 3800  | 34.2 |
| Rabaul                 | eP   | 07.5       | e(S)  | 52         | 3800  | 34.2 |
| Keravat                | eP   | 08D        |       |            | 38 10 | 34.3 |
| Riverview              | eP   | 26.0       | e(S)  | 45.0       | 40 10 | 36.1 |
| Charters Towers        | iP   | 35         | iS    | 07 16      | 4155  | 37.4 |
| Port Moresby           | eP   | 37         | e     | 06(50)     | 4170  | 37.5 |
| Canberra               | eP   | 41         | iS    | 07 39      | 4260  | 38.3 |
| Adélaïde               | eP   | 02 46      | iS    | 09 32      | 5120  | 46.2 |
| Warramunga             | eP   | 03 03.5    |       |            | 5405  | 48.7 |
| Guam                   | eP   | 05.0       | eS    | 10 18.0    | 5420  | 48.8 |
| Darwin                 | e(P) | 46.0       |       |            | 5670  | 52.8 |
| Kalgoorlie             | iP   | 04 30.2C   |       |            | 6685  | 60.2 |
| Meekatharra            | eP   | 48         |       |            |       |      |
| Mundaring              | iP   | 05 01.0C   |       |            | 7 180 | 64.6 |
| Dodaira                | eP   | 07.0       |       |            | 7405  | 66.7 |
| Adak                   | eP   | 08.0       |       |            | 7380  | 66.4 |
| Kyosumi                | eP   | 08.4       |       |            | 7280  | 65.5 |
| Mt. Tsukuba            | eP   | 11.7       | e(SP) | 05 15.7    | 7355  | 66.2 |
| Matsushiro             | eP   | 18         | S     | 14 17      | 7519  | 67.6 |
| Shiraki                | eP   | 29.9       |       |            | 7770  | 69.9 |
| Castle Rock            | eP   | 45.0       |       |            | 7955  | 71.6 |
| Priest                 | eP   | 46.0       | e     | 05 52.2    | 8000  | 72.0 |
| Mt. Hamilton           | eP   | 46.0       | e     | 52.2       | 8000  | 72.0 |
| San Francisco (Rancon) | eP   | 47.0       |       |            | 7980  | 71.8 |
| San Luis Dan           | eP   | 47.4       |       |            | 8010  | 72.1 |
| Berkeley               | eP   | 47.8C      | i     | 51.4       | 8000  | 72.0 |
| Mount Diablo           | eP   | 49.0       |       |            | 8020  | 72.2 |
| Pasadena               | iP   | 49.0       | eS    | 15 11.0    | 8070  | 72.6 |

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|                   |       |          |      |           |       |       |
|-------------------|-------|----------|------|-----------|-------|-------|
| Youjno_Sakhalinsk | eP    | 22 05 50 | eS   | 22 15 16  | 8040  | 72.4  |
| Stone Canyon      | eP    | 50.5     |      |           | 7990  | 71.9  |
| Oroville          | eP    | 53.5     |      |           | 8155  | 73.4  |
| Mineral           | eP    | 55.6D    |      |           | 8200  | 73.8  |
| South Pole        | eP    | 06 02.9  |      |           | 8370  | 75.3  |
| Big Mountain      | eP    | 04.5     |      |           | 8400  | 75.6  |
| Vladivostok       | eP    | 08       |      |           | 8380  | 75.5  |
| Hong Kong         | eP    | 12.0     | e(S) | 16 30.0   | 8745  | 78.7  |
| Lembang           | IP    | 12.0     |      |           | 8480  | 76.3  |
| Sparrevohn        | eP    | 14.5     |      |           | 8580  | 77.2  |
| Eureka            | IP    | 15.0     |      |           | 8545  | 76.9  |
| Tucson            | eP    | 16.0     | eS   | 05.0      | 8570  | 77.1  |
| Mimy              | eP    | 17       | eS   | 15 59.0   | 8600  | 77.4  |
| Tonto Forest      | eP    | 18.2     | ePP  | 09 18.1.6 | 8620  | 77.6  |
| Longmire          | eP    | 20       |      |           | 8615  | 77.5  |
| Flagstoff         | eP    | 22.6     |      |           | 8645  | 77.8  |
| Glen Canyon       | eP    | 25.2     |      |           | 8730  | 78.6  |
| Blue M.           | eP    | 25.6     |      |           | 8780  | 79.0  |
| Presa Infiernillo | eP    | 28       |      |           | 8775  | 79.0  |
| Mt Sheep Creek    | IP    | 28.2     |      |           | 8820  | 79.4  |
| Dugway            | eP    | 28.2     |      |           | 8820  | 79.4  |
| Salt Lake City    | eP    | 33.6     |      |           | 8920  | 80.3  |
| Newport           | eP    | 36.0     |      |           | 9000  | 81.0  |
| Black Rapids      | IP    | 36.1     |      |           | 9020  | 81.2  |
| Nordman           | eP    | 38.0     |      |           | 9030  | 81.3  |
| Uinta Basin       | eP    | 38.9     | ePP  | 48.8      | 9070  | 81.6  |
| Albuquerque       | IP    | 39.5D    | e    | 06 59.0   | 9055  | 81.5  |
| Tanana            | eP    | 40.0     |      |           | 9080  | 81.7  |
| College           | IP    | 40.1     | eS   | 16 56.0   | 9120  | 82.1  |
| Gilmore Creek     | eP    | 40.7     |      |           | 9139  | 82.2  |
| Pedro Dome        | IP    | 41.2     |      |           | 9130  | 82.2  |
| Nat.Univ.Mexico   | eP    | 43.3     | IS   | 17 00     | 9155  | 82.4  |
| Butte             | eP    | 43.6     |      |           | 9155  | 82.4  |
| Bozeman SSS       | eP    | 46.0     | ePcP | 06 51.9   | 9200  | 82.8  |
| Hungry Horse      | eP    | 47.4     |      |           | 9200  | 82.8  |
| Lubbock           | eP    | 53.0     |      |           | 9380  | 84.4  |
| Golden            | eP    | 53.5     |      |           | 9355  | 84.2  |
| Edmonton          | eP    | 07 00.0  |      |           | 9520  | 85.7  |
| Wichita M.        | eP    | 07.8     | eSKS | 17 40     | 9710  | 87.4  |
| Yakoutsk          | eP    | 09       |      |           | 9780  | 88.0  |
| Mawson            | IP    | 15.5     |      |           | 9770  | 87.9  |
| La Palma          | eP    | 17.6     |      |           | 9940  | 89.5  |
| Bodajbo           | eP    | 33       |      |           | 10295 | 92.7  |
| Oulan Bator       | eP    | 37       | S    | 18 47     | 10355 | 93.2  |
| Tiksi             | eP    | 38       |      |           | 10450 | 94.1  |
| Novo_Lazarevskaya | eP    | 42       |      |           | 10505 | 94.5  |
| Mould Bay         | eP    | 50.0     |      |           | 10730 | 96.6  |
| Qui to            | eP    | 56       | S    | 19 20     | 10680 | 96.1  |
| Penas             | eP    | 08 05    |      |           | 11220 | 101.0 |
| Resolute          | eP    | 13.0     |      |           | 11280 | 101.5 |
| Talgar            | ePKP1 | 13 01    |      |           | 12545 | 112.9 |

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|                  |                      |                     |                   |          |  |       |       |
|------------------|----------------------|---------------------|-------------------|----------|--|-------|-------|
| Garm             | ePKP <sub>1</sub>    | 22 13 09            |                   |          |  | 13160 | 118*4 |
| Sverdlovsk       | ePKP <sub>1</sub>    | 17                  |                   |          |  | 13435 | 120*9 |
| Quetta           | ePKP                 | 18.5 <sup>D</sup>   |                   |          |  | 13500 | 121*5 |
| Oulu             | ePKP                 | 28                  |                   |          |  | 14205 | 127*8 |
| Kajaani          | iPKP                 | 29.1                |                   |          |  | 14270 | 128*4 |
| Uméa             | iPKP                 | 32.3                | 1SS               | 22 33 08 |  | 14435 | 129*9 |
| Nurmi jaerwi     | ePKP                 | 37                  | e                 | 24 08    |  | 14690 | 132*2 |
| Chiraz           | ePKP                 | (42)                |                   |          |  | 14860 | 133*7 |
| Kongsberg        | ePKP                 | 44                  |                   |          |  | 15010 | 135*1 |
| Karoi            | ePKP                 | 45                  | e                 | 16 23    |  | 15595 | 140*4 |
| Tabriz           | ePKP                 | 47                  | ei                | 35 01    |  | 15220 | 137*0 |
| Kirovabad        | ePKP                 | 47                  |                   |          |  | 15110 | 136*0 |
| Bulawayo         | ePKP                 | 48                  | e                 | 16 37    |  | 15370 | 138*3 |
| Moxa             | ePKP <sub>1</sub>    | 53                  |                   |          |  | 15990 | 143*9 |
| Goris            | e(PKP <sub>1</sub> ) | 54                  |                   |          |  | 15160 | 136*4 |
| Oujgorod         | ePKP <sub>1</sub>    | 54                  |                   |          |  | 15940 | 143*4 |
| Niedzica         | ePKP                 | 54                  |                   |          |  | 15925 | 143*3 |
| Collm            | ePKP <sub>1</sub>    | 55                  | e                 | 14 10    |  | 15890 | 143*0 |
| Bensberg         | PKP                  | 55.0                | e                 | 14.0     |  | 16655 | 149*9 |
| Praha            | ePKP                 | 56                  |                   |          |  | 16000 | 144*0 |
| Pruhonice        | ePKP                 | 56                  | ess               | 35 55    |  | 16010 | 144*1 |
| Krakow           | ePKP                 | 57                  |                   |          |  | 15870 | 142*9 |
| Erlangen         | ePKP <sub>1</sub>    | 58.0                |                   |          |  | 16095 | 144*9 |
| Kasperské Hory   | eiPKP <sub>1</sub>   | 58                  |                   |          |  | 16120 | 145*1 |
| Nairobi          | PKP                  | 58.5                |                   |          |  | 16100 | 144*9 |
| Bratislava       | iPKP                 | 59                  | i                 | 15 18.5  |  | 16145 | 145*3 |
| Wien Kobenzl     | eiPKP                | 59.5 <sup>C</sup>   |                   |          |  | 16155 | 145*4 |
| Folinière        | ePKP                 | 59.7                |                   |          |  | 16200 | 145*8 |
| Basel            | PKP                  | 14(00)              |                   |          |  | 16345 | 147*3 |
| Campulung        | PKP                  | 00                  |                   |          |  | 16145 | 145*3 |
| St. Sauveur      | ePKP                 | 00.3                |                   |          |  | 16220 | 146*0 |
| Karlsruhe        | iPKP                 | 01.4                |                   |          |  | 16200 | 145*8 |
| Le Pertre        | ePKP                 | 01.7                |                   |          |  | 16275 | 146*5 |
| Stuttgart        | ePKP                 | 02.0 <sup>(D)</sup> |                   |          |  | 16220 | 146*0 |
| Fürstenfeldbruck | eiPKP                | 02                  | ePP               | 17 32    |  | 16255 | 146*3 |
| Bühlerhöhe       | e(PKP <sub>1</sub> ) | 02.3                |                   |          |  | 16235 | 146*1 |
| Strasbourg       | ePKP <sub>1</sub>    | 03.0                | e                 | 31 28    |  | 16245 | 146*2 |
| Champ du Feu     | ePKP                 | 03.1                |                   |          |  | 16275 | 146*5 |
| Ksara            | iPKP                 | 04                  | iPP               | 17 17    |  | 16270 | 146*4 |
| Istanbul UTI     | ePKP                 | 04                  |                   |          |  | 16295 | 146*7 |
| Gorron           | ePKP                 | 04.2                |                   |          |  | 16230 | 146*1 |
| Ljubljana        | ePKIKP               | 05                  | ePKP <sub>2</sub> | 14 10    |  | 16430 | 147*9 |
| Sommée Lormes    | ePKP                 | 05.6                |                   |          |  | 16400 | 147*6 |
| Jérusalem        | ePKP                 | 06                  |                   |          |  | 16420 | 147*8 |
| St. Saulge       | ePKP                 | 06.4                |                   |          |  | 16410 | 147*7 |
| Les Buteaux      | ePKP                 | 06.5                |                   |          |  |       |       |
| Addis Ababa      | iPKP                 | 06.5                |                   |          |  | 16300 | 146*7 |
| Garchy           | iPKP                 | 06.8 <sup>D</sup>   |                   |          |  | 16395 | 147*6 |
| Toulx Ste Croix  | ePKP                 | 07.6                |                   |          |  | 16500 | 148*5 |
| Trieste          | eiP                  | 09.8                | 1SS               | 36 50    |  | 16485 | 148*4 |
| Vouglans         | ePKP <sub>1</sub>    | 10                  | ei                | 14 27.4  |  | 16500 | 148*5 |

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|                  |       |            |        |               |       |       |
|------------------|-------|------------|--------|---------------|-------|-------|
| Roselend         | ePKP1 | 22 14 10.0 | ei     | 22 14 15.0    | 16575 | 149.2 |
| Lanslevillard    | ePKP1 | 11         | ei     | 16.0          | 16620 | 149.6 |
| Butare           | eiPKP | 11.4       |        |               | 16685 | 150.2 |
| Monteynard       | ePKP1 | 11.5       |        |               | 16660 | 149.9 |
| Clermont         | iPKP1 | 12.5       | e      | 23 05 - 24 10 | 16665 | 149.1 |
| Ciné             | ePKP  | 13         |        |               | 16615 | 149.5 |
| Sa da Bandeira   | PKP   | 13.0       |        |               | 16590 | 149.3 |
| St Paul en Foret | ePKP  | 14.3       |        |               | 16810 | 151.3 |
| La Frestale      | ePKP  | 14.3       |        |               | 16635 | 149.7 |
| Le Pouchou       | ePKP  | 14.9       |        |               | 16670 | 150.0 |
| Lorgues          | ePKP  | 14.3       |        |               | 16615 | 151.4 |
| Porto            | PKP   | 18.0       |        |               | 16800 | 151.2 |
| Toledo           | iPKP1 | 23.0       | iPKP2  | 22 14 34.5    | 17080 | 153.7 |
| Bangui           | iPKP1 | 27.1       | 1 (PP) | 19 19.1       | 18140 | 163.2 |
| Lamto            | PKP   | 32.6       |        |               | 18545 | 166.9 |
| Tamanrasset      | ePKP  | 42         |        |               | 19115 | 172.0 |
| Mashad           | eiPP  | 15 26.0    |        |               | 14135 | 127.2 |
| Kizyl Arvat      | ePP   | 40         |        |               | 14355 | 129.2 |
| M Bour           | ePP   | 18 36      | eSS    | 38 4.9        | 17615 | 158.6 |

inscrit à Roma, Rabat, Pavia, De Bilt, Uccle,  
 Ponta Delgada., l'Aquila, Raciborz, Hermanus, La Paz,  
 Tacubaya, Irkoutsk, Lomé.

XIX. 8 janvier  
 Mer de Banda

7° 5S, 127° 4E h = 10 km H = 22<sup>h</sup>26<sup>mn</sup>44<sup>s</sup> (CGS)  
 M = 5.0 (Port Moresby).

|                 |     |            |    |            |       |       |
|-----------------|-----|------------|----|------------|-------|-------|
| Darwin          | eP  | 22 28 12.0 | eS | 22 29 10.0 | 655   | 5.9   |
| Warramunga      | eP  | 29 58.5    | eS | 32 18      | 1570  | 14.1  |
| Port Moresby    | eP  | 31 07      |    |            | 2180  | 19.6  |
| Charters Towers | iP  | 32         |    |            | 2470  | 22.2  |
| South Pole      | eP  | 33 57.3    |    |            | 9180  | 82.6  |
| Uintabasin      | PKP | 45 23.2    |    |            | 13310 | 119.8 |
| La Paz          | PKP | 46 27.5    | i  | 43 34.8    | 16845 | 151.6 |
| Penas           | PKP | 3 98       | i  | 39.8       | 16855 | 151.7 |
| Cochabamba      | PKP | 46.2       |    |            |       |       |

XX. 8 janvier  
 Nouvelles Hébrides (île Espiritu Santo)

15° 0S, 166° 5E H = 22<sup>h</sup>29<sup>mn</sup>31<sup>s</sup>  
 M = 4.2 (Nouméa)

|            |     |             |    |          |  |  |
|------------|-----|-------------|----|----------|--|--|
| Luganville | iP  | 22 2 945.3D | iS | 22 29 53 |  |  |
| Lonorore   | iP  | 30 00.0D    | iS | 30 15.5  |  |  |
| Port Vila  | eiP | 24.2        | iS | 31 01.5  |  |  |
| Nouméa     | iP  | 31 17.1(D)  | iS | 32 40.5  |  |  |

I. 9 janvier  
 Iles Tonga

15° 4S, 174° 5W h = 52 km H = 00<sup>h</sup>25<sup>mn</sup>42<sup>s</sup> (CGS)

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M = 5.1 (Palmer), 4.6 (CGS, Eureka, Digway, Golden, Wichita  
M), 4.5 (Uinta Basin), 4.4 (Tonto Forest, Blue M)

|                  |        |          |       |          |       |       |
|------------------|--------|----------|-------|----------|-------|-------|
| Rarotonga        | eP     | 00 29 14 |       |          | 1680  | 15.1  |
| Luganville       | iP     | 47.10    |       |          | 1965  | 17.7  |
| Karapiro         | eP     | 30 02    |       |          |       |       |
| Nouméa           | iP     | 07.2     |       |          | 2145  | 19.3  |
| Charters Towers  | eP     | 32 53    | i     | 00 41 38 | 4180  | 37.6  |
| Toolangi         | eP     | 33 34    |       |          | 4620  | 41.6  |
| Warramunga       | eP     | 34 22.5  |       |          | 5420  | 48.8  |
| Byrd             | eP     | 36 53.1  |       |          | 7680  | 69.2  |
| Honiara          | e(S)   | 37 00    |       |          |       |       |
| San Luis Dam     | eP     | 04.1     |       |          | 8045  | 72.4  |
| Priest           | P      | 07.3     |       |          | 8020  | 72.2  |
| Pasadena         | eP     | 08       |       |          | 8090  | 72.8  |
| Jamestown        | P      | 0 6.8 C  |       |          | 8155  | 73.4  |
| Oroville         | eP     | 11.8     |       |          | 8190  | 73.7  |
| Tucson           | eP     | 33       |       |          | 8580  | 77.2  |
| Eureka           | iP     | 34.8     |       |          | 8580  | 77.2  |
| Tonto Forest     | eP     | 36.3     | e(DP) | 37 41.1  | 8645  | 77.8  |
| Blue M.          | eP     | 41.2     |       |          | 8810  | 79.3  |
| Glen Canyon      | eP     | 42.5     |       |          | 8755  | 78.8  |
| Digway           | eP     | 45.8     |       |          | 8845  | 79.6  |
| Palmer           | eP     | 45.8     |       |          | 8810  | 79.3  |
| Uinta Basin      | eP     | 58.4     |       |          | 90 0  | 81.8  |
| College          | eP     | 59       |       |          | 9180  | 82.6  |
| Flaming Gorge    | eP     | 38 02.7  |       |          | 9135  | 82.2  |
| Gilmore Creek    | eP     | 03       |       |          | 9190  | 82.7  |
| Golden           | eP     | 13       |       |          | 9380  | 84.4  |
| Edmonton         | eP     | 21       |       |          | 965   | 86.1  |
| Wichita M.       | eP     | 26.4     |       |          | 9720  | 87.5  |
| Clermont         | ePKP1  | 44 59    |       |          |       |       |
| Erlangen         | ePKP1  | 45 11.3  |       |          |       |       |
| Wien             | ePKP   | 14       |       |          |       |       |
| Srobarova        | PKP    | 17       |       |          | 16220 | 146.0 |
| Nairobi          | PKP    | 17       |       |          | 16100 | 144.9 |
| Bratislava       | PKP    | 20       |       |          | 16210 | 145.9 |
| Kasperské Hory   | PKP    | 20       |       |          | 16190 | 145.7 |
| Furstenfeldbruck | e1PKP1 | 24       | ePKP2 | 45 29    |       |       |
| Champ du Feu     | PKP1   | 25.1     |       |          |       |       |
| Handompré        | PKP1   | 27.9     |       |          |       |       |
| Garchy           | iPKP   | 29.3D    |       |          |       |       |
| Sommée Lormes    | PKP    | 3 98     |       |          | 16465 | 148.2 |
| St Saulge        | PKP    | 30.6     |       |          | 16480 | 148.3 |
| Les Buteaux      | PKP1   | 30.6     |       |          |       |       |
| Toux Ste Croix   | PKP    | 32.2     |       |          |       |       |
| Butare           | e1PKP  | 32.3     |       |          |       |       |

II. 9 janvier  
Est du Witwatersrand

26°35, 28°3E  
M = 3.3 (Bilawayo)

H = 01h41mn47s (Bilawayo)



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Karoi epn 01 43 01 e 01 46 31  
 Bulawayo epn 16 eSg 44 50

III. 9 janvier  
 Wyoming ( U S A )

42°7N, 106°8W. h = 33km H = 02h16mn39s (CGS)

M = 3.8 (CGS, Dugway)

|               |     |            |     |            |      |      |
|---------------|-----|------------|-----|------------|------|------|
| Flaming Gorge | iPn | 02 17 20.4 | iLG | 02 17 53.9 | 290  | 2.6  |
| Boulder       | eP  | 23.7       | eS  | 57.8       | 320  | 2.9  |
| Uinta Basin   | eP  | 28.2       | eLG | 18 06.4    | 345  | 3.1  |
| Bozeman SSS   | eP  | 46.5       |     |            | 500  | 4.5  |
| Dugway        | eP  | 55.6       | eL  | 19 20.5    | 565  | 5.1  |
| Wichita M.    | ePP | 19 34.9    |     |            | 1135 | 10.2 |

IV. 9 janvier  
 En aval des Gorges de Kariba

15°8S, 29°2E H = 06h28mn03s (Bulawayo)

M = 2.1 (Bulawayo)

|          |     |          |     |          |
|----------|-----|----------|-----|----------|
| Karoi    | iP  | 06 28 23 | iS  | 06 28 37 |
| Bulawayo | ePn | 29 07    | eSn | 29 55    |

V. 9 janvier  
 Nouvelles Hébrides (Ile Tanna)

20°0S, 168°0E H = 06h37mn15s (Nouméa)

M = 4.3 (Nouméa)

|            |    |             |    |            |
|------------|----|-------------|----|------------|
| Port Vila  | iP | 06 37 52.3D | iS | 06 38 21.5 |
| Nouméa     | iP | 53.3D       | iS | 29.5       |
| Luganville | iP | 38 23.1D    | iS | 39 16      |

VI. 9 janvier  
 Région des Iles Samoa

14°8S, 174°8W h = 75km H = 09h28mn13.8s (CGS)

M = 5.2 (College), 4.9 (Palmer), 4.7 (CGS, Wichita M, Uinta Basin, Albuquerque), 4.6 (Tonto Forest), 4.5 (Dugway), 4.4 (Eureka), 4.3 (Blue M), 4.0 - 4.4 (Berkeley).

|                 |     |             |    |                     |
|-----------------|-----|-------------|----|---------------------|
| Lonorore        | eIP | 0 9 29 53.1 |    |                     |
| Luganville      | eP  | 30 14.2     |    | 1935 17.4           |
| Nouméa          | iP  | 36.2C       |    | 2135 19.2           |
| Karapiro        | eP  | 31 27       |    | 2735 24.6           |
| Charters Towers | iP  | 33 21.1     |    | 4155 37.4           |
| Canberra        | eP  | 28          | eS | 0 1 39 32 4255 33.3 |
| Toolangi        | eP  | 57          |    | 4645 41.8           |
| Warramunga      | eP  | 34 50.5     |    | 5400 48.6           |
| Byrd            | eP  | 37 17.4     |    | 7745 69.7           |
| Mt Hamilton     | eP  | 31.4D       |    | 8000 72.0           |
| Berkeley        | eP  | 31.8C       |    | 8000 72.0           |
| Pasadena        | eP  | 32          |    | 8065 72.6           |
| Priest          | eP  | 32.1D       |    | 8000 72.0           |
| San Luis Dam    | eP  | 32.6        |    | 8020 72.2           |
| Jamestown       | eP  | 38.2D       |    | 8135 73.2           |

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|                 |       |      |       |          |            |       |       |
|-----------------|-------|------|-------|----------|------------|-------|-------|
| Oroville        | eP    | 0937 | 39    |          |            | 8155  | 73.4  |
| Mineral         | eP    |      | 41.9D |          |            |       |       |
| Big Mountain    | iP    |      | 51.3  |          |            | 8400  | 75.6  |
| Eureka          | iP    | 38   | 00    |          |            | 8545  | 76.9  |
| Tucson          | eP    |      | 00.3  |          |            | 8565  | 77.1  |
| Tonto Forest    | eP    |      | 04.5  | ePcP     | 08 38 14.3 | 8620  | 77.6  |
| Palmer          | eP    |      | 08.8  |          |            | 8755  | 78.8  |
| Blue M.         | eP    |      | 10.3  |          |            | 8780  | 79.0  |
| Glen Canyon     | eP    |      | 11    |          |            | 8745  | 78.7  |
| Mts Sheep Creek | iP    |      | 12.7  |          |            | 8820  | 79.4  |
| Digway          | eP    |      | 13    |          |            | 8820  | 79.4  |
| Penticton       | eP    |      | 19    |          |            |       |       |
| Nordman         | eP    |      | 22    |          |            | 9035  | 81.3  |
| Black Rapids    | iP    |      | 22.6  |          |            | 9020  | 81.2  |
| Uinta Basin     | eP    |      | 24.8  |          |            | 9065  | 81.6  |
| Albuquerque     | eP    |      | 25.5  |          |            | 9055  | 81.5  |
| College         | iP    |      | 26.3  |          |            | 9120  | 82.1  |
| Gilmore Creek   | eP    |      | 27    |          |            | 9135  | 82.2  |
| Pedro Dome      | iP    |      | 27.6  |          |            | 9145  | 82.3  |
| Butte           | eP    |      | 28.8  |          |            | 9165  | 82.5  |
| Suffield        | eP    |      | 44    |          |            |       |       |
| Edmonton        | eP    |      | 46    |          |            | 9520  | 85.7  |
| Wichita M.      | eP    |      | 55.3  | eDP      | 39 14.0    | 9710  | 87.4  |
| Mould Bay       | eP    | 39   | 37    |          |            | 10735 | 98.6  |
| Penas           | eP    | 40   | 01.2  |          |            |       |       |
| La Paz          | eP    |      | 02    |          |            |       |       |
| Pruhonice       | PKP   | 45   | 43    |          |            | 16010 | 144.1 |
| Bratislava      | PKP   |      | 45    | e        | 46 24      | 16145 | 145.3 |
| Kasperské Hory  | PKP   |      | 45    |          |            | 16120 | 145.1 |
| Wien            | ePKP  |      | 45.3C |          |            |       |       |
| Nairobi         | PKP   |      | 46    |          |            | 16090 | 144.8 |
| Champ du Feu    | PKP   |      | 47.5  |          |            |       |       |
| Ljubljana       | ePKP  |      | 48    |          |            |       |       |
| Welschbruch     | ePKP  |      | 49.3  |          |            |       |       |
| Roselend        | ePKP1 |      | 50    | e        | 45 48      |       |       |
| Addis Ababa     | PKP   |      | 52.8  |          |            | 16290 | 146.6 |
| Lanslevillard   | ePKP1 |      | 57    | e        | 46 04.5    |       |       |
| Monteynard      | PKP1  | 46   | 03    |          |            |       |       |
| Bangui          | ePKP1 |      | 10.8C | i(PKPK1) | 38.1       |       |       |

VII. 9 janvier  
Drakensberg (Lesotho)

298S, 28°3E

H = 09h54<sup>mm</sup>53<sup>s</sup> (Bulawayo)

M = 3.3 (Bulawayo)

Bulawayo  
Karoi

ePn 0957 10  
ePn 58

eSn 0958 53  
eSn 10 00 12

VIII. 9 janvier  
Ouest du Witwatersrand

28°6S, 27°0E

H = 10h31<sup>mm</sup>20<sup>s</sup> (Bulawayo)

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M = 3.3 (Bulawayo)

|          |     |          |     |          |
|----------|-----|----------|-----|----------|
| Bulawayo | ePn | 10 32 56 | eSg | 10 34 39 |
| Karoi    | ePn | 33 41    | eSn | 35 27    |

IX. 9 janvier  
Région de la Nouvelle Bretagne

6°7S, 153°4E h = 57km H = 11<sup>h</sup>03<sup>m</sup>50.1<sup>s</sup> (CGS)

M = 5.2 (Shillong), 4.6 (CGS), 4.5 (Eureka), 4.1 (Blue M)

|                 |      |           |    |          |       |       |
|-----------------|------|-----------|----|----------|-------|-------|
| Rabaul          | eP   | 11 04 33C | iS | 11 05 05 | 310   | 2.8   |
| Keravat         | iP   | 33D       | iS | 06       | 310   | 2.8   |
| Port Moresby    | eP   | 05 30     |    |          | 745   | 6.7   |
| Honiara         | eP   | 33        |    |          | 780   | 7.0   |
| Charters Towers | iP   | 07 24     |    |          | 1665  | 15.9  |
| Brisbane        | iP   | 08 24.7   |    |          | 2230  | 20.5  |
| Warramunga      | eP   | 47.5      |    |          | 2520  | 22.7  |
| Darwin          | eP   | 54        |    |          | 2555  | 23.0  |
| Mundaring       | P    | 11 42.8D  |    |          |       |       |
| Dodaira         | eP   | 53.5      |    |          | 4955  | 44.6  |
| Matsushiro      | P    | 12 05     |    |          |       |       |
| Shillong        | iP   | 14 45.7   |    |          | 7535  | 67.8  |
| College         | eP   | 16 11.5   | e  | 16 32.5  | 9280  | 83.5  |
| Blue M.         | eP   | 17 05.3   |    |          | 10465 | 94.2  |
| Eureka          | eP   | 07.2      |    |          | 10520 | 94.7  |
| La Paz          | ePKP | 23 02     |    |          |       |       |
| Penas           | PKP  | 02.5      |    |          | 14745 | 132.7 |
| Tamanrasset     | ePKP | 25        |    |          |       |       |

X. 9 janvier  
Au large de la cote de l'Orégon (USA)

43°7N, 127°6W h = 33km H = 11<sup>h</sup>44<sup>m</sup>52<sup>s</sup> (CGS)

M = 5.4 (Longmire), 4.9 (Eureka), 4.8 (Blue M), 4.5 (Wichita M), 4.4 (CGS), 4.1 (Uinta Basin), 3.7 (Tonto Forest).

|              |     |             |     |            |      |      |
|--------------|-----|-------------|-----|------------|------|------|
| Longmire     | iP  | 11 46 04.3C |     |            | 565  | 5.1  |
| Kroville     | iP  | 24.4        |     |            | 690  | 6.2  |
| Blue M.      | ePn | 40          |     |            | 835  | 7.5  |
| Jamestown    | P   | 47.7D       |     |            | 880  | 7.9  |
| San Luis Dam | eP  | 49.9        |     |            | 920  | 8.3  |
| Spokane      | eP  | 52.4        |     |            | 910  | 8.2  |
| Newport      | eP  | 56          |     |            | 955  | 8.6  |
| Nordman      | eP  | 47 00       |     |            | 80   | 8.8  |
| Eureka       | iP  | 15.8        |     |            | 1080 | 9.7  |
| Hungry Horse | eP  | 23.3        |     |            | 1165 | 10.5 |
| Dugway       | eP  | 36.8        |     |            | 1290 | 11.6 |
| Bozeman SSS  | eP  | 37          |     |            | 1230 | 11.5 |
| Pasadena     | eP  | 44          |     |            | 1345 | 12.1 |
| Edmonton     | eP  | 48 02       |     |            | 1490 | 13.4 |
| Uinta Basin  | eP  | 09.4        | ePP | 11 48 18.1 | 1535 | 13.8 |
| Tonto Forest | eP  | 36.3        | ePP | 50.0       | 1755 | 15.8 |
| Tucson       | eP  | 56.4        |     |            | 1945 | 17.5 |
| Wichita M.   | eP  | 50 08.4     |     |            | 2680 | 24.1 |

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Région de la Nouvelle Bretagne

H = 12<sup>h</sup>30<sup>mn</sup>28<sup>s</sup> M = 4.4 (Rabaul)

|              |    |    |    |                 |    |    |    |      |
|--------------|----|----|----|-----------------|----|----|----|------|
| Keravat      | EP | 12 | 31 | 14 <sup>D</sup> | 1S | 12 | 31 | 45.5 |
| Rabaul       | 1P |    |    | 14              | 1S |    |    | 49   |
| Port Moresby | EP |    | 32 | 11              |    |    |    |      |

XII. 9 janvier  
Au large de la Préfecture de Ibaraki (Japon)

36°30'N, 141°16'E h = 50km H = 13<sup>h</sup>26<sup>mn</sup>13.5<sup>s</sup> (JMA)  
M = 3.8 (JMA)

|            |    |    |    |      |    |    |    |      |     |     |
|------------|----|----|----|------|----|----|----|------|-----|-----|
| Onahama    | 1P | 13 | 26 | 25.7 | 1S | 13 | 26 | 33.2 | 59  | 0.5 |
| Mito       | 1P |    |    | 27.5 | 1S |    |    | 35.7 | 72  | 0.6 |
| Kakioka    | EP |    |    | 31   | eS |    |    | 4.1  | 101 | 0.9 |
| Fukushima  | EP |    |    | 33   | S  |    |    | 54.3 | 156 | 1.4 |
| Matsushiro | 1P |    |    | 53.2 | S  |    | 27 | 24   | 274 | 2.5 |

XIII. 9 janvier  
Alaska central

64°9'N, 146°6'W h = 33km H = 13<sup>h</sup>27<sup>mn</sup>09<sup>s</sup> (CGS)

|                 |    |    |    |      |                 |    |    |      |     |     |
|-----------------|----|----|----|------|-----------------|----|----|------|-----|-----|
| College         | EP | 13 | 27 | 18   | eS              | 13 | 27 | 22.5 | 55  | 0.5 |
| Pedro Dome      | 1P |    |    | 18.5 |                 |    |    |      | 45  | 0.4 |
| Black Rapids    | 1P |    |    | 32   |                 |    |    |      | 155 | 1.4 |
| Tanana          | EP |    |    | 43.1 |                 |    |    |      | 255 | 2.3 |
| Mts Sheep Creek | EP |    |    | 53   |                 |    |    |      | 345 | 3.1 |
| Palmer          | EP |    |    | 28   | 02 <del>8</del> |    |    |      | 390 | 3.5 |
| Sparrevohn      | EP |    |    | 31.3 |                 |    |    |      | 620 | 5.6 |

XIV. 9 janvier  
Sud de Hondo (Japon)

31°0'N, 133°0'E h = 4.0km H = 13<sup>h</sup>28<sup>mn</sup>24.2<sup>s</sup> (CGS)

M = 4.9 (Mt Tsukuba), 4.8 (Jinta Basin), 4.7 (CGS, Dugway),  
4.4 (Eureka), 3.9 (Tonto Forest).

|                 |    |    |    |      |      |    |    |      |      |      |
|-----------------|----|----|----|------|------|----|----|------|------|------|
| Oshiyama        | EP | 13 | 29 | 22.6 | i    | 13 | 30 | 09.5 | 435  | 3.9  |
| Wakaura W.      | EP | 12 |    | 24.5 | e    |    |    | 13.3 | 445  | 4.0  |
| Kiyosumi        | EP |    |    | 34.3 |      |    |    |      | 510  | 4.6  |
| Dodaira         | 1P |    |    | 39.3 | e    |    |    |      | 29   | 47.3 |
| Matsushiro      | 1P |    |    | 44.8 |      |    |    |      |      |      |
| Mt Tsukuba      | EP |    |    | 48.3 |      |    |    |      | 610  | 5.5  |
| Warramunga      | EP |    |    | 37   | 21.5 |    |    |      | 5635 | 50.7 |
| Charters Towers | EP |    |    | 27   |      |    |    |      | 5710 | 51.4 |
| Palmer          | EP |    |    | 52.2 |      |    |    |      | 6135 | 55.2 |
| College         | EP |    |    | 53.5 |      |    |    |      | 6190 | 55.7 |
| Gilmore Creek   | EP |    |    | 53.7 |      |    |    |      | 6210 | 55.9 |
| Quetta          | EP |    |    | 38   | 32.4 |    |    |      | 6690 | 60.2 |
| Mould Bay       | EP |    |    | 49   |      |    |    |      | 7010 | 63.1 |
| Resolute        | EP |    |    | 39   | 27   |    |    |      | 7680 | 69.1 |

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|              |        |                   |       |       |
|--------------|--------|-------------------|-------|-------|
| Edmonton     | eP     | 13 40 08          | 8435  | 75.9  |
| Hungry Horse | eP     | 21.9              | 8690  | 78.2  |
| Jamestown    | eP     | 29.4              | 8865  | 79.8  |
| Butte        | eP     | 32.7              | 8920  | 80.3  |
| Direka       | iP     | 40.8              | 9100  | 81.9  |
| Dugway       | eP     | 49.4              | 9280  | 83.5  |
| Uinta Basin  | eP     | 53.3              | 9490  | 85.4  |
| Glamis       | P      | 41 03             | 9590  | 86.3  |
| Tonto Forest | eP     | 12.3              | 9780  | 88.0  |
| Penas        | PKP    | 48 13.0           | 16855 | 151.7 |
| La Paz       | PKP    | 18.0              | 16910 | 152.2 |
| Cochabamba   | e(PKP) | 35.2              |       |       |
|              |        | insec rit à Anpu. |       |       |

XV. 9 janvier  
Haute Silésie (Pologne)

Données insuffisantes

|          |     |            |                |  |
|----------|-----|------------|----------------|--|
| Bytom    | e   | 13 35 23.8 |                |  |
| Dabrowa  | e   | 30.3       |                |  |
| Krakow   | eSg | 45.5       |                |  |
| Niedzica | ePg | 48.8       | eSg 13 36 06.3 |  |

XVI. 9 janvier  
Californie centrale (USA)

$37^{\circ}6'N$ ,  $121^{\circ}9'W$   $h = 8km$   $H = 14^h15^m44.7^s$  (CGS)  
 $37^{\circ}33.2'N$ ,  $121^{\circ}54.0'W$  (Hypocentre de Berkeley)  
 $M = 2.2$  (Berkeley)

|                   |    |             |    |            |     |     |
|-------------------|----|-------------|----|------------|-----|-----|
| Mount Diablo      | iP | 14 13 52.5D | iS | 14 13 58.2 | 35  | 0.3 |
| Holy Cross        | iP | 56.4        | iS | 14 05      | 65  | 0.6 |
| San Luis Dam      | eP | 58          | eS | 08.5       | 80  | 0.7 |
| Stone Canyon Obs. | eP | 14 05       | iS | 24         | 120 | 1.1 |
| Oroville          | eP | 42.1        |    |            | 220 | 2.0 |

XVII. 9 janvier  
Région de la Nouvelle Bretagne

$6^{\circ}7'S$ ,  $153^{\circ}7'E$   $h = 33km$   $H = 14^h25^m15.6^s$  (CGS)  
 $6^{\circ}6'S$ ,  $154^{\circ}0'E$   $H = 14^h25^m15^s$  (URSS)  
 $M = 5.8$  (Shillong),  $5.0$  (CGS, College)

|                 |    |             |    |          |      |      |
|-----------------|----|-------------|----|----------|------|------|
| Rabaul          | iP | 14 26 00.5D | iS | 14 26 37 | 320  | 2.9  |
| Keravat         | iP | 00.5D       | iS | 34       | 320  | 2.9  |
| Rabalanakaia    | iP | 01C         |    |          | 320  | 2.9  |
| Sulphur Creek   | iP | 01.5D       |    |          | 320  | 2.9  |
| Honiara         | eP | 55          |    |          | 755  | 6.8  |
| Port Moresby    | eP | 58          |    |          | 780  | 7.0  |
| Charters Towers | eP | 28 45       |    |          | 1680 | 15.1 |
| Luganville      | eP | 58          |    |          | 1755 | 15.8 |
| Nouméa          | iP | 29 45C      |    |          | 2200 | 1.98 |
| Brisbane        | iP | 53.7        | iS | 33 48    | 2290 | 20.6 |
| Warramunga      | eP | 30 16       |    |          |      |      |
| Mundaring       | iP | 33 02.2C    |    |          |      |      |
| Dodaira         | eP | 28.1        |    |          | 4955 | 44.6 |

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|               |     |             |            |       |       |
|---------------|-----|-------------|------------|-------|-------|
| Séoul         | EP  | 14 34 0 9 3 |            | 5620  | 50.8  |
| Vladivostok   | EP  | 35          |            |       |       |
| Shillong      | IP  | 14          |            | 7555  | 68.0  |
| Oulan Bator   | IP  | 36 15       |            |       |       |
| Bodajbo       | IP  | 36          |            |       |       |
| Esen Boulak   | EP  | 47          |            |       |       |
| Tiksi         | EP  | 37 22       |            |       |       |
| New Delhi     | EP  | 31          |            | 9055  | 81.5  |
| Gilmore Creek | EP  | 35.3        |            | 9280  | 83.5  |
| College       | EP  | 39          |            | 9285  | 83.4  |
| Semipalatinsk | EP  | 47          |            |       |       |
| Talgar        | IP  | 49          |            |       |       |
| Frounze       | EP  | 58          |            |       |       |
| Qizetta       | IP  | 38 16.2C    |            | 10055 | 90.5  |
| La Paz        | PKP | 44 29.5     |            | 14735 | 132.6 |
| Penas         | PKP | 31.6        |            | 14710 | 132.4 |
| Tamanrasset   | PKP | 53          |            | 18155 | 145.4 |
| Ifrane        | PKP | 55          | e 14 45 15 | 18320 | 146.9 |

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Région de la Nouvelle Bretagne

6° 6'S 152° 8'E h = 33km H = 14<sup>h</sup>37<sup>mn</sup>26<sup>s</sup> (CGS)

|                 |     |             |    |          |      |      |
|-----------------|-----|-------------|----|----------|------|------|
| Keravat         | EP  | 14 38 02.5D | 1S | 14 38 35 | 255  | 2.3  |
| Rabaul          | IP  | 03.3D       | 1S | 37       | 265  | 2.4  |
| Rabalanakala    | ZP  | 03.5D       |    |          | 265  | 2.4  |
| Sulphur Creek   | P   | 05.2        |    |          | 265  | 2.4  |
| Port Moresby    | EP  | 59          | eS | 40 17    | 700  | 6.3  |
| Charters Towers | EP  | 40 56       |    |          | 1855 | 14.9 |
| Wichita M.      | EPP | 56 26.3     |    |          |      |      |

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Au large Est de la Préfecture de Miyazaki (Japon)

32° 27'N, 132° 18'E h = 10km H = 14<sup>h</sup>47<sup>mn</sup>13.2<sup>s</sup> (JMA)

M = 4.1 (JMA)

|           |    |            |    |            |     |     |
|-----------|----|------------|----|------------|-----|-----|
| Noheoka   | EP | 14 47 25.5 | S  | 14 47 33.8 | 60  | 0.5 |
| Ashizuri  | P  | 27.6       | 1S | 36         | 73  | 0.7 |
| Uwajima   | EP | 28.4       | eS | 36.2       | 89  | 0.8 |
| Miyazaki  | P  | 32         | S  | 45.4       | 101 | 0.9 |
| Oita      | EP | 33.1       | S  | 46.5       | 107 | 1.0 |
| Kumamoto  | EP | 39.9       | S  | 48 00.9    | 154 | 1.4 |
| Kochi     | EP | 48.9       | 1S | 04.1       | 160 | 1.4 |
| Kagoshima | eS | 48 00      | e  | 10         | 168 | 1.5 |

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Région de la Nouvelle Bretagne

6°8S, 155°7E h = 21km H = 14h49m01s (CGS)

M = 5.4 (CGS, Shillong)

|                 |      |             |    |          |        |       |
|-----------------|------|-------------|----|----------|--------|-------|
| Keravat         | iP   | 14 49 47.5D | iS | 14 50 20 | 320    | 2.9   |
| Sulphur Creek   | iP   | 47.6C       |    |          | 320    | 2.9   |
| Rabaul          | iP   | 48C         | iS | 23.5     | 335    | 3.0   |
| Rabalanaka ia   | iP   | 48          |    |          | 320    | 2.9   |
| Port Moresby    | eP   | 50 45       | eS | 52 02    | 780    | 7.0   |
| Charters Towers | iP   | 52 40       |    |          | 1680   | 15.1  |
| Brisbane        | eP   | 53 40.2     |    |          | 2280   | 20.5  |
| Warramunga      | eP   | 5 5 03      |    |          |        |       |
| Shillong        | iP   | 15 00 01    |    |          | 7555   | 68.0  |
| Quetta          | eP   | 02 03.3C    |    |          | 100 55 | 9.5   |
| Mould Bay       | eP   | 28          |    |          | 10645  | 9.8   |
| La Paz          | ePKP | 08 18       |    |          |        |       |
| Penas           | ePKP | 18.6        |    |          | 147 10 | 132.4 |
| Tamanrasset     | PKP  | 42          |    |          | 16155  | 145.4 |

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Hondo (Japon)

37°0N, 139°7E h = 130km H = 15h38m15.1s (CGS)

36°56'N, 140°01'E h = 120km H = 15h38m16.3s (JMA)

M = 4.7 (Palmer, Eureka), 4.5 (CGS Blue M, Wichita M), 4.3 (Uinta Basin, Tonto Forest)

|               |    |            |    |            |       |      |
|---------------|----|------------|----|------------|-------|------|
| Kakioka       | iP | 15 38 35.3 | iS | 15 38 49.6 |       |      |
| Mt Tsukuba    | iP | 36.6       |    |            | 100   | 0.9  |
| Maebashi      | eP | 38.9       | iS | 56         |       |      |
| Dodaira       | iP | 40.3       | eS | 59         | 120   | 1.1  |
| Tokyo         | eP | 44         | eS | 39 03      |       |      |
| Matsushiro    | iP | 44.3       | iS | 06         |       |      |
| Kiyosumi      | iP | 46.9       |    |            | 200   | 1.8  |
| Kofu          | eP | 48.3       | eS | 10.8       |       |      |
| Yokohama      | eP | 50.1       |    | 05.1       |       |      |
| Mizusawa      | eP | 55.8       | eS | 24.7       |       |      |
| Niigati       | e  | 39 04      |    |            |       |      |
| Oishiyama     | eP | 25.1       |    |            | 510   | 4.6  |
| Séoul         | eP | 40 38.1    |    |            | 1135  | 10.2 |
| Sparrevohn    | iP | 46 30.4    |    |            | 5145  | 46.3 |
| Palmer        | eP | 52.4       |    |            | 5490  | 49.4 |
| College       | iP | 56.4       |    |            | 5535  | 59.8 |
| Gilmore Creek | eP | 57.1       |    |            | 5545  | 49.9 |
| Pedro Dome    | iP | 57.6       |    |            | 5545  | 49.9 |
| Mould Bay     | eP | 47 48      |    |            | 6320  | 56.9 |
| Kajaani       | eP | 48 56      |    |            |       |      |
| Uméa          | iP | 49 07.8    |    |            |       |      |
| Blue M.       | eP | 31.5       |    |            | 8100  | 72.9 |
| Eureka        | iP | 54.8       |    |            | 8545  | 76.9 |
| Woody         | iP | 55         |    |            | 8590  | 77.3 |
| Dugway        | eP | 50 02.6    |    |            | 87 10 | 78.4 |
| Uinta Basin   | eP | 12.8       |    |            | 89 10 | 80.2 |
| Tonto Forest  | eP | 28         |    |            | 9235  | 83.1 |

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|            |      |            |  |       |       |
|------------|------|------------|--|-------|-------|
| Wichita M. | eP   | 15 51 02.7 |  | 10045 | 90.4  |
| Penas      | ePKP | 57 43.2    |  | 16400 | 147.6 |
| La Paz     | ePKP | 45         |  |       |       |

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Iran occidental

H = 16h 10.7mm

|            |    |          |    |          |
|------------|----|----------|----|----------|
| Tabriz     | eP | 16 11 16 | iS | 16 11 47 |
| Kermanshah | eP | 19       |    |          |
| Téhéran    | eP | 12 36    |    |          |
| Chiraz     | eP | (45)     |    |          |

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Zambie

15° 5S, 28° 7E

H = 16h 51mm 02S (Bulawayo)

M = 2.2 (Bulawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Broken Hill | ePn | 16 51 35 | eSg | 16 52 05 |
| Karoi       | ePn | 49       | eSn | 36       |
| Bulawayo    | ePn | 52 16    | eSg | 53 36    |

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Région de la Nouvelle Bretagne

H = 17h 01mm 07S

M = 5.0 (Rabaul)

|               |    |          |    |          |
|---------------|----|----------|----|----------|
| Keravat       | iP | 17 01 46 |    |          |
| Rabaul        | iP | 48       | iS | 17 02 19 |
| Sulphur Creek | iP | 48.2     |    |          |
| Rabalanakaia  | iP | 48.5D    |    |          |
| Port Moresby  | eP | 02 25    | eS | 03 20    |
| Warramunga    | eP | 05 51.5  |    |          |

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Au Nord du Chili

20° 7S, 68° 6W

h = 101km

H = 18h 41mm 57S (CGS)

M = 4.7 (Cumberland Pl), 4.4 (Blue M), 4.3 (CGS, Uinta Basin),  
4.2 (Digway), 4.1 (Tonto Forest).

|               |    |          |      |            |      |      |
|---------------|----|----------|------|------------|------|------|
| Antofagasta   | eP | 18 42 43 | i(S) | 18 43 10.8 |      |      |
| Cochabamba    | eP | 43 00.7  |      |            |      |      |
| La Paz        | P  | 03.6     | i    | 44 28      | 490  | 4.4  |
| Penas         | P  | 05.9     |      | 36         | 510  | 4.6  |
| Arequipa      | iP | 06.3     | iS   | 43 58.3    | 510  | 4.6  |
| Cumberland Pl | eP | 51 39.3  |      |            | 6455 | 58.1 |
| Albuquerque   | eP | 52 31.5  | e    | 53 20      | 7230 | 65.5 |
| Tucson        | eP | 34.5     |      |            | 7320 | 65.9 |
| Tonto Forest  | eP | 45.2     |      |            | 7510 | 67.6 |
| Uinta Basin   | eP | 53 07.7  |      |            | 7920 | 71.3 |
| China Lake    | P  | 15       | (SP) | 40         | 8035 | 72.3 |
| Digway        | eP | 16.8     |      |            | 8090 | 72.8 |
| Blue M.       | eP | 48.3     |      |            | 8720 | 78.5 |



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Sud de l'Alaska

| 61°N, 147°W     |    | h = 33 <sup>km</sup> | H = 19 <sup>h</sup> 50 <sup>mn</sup> 55 <sup>s</sup> (CGS) |          |     |     |
|-----------------|----|----------------------|--|----------|-----|-----|
| Mts Sheep Creek | iP | 20 00 04.5           |  |          | 65  | 0.8 |
| Palmer          | eP | 12.7                 | eS   | 20 00 29 | 110 | 1.0 |
| Black Rapids    | iP | 32.6                 |  |          | 265 | 2.4 |
| College         | eP | 51.5                 | eL   | 01 34    | 410 | 3.7 |
| Gilmore Creek   | eP | 52.8                 |  |          | 420 | 3.8 |
| Pedro Dome      | eP | 53.8                 |  |          | 420 | 3.8 |
| Sparrevohn      | iP | 55.7                 |  |          | 455 | 4.1 |

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Région de la Nouvelle Bretagne

| H = 20 <sup>h</sup> 43 <sup>mn</sup> 32.1 <sup>s</sup> |      | M = 4.6 (Rabaul) |    |          |  |  |
|--|------|------------------|----|----------|--|--|
| Keravat  | iP   | 20 44 08D        | iS | 20 44 40 |  |  |
| Rabalanakaia   | iP   | 08.5             |    |          |  |  |
| Rabaul   | iP   | 08.5D            | iS | 44.2     |  |  |
| Port Moresby   | eP   | 45 04            | eS | 6 21     |  |  |
| Honiara  | e(P) | (41)             |    |          |  |  |
| Charters Towers  | e    | 46 59            |    |          |  |  |
| Brisbane   | i(P) | 48 00.6          |    |          |  |  |
| Warramunga   | eP   | 23.5             |    |          |  |  |
| Tamanrasset  | e    | 21 02 59         |    |          |  |  |

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Nouvelles Hébrides (Ile Espiritu Santo)

| 15°0S, 167°7E    |     | H = 21 <sup>h</sup> 10 <sup>mn</sup> 10 <sup>s</sup> (Nouméa) |      |          |  |  |
|------------------|-----|---|------|----------|--|--|
| M = 4.5 (Nouméa) |     |   |      |          |  |  |
| Luganville       | iP  | 21 10 26.6C   | iS   | 21 10 37 |  |  |
| Lonoro fe        | eIP | 26.8  | iS   | 39       |  |  |
| Port Vila        | eIP | 11 51.3   | iS   | 12 25    |  |  |
| Nouméa           | iP  | 53  | i(S) | 14 12    |  |  |

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Sud de l'Alaska

| 60°N, 155°W     |     | h = 137 <sup>km</sup> | H = 21 <sup>h</sup> 42 <sup>mn</sup> 01.3 (CGS) |            |      |      |
|-----------------|-----|-----------------------|---|------------|------|------|
| Big Mountain    | iP  | 21 42 29.4            |   |            | 155  | 1.4  |
| Sparrevohn      | iP  | 30.9                  |   |            | 165  | 1.5  |
| Palmer          | eP  | 39.5                  | eS  | 21 43 08.7 | 255  | 2.3  |
| Mts Sheep Creek | eP  | 50.8                  |   |            | 355  | 3.2  |
| Black Rapids    | iP  | 43 12.6               |   |            | 520  | 4.7  |
| Tanana          | eP  | 15.6                  |   |            | 555  | 5.0  |
| College         | eP  | 18                    | eL  | 44 15.5    | 580  | 5.2  |
| Gilmore Creek   | eP  | 19.7                  |   |            | 590  | 5.3  |
| Pedro Dome      | eP  | 20.2                  |   |            | 600  | 5.4  |
| Uinta Basin     | ePP | 48 51.4               |   |            | 3700 | 33.3 |

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Mer Méditerranée

| 35°5N, 22°5E |  | h = 44 <sup>km</sup> | H = 23 <sup>h</sup> 15 <sup>mn</sup> 42.2 <sup>s</sup> (CGS) |
|--------------|--|----------------------|--|
| 35°4N, 22°5E |  |                      | H = 23 <sup>h</sup> 15 <sup>mn</sup> 39 <sup>s</sup> (BCIS)  |

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35° 2N, 22° 3E

H = 23<sup>h</sup>15<sup>m</sup>38<sup>s</sup> (URSS)

35° 5N, 22° 5E

H = 23<sup>h</sup>15<sup>m</sup>41<sup>s</sup> (Athènes)

M = 5.1 (New Delhi), 4.8 (Wichita M), 4.7 (CGS), 4.4 (Blue M),  
4.3 (Athènes).

|                |      |           |      |            |      |       |
|----------------|------|-----------|------|------------|------|-------|
| Vamos          | eiPn | 23 16 08D | iSn  | 23 16 27.5 | 155  | 1.4   |
| Athènes        | epn  | 24.9      | iS   | 17 04.5    | 290  | 2.6   |
| Valsamata      | eiPn | 30.9C     | iSn  | 06.8       | 340  | 3.1   |
| Rhodes         | epn  | 52.1      | eiSn | 44         | 525  | 4.7   |
| Ciné           | ipn  | 55        |      |            | 550  | 5.0   |
| Paraskevi      | eiPn | 55.2D     |      |            | 535  | 4.8   |
| Sofia          | ep   | 17 28.9   | eS   | 19 04.5    | 800  | 7.2   |
| Istanbul Kand  | ip   | 33.1      |      |            | 845  | 7.6   |
| Helwan         | ep   | 54        |      |            | 1035 | 9.3   |
| Campulung      | P    | 18 11     |      |            | 1105 | 9.9   |
| Messina LNG    | iSn  | 20.4      |      |            | 685  | 6.2   |
| Vrincioaia     | P    | 22        |      |            | 1205 | 10.8  |
| Srobarova      | eiP  | 40        |      |            | 1410 | 12.7  |
| Wien           | epn  | 50        |      |            | 1505 | 13.5  |
| Niedzica       | ep   | 59        |      |            | 1555 | 14.0  |
| Krakow         | ep   | 19 08     |      |            | 1630 | 14.7  |
| Kasperské Hory | P    | 13.5      |      |            | 1680 | 15.1  |
| Prthonice      | ep   | 18.5      |      |            | 1735 | 15.6  |
| Lanslevillard  | eiP  | 19.1      | ei   | 1 9 21.7   | 1705 | 15.4  |
| Roselend       | ip   | 22        | e    | 26         | 1750 | 15.8  |
| Erlangen       | eiP  | 33.5C     |      |            | 1825 | 16.4  |
| Moxa           | ep   | 40        |      |            | 1 00 | 17.1  |
| Collm          | ep   | 42        |      |            | 1915 | 17.2  |
| Bakouriani     | ep   | 43        |      |            | 1950 | 17.5  |
| Les puteaux    | ep   | 50        |      |            | 2000 | 18.0  |
| Sommée Lormes  | ep   | 53        |      |            | 2020 | 18.2  |
| St Saulge      | ep   | 53        |      |            | 2035 | 18.3  |
| Tabriz         | ep   | 20 04     |      |            | 2140 | 19.2  |
| Kir cvabad     | P    | 06        |      |            | 2160 | 19.4  |
| Tamanrasset    | ep   | 0 9       |      |            | 2160 | 1 9 5 |
| Karlskrona     | ip   | 23.9      |      |            | 2355 | 21.2  |
| Toledo         | ep   | 32.5      |      |            | 2380 | 21.4  |
| Moskva         | P    | 42D       | eS   | 44 48      | 2525 | 22.7  |
| Ifrane         | P    | 43        |      |            | 2535 | 22.8  |
| Gotteorg       | ep   | 46        |      |            | 2590 | 23.3  |
| Téhéran        | ep   | 47        |      |            | 2605 | 23.5  |
| Uppsala        | ip   | 58.5      | i    | 21 07.2    | 2735 | 24.6  |
| Averroes       | P    | 21 02.5   | M    | 26         | 2750 | 24.7  |
| Nurmijaervi    | ep   | 03        |      |            | 2790 | 25.1  |
| Uddeholm       | ep   | 07        |      |            | 2810 | 25.3  |
| Kongsberg      | ep   | 0 9       |      |            | 2840 | 25.6  |
| Chiraz         | ip   | 13.1C     |      |            | 2900 | 26.1  |
| Lillehammer    | ep   | 1 9       |      |            | 2955 | 26.6  |
| Uméa           | ip   | 33.5      |      |            | 3155 | 28.4  |
| Kajaani        | ip   | 37.8      |      |            | 3200 | 28.8  |
| Skalstugan     | ep   | 38        |      |            | 3200 | 28.8  |
| Oulu           | ep   | 44        |      |            | 3300 | 29.7  |
| Addis Ababa    | ep   | 55        |      |            | 3360 | 30.2  |

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|                |       |                         |     |            |       |      |
|----------------|-------|-------------------------|-----|------------|-------|------|
| Bangui         | iP    | 23 21 59.4 <sup>D</sup> | 1PP | 23 23 02.3 | 3465  | 31.2 |
| Kiruna         | eP    | 22 05                   |     |            | 3600  | 32.4 |
| Sočankylä      | i(P)  | 15                      |     |            | 3555  | 32.0 |
| Sverdlovsk     | iP    | 16                      |     |            | 3700  | 33.3 |
| Trieste        | eSgSg | 23                      |     |            | 1350  | 12.2 |
| Kevo           | eP    | 26                      |     |            | 3820  | 34.4 |
| Quetta         | iP    | 54.4                    |     |            | 4165  | 37.5 |
| Garm           | iP    | 57                      |     |            | 4210  | 37.9 |
| Lamto          | P     | 23 03                   |     |            | 4290  | 38.6 |
| Butare         | iP    | 04.1                    |     |            | 4280  | 38.5 |
| Talgar         | eP    | 34                      |     |            | 4720  | 42.5 |
| Semipalatinsk  | eP    | 43.8                    |     |            | 4855  | 43.7 |
| New Delhi      | iP    | 24 06.3                 |     |            | 5180  | 46.6 |
| Broken Hill    | eP    | 36                      |     |            | 5555  | 50.0 |
| Karoi          | eIP   | 53 <sup>C/D</sup>       |     |            | 5835  | 52.5 |
| Bulawayo       | iP    | 25 16 <sup>D</sup>      |     |            | 6180  | 55.6 |
| Shillong       | iP    | 42                      |     |            | 6610  | 59.5 |
| Bodajbo        | iP    | 54.5 <sup>C</sup>       |     |            | 6845  | 61.6 |
| Tiksi          | eP    | 55                      |     |            | 6845  | 61.6 |
| Yakoutsk       | eP    | 26 29                   |     |            | 7410  | 66.7 |
| Cumberland Pl. | eP    | 28 01.4                 |     |            | 9180  | 82.6 |
| Edmonton       | eP    | 15                      |     |            | 9300  | 83.7 |
| Fort St. James | eP    | 21                      |     |            | 9550  | 86.0 |
| Hungry Horse   | eP    | 29.6                    |     |            | 9765  | 87.9 |
| Blue M.        | eP    | 48.5                    |     |            | 10235 | 92.1 |
| Wichita M.     | eP    | 50                      |     |            | 10120 | 91.1 |
| Uinta Basin    | e(P)  | 29 02                   |     |            | 10290 | 92.6 |

inscrit à Istanbul UTI

I.- 10 Janvier

Nouvelles Hébrides (Ile Tanna)

19° 1 S ; 168° 6 E ; H = 01h.30<sup>mn</sup>37<sup>s.</sup> ; M. = 3.5(Nouméa)

|            |     |                   |    |            |
|------------|-----|-------------------|----|------------|
| Port Vila  | iP  | 01 (3) 1 02.4     | 1S | 01(3) 1 21 |
| Luganville | eIP | 36.4              | 1S | 32 22.5    |
| Nouméa     | iP  | 38.2 <sup>C</sup> | 1S | 21         |

II.- 10 Janvier

Région Sud de l'Océan Pacifique

35° 9 S ; 103° 9 W ; h = 33<sup>km</sup> ; H = 01h.46<sup>mn</sup>42.6<sup>s.</sup> (CGS)

M. = 6.0(Caracas) ; 5.2(La Paz) ; 5.1(Arequipa) ; 5.0(Penas - Uinta Basin) ;  
4.9(CGS) ; 4.8(Burèka) ; 4.7(Blue M. - Digway - Wichita M.) ;  
4.6(Tonto Forest) ; 4.4(Cumberland Pl.).

|          |     |            |      |      |
|----------|-----|------------|------|------|
| Arequipa | eIP | 01 53 30.5 | 3855 | 34.7 |
| Huancayo | eP  | 36.5       | 3900 | 35.1 |
| Penas    | P   | 52.4       | 4120 | 37.1 |
| La Paz   | P   | 53.2       | 4130 | 37.2 |

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|                |    |            |               |      |      |
|----------------|----|------------|---------------|------|------|
| Cochabamba     | P  | 01 54 01.2 |               |      |      |
| Eyrd           | eP | 53.6       |               | 4970 | 44.7 |
| South Pole     | eP | 56 07.5    |               | 6030 | 53.4 |
| Caracas        | eP | 30.0       | e(S) 02 04 44 | 6420 | 57.8 |
| Tucson         | eP | 57 30.5    |               | 7570 | 68.1 |
| Albuquerque    | eP | 53.0       |               | 7830 | 70.5 |
| Tonto Forest   | eP | 53.7       | ePcP 58 09.0  | 7790 | 70.1 |
| Wichita M      | eP | 53.8       | ePcP 22.0     | 7820 | 70.4 |
| Cumberland Pl. | eP | 58 13.0    |               | 8120 | 73.1 |
| Priest         | eP | 13.6D      |               | 8145 | 73.3 |
| Mt. Hamilton   | eP | 15.8       |               | 8300 | 74.7 |
| Jamestown      | eP | 22.7D      |               | 8330 | 75.0 |
| Golden         | eP | 23.5       |               | 8355 | 75.2 |
| Eureka         | iP | 27.3       |               | 8420 | 75.8 |
| Dugway         | eP | 28.4       |               | 8455 | 76.1 |
| Uinta Basin    | eP | 28.5       |               | 8445 | 76.0 |
| Blue M.        | eP | 36.3       |               | 9030 | 81.3 |
| Butte          | eP | 59 00.7    |               | 9100 | 81.9 |
| Nexport        | eP | 13.0       |               | 9400 | 84.6 |
| Nordman        | eP | 14.0       |               | 9430 | 84.9 |
| Hungry Horse   | eP | 15.8       |               | 9370 | 84.3 |

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Iles aux Renards - Aléoutiennes

52°3 N ; 171°2 W ; h = 53km ; H = 02h.26mn20.5s. (CGS)

M. = 4.5(Wichita M. - Uinta Basin); 4.4(CGS - Tonto Forest - Dugway);  
4.3(North Pole)

|                 |    |            |    |            |      |      |
|-----------------|----|------------|----|------------|------|------|
| Adak            | iP | 02 29 11.2 | IS | 02 29 52.0 | 370  | 3.3  |
| Big Mountain    | eP | 31 05.0    |    |            | 1270 | 11.4 |
| Palmer          | eP | 53.1       |    |            | 1680 | 15.1 |
| Mts Sheep Creek | eP | 32 03.0    |    |            | 1780 | 16.0 |
| College         | eP | 18.0       |    |            | 1930 | 17.4 |
| Black Rapids    | eP | 22.0       |    |            | 1930 | 17.4 |
| Gilmore Creek   | iP | 22.1       |    |            | 1955 | 17.6 |
| North Pole      | eP | 34 34.8    |    |            | 3445 | 31.0 |
| Mould Bay       | eP | 35.0       |    |            | 3445 | 31.0 |
| Newport         | eP | 35 02.0    |    |            | 3790 | 34.1 |
| Nordman         | eP | 02.0       |    |            | 3790 | 34.1 |
| Edmonton        | eP | 03.0       |    |            | 3800 | 34.2 |
| Blue M.         | eP | 16.0       |    |            | 3970 | 35.7 |
| Hungry Horse    | eP | 18.1       |    |            | 3990 | 35.9 |
| Mt. Tsukuba     | eP | 31.7       |    |            | 4180 | 37.6 |
| Dodaira         | eP | 38.4       |    |            | 4255 | 38.3 |
| Matsushiro      | eP | 40         |    |            |      |      |
| Eureka          | eP | 47.0       |    |            | 4400 | 39.6 |
| Dugway          | eP | 36 01.0    |    |            | 4570 | 41.1 |

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|              |    |            |  |      |      |
|--------------|----|------------|--|------|------|
| Oishiyama    | eP | 02 36 07.1 |  | 4655 | 41.9 |
| Uinta Basin  | eP | 16.8       |  | 4780 | 43.0 |
| Glamis       | P  | 27.0       |  | 4930 | 44.4 |
| Tonto Forest | eP | 39.3       |  | 5090 | 45.8 |
| Tucson       | eP | 51.0       |  | 5270 | 47.4 |
| Wichita M.   | eP | 37 34.1    |  | 5910 | 53.2 |
| Kajaani      | iP | 38 43.6D   |  |      |      |
| NurmiJaerwi  | eP | 39 08      |  | 7420 | 66.8 |
| Qietta       | eP | 40 44.3C   |  |      |      |
| Warramunga   | eP | 56.5       |  |      |      |

Inscrit à Bangui.

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Nouvelles Hébrides (Ile Vaté)

H = 02h.49mn47s. (Nouméa)

|            |     |             |    |          |
|------------|-----|-------------|----|----------|
| Port Vila  | iP  | 02 49 57.7D | iS | 02 50 05 |
| Lonorore   | eiP | 50 23.9     |    |          |
| Luganville | eiP | 29.8        |    |          |

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Nouvelles Hébrides (Ile Espiritu Santo)

15°0 S ; 167°5 E ; H = 04h.14mn20s. ; M. = 3.4 (Nouméa)

|            |     |             |    |          |
|------------|-----|-------------|----|----------|
| Luganville | iP  | 04 14 37.9C | iS | 04 14 52 |
| Lonorore   | iP  | 42.4(C)     | iS | 15 02    |
| Port Vila  | eiP | 15 04.5     | iS | 38.5     |
| Nouméa     | iP  | 16 05.9(D)  | iS | 17 27    |

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Witwatersrand.

26°6 S ; 27°3 E ; H = 04h.47mn39s. ; M. = 3.2 (Bulawayo)

|          |     |           |     |          |
|----------|-----|-----------|-----|----------|
| Bulawayo | iPn | 04 49 13C | iSg | 04 50 55 |
| Karoi    | iPn | 59C       | eSn | 51 42    |

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Prs de la cote, région Nord du Chili

27°8 S ; 70°8 W ; h = 33km ; H = 05h.54mn19.1s. (CGS)

M. = 5.3 (Cumberland Pl.) ; 5.2 (La Paz) ; 5.0 (Penas) ; 4.8 (CGS - Wichita M.) ;  
4.6 (Uinta Basin - Dugway) ; 4.4 (Blue M.) ; 4.3 (Tonto Forest)

|             |    |             |   |            |           |
|-------------|----|-------------|---|------------|-----------|
| Antofagasta | iP | 05 55 20.1C |   | 455        | 4.1       |
| Peldehue    | eP | 40.5        |   |            |           |
| Arequipa    | iP | 56 58.1     | i | 05 57 49.7 | 1255 11.3 |

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|                |      |            |        |            |       |       |  |
|----------------|------|------------|--------|------------|-------|-------|--|
| Cochabamba     | P    | 05 56 59.7 |        |            |       |       |  |
| La Paz         | P    | 57 03.8    | e(S)   | 05 59 49.0 | 1280  | 11.5  |  |
| Penas          | P    | 05.8       | (S)    | 55.0       | 1390  | 11.7  |  |
| Huancayo       | eP   | 58 12.6    |        |            | 1800  | 16.2  |  |
| Bogota         | eP   | 06 00 50.0 | eS     | 06 06 10.0 | 3800  | 32.4  |  |
| Byrd           | P    | 03 55.4    |        |            | 6220  | 56.0  |  |
| South Pole     | eP   | 04 39.5    |        |            | 6930  | 62.4  |  |
| Cumberland Pl. | eP   | 54.4       |        |            | 7180  | 64.6  |  |
| Wichita M      | eP   | 05 12.7    | ePcP   | 05 40.6    | 7500  | 67.5  |  |
| Lubbock        | eP   | 15.5       |        |            | 7530  | 67.8  |  |
| Tucson         | eP   | 35.2       |        |            | 7870  | 70.8  |  |
| Albuquerque    | eP   | 35.8       |        |            | 7880  | 70.9  |  |
| Lamto          | P    | 42.0       |        |            | 7990  | 71.9  |  |
| Ton to Forest  | eP   | 46.0       | e(PcL) | 54.2       | 8080  | 72.7  |  |
| Glamis         | P    | 51.0       | SP     | 06 00.0    | 8170  | 73.5  |  |
| Golden         | eP   | 54.5       |        |            | 8280  | 74.5  |  |
| Uinta Basin    | eP   | 06 09.3    |        |            | 8530  | 76.8  |  |
| Sa da Bandeira | IP   | 10.0       |        |            | 8700  | 78.3  |  |
| Dugway         | eP   | 17.1       |        |            | 8680  | 78.1  |  |
| Butte          | eP   | 41.3       |        |            | 9190  | 82.7  |  |
| Blue M.        | eP   | 46.7       |        |            | 9310  | 83.8  |  |
| Edmonton       | eP   | 07 09.0C   |        |            | 9870  | 88.8  |  |
| Bulawayo       | eP   | 12         |        |            | 9855  | 88.7  |  |
| Karoi          | IP   | 23         |        |            | 10120 | 91.1  |  |
| Bangui         | IP   | 25.7C      | IP     | 07 34.6    |       |       |  |
| Warramunga     | ePKP | 13 20.5    |        |            | 14070 | 126.6 |  |
| Quetta         | PKP  | 48.0       |        |            | 15900 | 143.1 |  |
| Matsushiro     | ePKP | 14 19      |        |            |       |       |  |

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Grèce

38° 3 N ; 23° 4 E ; H = 06h.44m56s. ; M. = 3.5(Athènes)

Ressenti en Boétie (IV à Alicartos, Chalia) en Attique (IV à Ano Liosia)  
 et dans l'île d'Eubée (IV à Aphrati). Surface macroséismique 5.000km<sup>2</sup>  
 M<sub>0</sub> = 3.8

|           |      |             |      |            |     |     |
|-----------|------|-------------|------|------------|-----|-----|
| Athènes   | iPg  | 06 45 04.1C | iSg  | 06 45 09.3 | 40  | 0.4 |
| Patras    | eIPg | 22.7C       |      |            | 150 | 1.4 |
| Valsamata | dPn  | 36.2        | eiSb | 46 08.2    | 260 | 2.3 |
| Paraskevi | ePn  | 37.6        | eiSb | 11.0       | 270 | 2.4 |
| Vamos     | ePn  | 45.0        | iSb  | 24.5       | 325 | 2.9 |
| Ciné      | IP   | 46 00       | e(S) | 47 08      |     |     |
| Rhodes    | ePn  | 03.4        |      |            | 465 | 4.2 |
| Sofia     | eS   | 47 16.2     |      |            |     |     |

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Cote Ouest de la Norvège

Vers 63°-N; 7° 1/2 E; près de Kristiansand et Molde(Uppsala)

|             |     |            |  |  |  |
|-------------|-----|------------|--|--|--|
| Lillehammer | eP  | 06 58 03   |  |  |  |
| Skalstugan  | iSg | 19·5       |  |  |  |
| Uddeholm    | iSg | 59 14·1    |  |  |  |
| Kiruna      | iSg | 07 00 57·7 |  |  |  |

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Californie Centrale (U.S.A.)

37° 8 N ; 122° 6 W ; h ≅ 16km ; H = 07h·51<sup>mn</sup>22·5S·(CGS)  
37° 46' 5N ; 122° 35' 0 W ; M. = 2·5(Berkeley)

|              |     |            |    |            |     |     |
|--------------|-----|------------|----|------------|-----|-----|
| Kentfield    | ePg | 07 51 28·1 |    |            | 20  | 0·2 |
| Castle Rock  | iP  | 35·8       | iS | 07 51 45·5 | 70  | 0·6 |
| Holy Cross   | iP  | 41·6       | iS | 57·2       | 110 | 1·0 |
| San Luis Dam | eP  | 44·3       | eS | 52 04·1    | 145 | 1·3 |
| Store Canyon | eP  | 51·5       |    |            | 180 | 1·6 |

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Witwatersrand.

28° 4 S ; 27° 2 E ; H = 08h·34<sup>mn</sup>24S·; M. = 3·1(Bilawayo)

|          |     |          |     |          |  |  |
|----------|-----|----------|-----|----------|--|--|
| Bilawayo | ePn | 08 35 57 | eSg | 08 37 39 |  |  |
| Karoi    | ePn | 36 43    | eSn | 38 27    |  |  |

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Région du Lac Mweru (Congo)

8° 3 S ; 28° 8 E ; H = 09h·01<sup>mn</sup>18S·; M. = 3·1(Bilawayo)

|             |     |          |     |          |  |  |
|-------------|-----|----------|-----|----------|--|--|
| Broken Hill | ePn | 09 02 49 | eSg | 09 04 28 |  |  |
| Karoi       | ePn | 03 21    | eSg | 05 33    |  |  |

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Ouest de la Nouvelle Guinée

2° 3 S ; 138° 7 E; h = 48km ; H = 09h·07<sup>mn</sup>13S·(CGS)

|              |    |          |    |            |      |      |
|--------------|----|----------|----|------------|------|------|
| Port Moresby | eP | 09 09 50 |    |            | 1220 | 11·0 |
| Darwin       | eP | 10 13·0  | eS | 09 12 35·0 | 1410 | 12·7 |
| Warramunga   | eP | 11 20·5  | e  | 14 33      | 2000 | 18·0 |

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|                 |     |            |       |       |
|-----------------|-----|------------|-------|-------|
| Charters Towers | 1P  | 09 11 35.1 | 2130  | 19.2  |
| Adélaïde        | eP  | 13 42      | 3610  | 32.5  |
| South Pole      | eP  | 19 56.7    | 9745  | 87.7  |
| Wichita M       | e   | 25 26.6    | 13100 | 117.9 |
| Penas           | PKP | 26 53.3    | 16380 | 147.4 |
| La Paz          | PKP | 57.0       | 16420 | 147.6 |

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Région des Iles Kermadec

29°2 S ; 177°6 W ; h = 64<sup>km</sup> ; H = 09h.31<sup>mn</sup>40.3<sup>s</sup>. (CGS)  
 29°4 S ; 177°4 W ; H = 09h.31<sup>mn</sup>36<sup>s</sup>. (URSS)

M. = 6.7 (Wellington); 5.8 (South Pole); 5.5 (Tonto Forest); 5.0 (CGS -  
 Wichita M.); 4.9 (Albuquerque); 4.8 (Uinta Basin); 4.7 (Mt. Tsukuba);  
 4.6 (Blue M.); 4.2 (Palmer).

|                   |    |          |                |           |
|-------------------|----|----------|----------------|-----------|
| Raoul Island      | 1P | 09 31 51 | 30             | 0.3       |
| Onerahi           | eP | 34 02    | 1050           | 9.4       |
| Karapiro          | eP | 09       | 1155           | 10.4      |
| Wellington        | eP | 50       | eS 09 37 05    | 1510 13.6 |
| Afiamaïu          | eP | 35 24    | eS 38 05       | 1790 16.1 |
| Nouméa            | 1P | 28.1C    | i 35.5         | 1770 15.9 |
| Port Vila         | 1P | 43.5C    |                | 1915 17.2 |
| Koumac            | 1P | 58.0C    |                | 2060 18.5 |
| Lonorore          | 1P | 59.6D    |                | 2075 18.7 |
| Monowai           | eP | 36 07    | eS 39 43       | 2255 20.3 |
| Luganville        | 1P | 08.8D    |                | 2175 19.6 |
| Brisbane          | 1P | 37 12.2  |                | 2900 26.1 |
| Hiniara           | eP | (32)     |                | 3200 28.8 |
| Canberra          | eP | 36       | e 44 05        | 3200 28.8 |
| Toolangi          | 1P | 38 01.5  | e 45 18.0      | 3530 31.8 |
| Charters Towers   | 1P | 20       | iS 43 49       | 3780 34.0 |
| Adelaide          | eP | 48       |                | 4130 37.2 |
| Warramunga        | eP | 39 45.5  |                | 4935 44.4 |
| Terre Adélie      | 1P | 53.2     |                | 5045 45.4 |
| Scott Base        | eP | 40 27    |                | 5480 49.3 |
| Darwin            | eP | 33.0     | e 35.0         | 5620 50.6 |
| Mundaring         | 1P | 41 14.3C |                | 6245 56.2 |
| Byrd              | P  | 15.4     | iDP 41 31.4    | 6230 56.1 |
| South Pole        | eP | 40.0     | e(S) 50 13.6   | 6780 61.0 |
| Mirny             | eP | 42 03.6  |                | 7045 63.4 |
| Kyosumi           | eP | 43 20.1  |                | 8380 75.4 |
| Mt Tsukuba        | eP | 24.0     |                | 8470 76.2 |
| Dodaira           | eP | 25.0     |                | 8500 76.5 |
| Matsushiro        | 1P | 30.4     |                | 8600 77.4 |
| Novo Lazarevskaya | 1P | 44D      | eS 53 45.5     | 8900 80.1 |
| Syowa             | 1P | 48.4     | i(SKS) 54 01.8 | 8710 78.4 |
| Pasadena          | 1P | 44 07    | eS 54.5 -      | 9380 84.4 |
| Jamestown         | eP | 14.0     | e 14 28.0      | 9500 85.5 |
| Tucson            | eP | 26.0     | e 43.6         | 9790 88.1 |
| Tonto Forest      | eP | 30.2     | eS 55 08.0     | 9880 88.9 |



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|                |                   |       |                   |                   |         |       |       |
|----------------|-------------------|-------|-------------------|-------------------|---------|-------|-------|
| Big Mountain   | eP                | 09 44 | 33.0              |                   |         | 10020 | 90.2  |
| Glen Canyon    | eP                |       | 37.2              | i                 | 09 44   | 54.0  | 90.3  |
| Dugway         | eP                |       | 40.3              |                   |         |       | 91.5  |
| Blue M.        | eP                |       | 42.2              |                   |         |       | 91.9  |
| Albuquerque    | eP                |       | 46.5              | e                 | 45 04.0 |       | 92.5  |
| Palmer         | eP                |       | 48.0              |                   |         |       | 93.3  |
| Uinta Basin    | eP                |       | 50.7              | eSKS <sub>1</sub> | 55 28.0 |       | 93.6  |
| Mt Sheep Creek | eP                |       | 52.0              |                   |         |       | 93.9  |
| Black Rapids   | eP                |       | 59.8              |                   |         |       | 95.7  |
| College        | eP                | 45    | 03.0              |                   |         |       | 96.6  |
| Gilmore Creek  | eP                |       | 03.3              |                   |         |       | 96.7  |
| Wichita M.     | eP                |       | 09.3              | e(S)              | 56 48   |       | 97.9  |
| Penas          | eP                |       | 14.8              |                   |         |       | 98.1  |
| La Paz         | eP                |       | 15                |                   |         |       | 98.2  |
| Mould Bay      | PKP               | 50    | 03.0              |                   |         |       | 111.1 |
| North pole     | PKP               |       | 03.6              |                   |         |       | 111.1 |
| Resolute       | PKP               |       | 15.0              |                   |         |       | 116.0 |
| Semipalatinsk  | ePKP <sub>1</sub> |       | 21.7              |                   |         |       | 119.4 |
| Frobisher      | PKP               |       | 31.0              |                   |         |       | 124.2 |
| Garm           | ePKP <sub>1</sub> |       | 33                |                   |         |       | 124.1 |
| Bilawayo       | ePKP              |       | 34                |                   |         |       | 124.8 |
| Kaioi          | iPKP              |       | 39 <sup>D</sup>   |                   |         |       | 127.2 |
| Broken Hill    | ePKP              |       | 45                |                   |         |       | 129.8 |
| Kevo           | ePKP              |       | 50                |                   |         |       | 137.0 |
| Sodankylae     | ePKPK             |       | 54                |                   |         |       | 139.1 |
| Oulu           | iPKP              |       | 58                |                   |         |       | 141.2 |
| Kiruna         | ePKP              | 51    | 00                |                   |         |       | 139.9 |
| Kajaani        | iPKP              |       | 00.7              |                   |         |       | 141.5 |
| Umea           | iPKP              |       | 04.0              |                   |         |       | 143.5 |
| Skalstugan     | iPKP              |       | 09.5              |                   |         |       | 145.0 |
| NurmiJaervi    | iPKP              |       | 10.6              |                   |         |       | 145.3 |
| Bakuriani      | ePKP <sub>1</sub> |       | 11.1              |                   |         |       | 144.8 |
| Uppsala        | iPKP              |       | 16.6              |                   |         |       | 147.6 |
| Lillehammer    | iPKP              |       | 18.0              |                   |         |       | 147.6 |
| Udden dm       | iPKP              |       | 18.3 <sup>C</sup> |                   |         |       | 148.2 |
| Kongsberg      | iPKP              |       | 21.3              |                   |         |       | 149.1 |
| Bangui         | iPKP <sub>1</sub> |       | 22.3              | iPP               | 09 55   | 14.3  | 151.0 |
| Goteborg       | iPKP              |       | 24.8 <sup>C</sup> |                   |         |       | 150.7 |
| Niedzica       | ePKP              |       | 26                |                   |         |       | 155.6 |
| Karlskrona     | iPKP              |       | 26.5              |                   |         |       | 151.5 |
| Oujgorod       | ePKP <sub>1</sub> |       | 36                |                   |         |       | 155.3 |
| Collm          | ePKP              |       | 40                | i                 | 51 56.5 |       | 156.5 |
| Tamanrasset    | iPKP              |       | 45 <sup>D</sup>   | e                 | 57 00   |       | 173.0 |
| Kasperské Hory | ePKP <sub>2</sub> | 52    | 06                |                   |         |       | 168.3 |
| Erlangen       | ePKP <sub>2</sub> |       | 09.4              |                   |         |       | 158.5 |
| Somme Lormes   | ePKP <sub>2</sub> |       | 21.2              |                   |         |       | 161.9 |
| St Saulge      | ePKP <sub>2</sub> |       | 21.6              |                   |         |       | 162.1 |
| Les Buteaux    | ePKP <sub>2</sub> |       | 21.6              |                   |         |       | 162.2 |
| Roselend       | ePKP <sub>2</sub> |       | 26.8              |                   |         |       | 163.2 |
| Lanslevillard  | ePKP <sub>2</sub> |       | 28                |                   |         |       | 163.5 |
| Monteynard     | ePKP <sub>2</sub> |       | 31                |                   |         |       | 164.1 |

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Région de la Nouvelle Bretagne

H = 09<sup>h</sup>56<sup>m</sup>33<sup>s</sup> M = 4.5 (Rabaul)

|              |    |                         |    |            |
|--------------|----|-------------------------|----|------------|
| Keravat      | 1P | 09 56 55.5 <sup>D</sup> | 1S | 09 57 12.5 |
| Rabalanakaia | 1P | 55.6                    |    |            |
| Sulphur      | 1P | 55.8                    |    |            |
| Rabaul       | 1P | 56.6                    | 1S | 14.5       |

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Java

8° 3', 110° 6'E h = 220km H = 10<sup>h</sup>02<sup>m</sup>46.4<sup>s</sup> (CGS)  
10° 9'S, 110° 8'E H = 10<sup>h</sup>02<sup>m</sup>01<sup>s</sup> (URSS)

M = 6.1 (Adelaide), 5.4 (CGS), 5.1 (Port Moresby, Honiara,  
Bangui), 4.7 (Mt Tsukuba)

|                 |    |                         |      |            |            |
|-----------------|----|-------------------------|------|------------|------------|
| Meektharra      | 1P | 10 07 14.0 <sup>C</sup> |      |            |            |
| Mundaring       | 1P | 54.3 <sup>C</sup>       |      |            | 2830 25.5  |
| Kalgoorlie      | 1P | 57.0 <sup>C</sup>       |      |            |            |
| Warramunga      | eP | 08 04                   | e    | 10 12 18.5 | 2945 28.5  |
| Port Moresby    | 1P | 09 30.7                 | eSCP | 15 17.5    | 4030 36.3  |
| Charters Towers | 1P | 37                      |      |            | 4110 37.0  |
| Shillong        | 1P | 38.7                    |      |            | 4110 37.0  |
| Adelaide        | 1P | 46.1 <sup>D</sup>       |      |            | 4230 38.1  |
| Toolangi        | 1P | 10 35.0                 | e    | 12 20.0    | 4890 44.0  |
| Brisbane        | 1P | 41.2                    |      |            | 4990 44.9  |
| Canberra        | 1P | 43.3 <sup>C</sup>       |      |            | 5020 45.2  |
| Shiraki         | eP | 50.0                    |      |            | 5130 46.2  |
| Ofshiyama       | eP | 53.8                    |      |            | 5226 47.0  |
| Tasmania Uni    | 1P | 11 07.5 <sup>C</sup>    |      |            | 5370 48.3  |
| Honiara         | eP | 12.0                    |      |            | 5430 48.9  |
| Kyosumi         | eP | 21.7                    |      |            | 5590 50.3  |
| Matsushiro      | 1P | 22.7                    |      |            | 5600 50.4  |
| Dodaira         | 1P | 23.6                    |      |            | 5600 50.4  |
| Mt Tsukuba      | 1P | 27.4                    |      |            | 5680 51.1  |
| Vladivostok     | eP | 46                      |      |            |            |
| Semipalatinsk   | P  | 12 15.5 <sup>C</sup>    |      |            |            |
| Talgar          | eP | 21                      |      |            |            |
| Qietta          | eP | 49.0 <sup>D</sup>       |      |            |            |
| Bodajbo         | 1P | 13 02.5 <sup>D</sup>    |      |            |            |
| Yakoutsk        | 1P | 39 <sup>D</sup>         |      |            |            |
| Tiksi           | 1P | 14 27 <sup>D</sup>      |      |            |            |
| Karoi           | 1P | 29 <sup>C</sup>         | i    | 10 15 22   | 8820 79.4  |
| Bilawayo        | eP | 34                      | e    | 26         | 8950 80.1  |
| Broken Hill     | eP | 37                      | e    | 29         | 8970 80.7  |
| Nairobi         | 1P | 50.0                    |      |            |            |
| Ciné            | 1P | 15 12                   |      |            | 9800 88.2  |
| Byrd            | eP | 21.0                    | ePP  | 16 12.6    | 9955 89.6  |
| Bitare          | 1P | 29.1                    |      |            |            |
| Bangui          | 1P | 34.7 <sup>D</sup>       | 1PP  | 27.2       | 10200 92.5 |
| Kajaani         | 1P | 35.6                    |      |            |            |
| Qilu            | 1P | 40.1                    |      |            |            |

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|               |      |            |  |       |       |
|---------------|------|------------|--|-------|-------|
| Edmonton      | PKP  | 10 21 16.0 |  | 13520 | 121.7 |
| Blue M.       | PKP  | 19.9       |  | 13700 | 123.9 |
| Tonto Forest  | ePKP | 31.0       |  | 14755 | 132.8 |
| Uinta Basin   | PKP  | 36.0       |  | 14570 | 131.1 |
| Wichita M.    | PKP  | 54.2       |  | 15710 | 141.4 |
| Cumberland Pl | PKP  | 22 07.2    |  | 16420 | 147.8 |
| Oak Ridge     | PKP  | 08.4       |  | 16445 | 148.0 |
| La Paz        | ePKP | 15         |  |       |       |
| Penas         | ePKP | 15.2       |  |       |       |

inscrit à Presa Infiernillo.

XVII. 10 janvier  
Nouvelles Hébrides (île Espiritu Santo)

H = 10<sup>h</sup>11<sup>mn</sup>14<sup>s</sup> (Nouméa)

|            |     |             |    |            |
|------------|-----|-------------|----|------------|
| Luganville | iP  | 10 11 27.6D | iS | 10 11 36.5 |
| Lonorore   | iP  | 30.7        | iS | 38.4       |
| Port Vila  | eIP | 46.1        | iS | 12 11      |

XVIII. 10 janvier  
Ilot Mathew

22° 9S, 171° 1E

H = 10<sup>h</sup>18<sup>mn</sup>17<sup>s</sup>  
M = 3.9 (Nouméa)

|           |     |             |      |            |
|-----------|-----|-------------|------|------------|
| Nouméa    | iP  | 10 19 21.3C | iS   | 10 20 10.5 |
| Port Vila | eIP | 41.1        | i(S) | 46         |

XIX. 10 janvier  
Région sud de l'Iran

27° 4N, 56° 2E

h = 55km

H = 10<sup>h</sup>43<sup>mn</sup>48<sup>s</sup> (CGS)

M = 4.7 (Kajaani), 4.6 (CGS), 4.4 (Bangui)

|             |     |          |     |            |           |
|-------------|-----|----------|-----|------------|-----------|
| Chiraz      | eIP | 10 44 45 |     | 420        | 3.8       |
| Mashad      | eP  | 46 08    |     | 1030       | 9.3       |
| Qizetta     | eP  | 09.6C    |     | 1090       | 9.8       |
| Nurmijaervi | iP  | 51 13.0  |     | 4380       | 39.4      |
| Kajaani     | iP  | 26.0D    |     | 4555       | 41.0      |
| Oulu        | eP  | 37       |     |            |           |
| Roselend    | eP  | 39       | e   | 10 51 42.9 |           |
| Bangui      | iP  | 40.3C    | iPP | 53 17.3    | 4730 42.6 |
| Uddeholm    | iP  | 47.0     |     |            |           |
| Sodankylae  | eP  | 49       |     | 4370       | 43.8      |
| Kevo        | eP  | 52 04    |     | 5070       | 45.6      |
| Kiruna      | iP  | 04.9     |     |            |           |
| Tamanrasset | eP  | 08       |     | 5100       | 45.9      |
| Mould Bay   | eP  | 55 34.0  |     | 8500       | 76.5      |

inscrit à Toledo, Strasbourg, Trieste, Istanbul etc.

XX. 10 janvier  
Nord Ouest de la Russie (Explosion)?

H = 11<sup>h</sup>43<sup>mn</sup>53<sup>s</sup> (Uppsala)

|        |     |            |     |          |
|--------|-----|------------|-----|----------|
| Kiruna | iPn | 11 45 11.0 | eSn | 11 46 11 |
|--------|-----|------------|-----|----------|

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Uméa  
Skalstugan

1 Sg 11 47 19° 5  
e Sg 49 06

XXI. 10 janvier  
Région de la Nouvelle Guinée

|              |      |             |      |          |
|--------------|------|-------------|------|----------|
| Esa' Ala     | eP   | 12 45 07.5D | eS   | 12 46 00 |
| Lae          | iP   | 16.0        |      |          |
| Goroka       | eP   | 40          | eS   | 10       |
| Port Moresby | eP   | 48          | eS   | 36       |
| Keravat      | e(P) | 46 11       | e(S) | 47 21    |
| Rabaul       | eP   | 14.9D       |      |          |

XXII. 10 janvier  
Crête de l'Océan Pacifique Sud

53° 9'S, 132° 2'W h = 33<sup>3</sup>km H = 13<sup>h23</sup>mm 12'S (CGS)

M = 5.0 (Wichita M), 4.7 (CGS), 4.6 (Uinta Basin), 4.4  
(Tonto Forest).

|              |    |            |        |      |
|--------------|----|------------|--------|------|
| Byrd         | eP | 13 28 49.0 | 29 45  | 26.5 |
| South Pole   | eP | 30 12.5    | 40 30  | 36.3 |
| La Paz       | eP | 33 23.5    | 68 45  | 61.6 |
| Penas        | eP | 29.3       | 68 45  | 61.6 |
| Tucson       | eP | 36 00.2    | 97 70  | 87.9 |
| Tonto Forest | eP | 07.7       | 99 70  | 89.7 |
| Albuquerque  | eP | 0 8.8      | 10 145 | 91.3 |
| Wichita M.   | eP | 21.7       | 10 320 | 92.9 |
| Uinta Basin  | eP | 34.5       | 10 655 | 95.9 |

inscrit à Nat. Uni. Mexico.

XXIII. 10 janvier  
Crête de l'Océan Pacifique Sud

53° 7'S, 134° 3'W h = 3<sup>3</sup>km H = 13<sup>h42</sup>mm 06'S (CGS)

M = 5.0 (Wichita M), 4.9 (Uinta Basin), 4.8 (CGS), 4.7  
(Tonto Forest, Penas).

|                 |      |            |               |        |
|-----------------|------|------------|---------------|--------|
| Scott Base      | P    | 13 48 34.4 | 35 20         | 31.7   |
| South Pole      | eP   | 49 0 9.9   | 40 45         | 36.4   |
| La Paz          | eP   | 52 2 9.6   | 6 880         | 62.8   |
| Penas           | P    | 31.3       | 69 60         | 62.8   |
| Cochabamba      | P    | 33.2       |               |        |
| Charters Towers | iP   | 53 02.6    | 75 45         | 67.9   |
| Tucson          | eP   | 54 53.4    | 7 790         | 88.1   |
| Pasadena        | eP   | 55 00      | eL 12 14 18.9 | 98 45  |
| Tonto Forest    | eP   | 04.7       | eS 06 03      | 99 80  |
| Albuquerque     | eP   | 10.0       |               | 10 170 |
| Wichita M.      | eP   | 18.9       |               | 10 380 |
| Uinta Basin     | eP   | 35.0       | e(S) 14 07 03 | 10 680 |
| Lanto           | PKP  | 14 00 41.0 |               | 130 45 |
| Tamanrasset     | ePKP | 01 27      |               | 15 200 |
| Quetta          | ePKP | 59.3C      |               | 168 80 |

inscrit à Nat. Uni. Mexico, Canberra.

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XXIV. 10 Janvier  
Région de Johannesburg

36°35' 28°1'E H = 14<sup>h</sup>36<sup>m</sup>34<sup>s</sup>  
M = 3.3 (Bulawayo)

|          |     |          |     |          |
|----------|-----|----------|-----|----------|
| Bulawayo | ePn | 14 38 04 | eSg | 14 39 41 |
| Karoi    | ePn | 50       | iSg | 41 24    |

XXV. 10 Janvier  
Mindanao, îles Philippines

13°8'N, 120°6'E h = 14<sup>h</sup>9<sup>m</sup> H = 15<sup>h</sup>07<sup>m</sup>58<sup>s</sup> (CGS)  
13°2'N, 121°0'E H = 15<sup>h</sup>07<sup>m</sup>41<sup>s</sup> (URSS)

M = 5.6 (Shillong), 4.8 (CGS), 4.7 (College), 4.2 (North Pole),  
3.9 (Palmer).

|                 |    |          |      |            |           |
|-----------------|----|----------|------|------------|-----------|
| Manila          | 1P | 15 08 23 |      | 110        | 1.0       |
| Baguio          | 1P | 40.8     | i(S) | 15 09 06.0 | 290 2.6   |
| Davao           | 1P | 0 9 56.5 |      | 610        | 8.2       |
| Shiraki         | eP | 12 55.2  |      | 2600       | 23.4      |
| Oishiyama       | eP | 13 02.7  |      | 2690       | 24.2      |
| Abuyama         | 1P | 0 9 1    |      | 2770       | 24.9      |
| Shillong        | 1P | 50.2     |      | 3270       | 29.4      |
| Warramunga      | eP | 14 45    | e    | 15 15.5    | 4015 36.2 |
| Meektharra      | 1P | 15 19.7D |      | 4470       | 40.2      |
| Charters Towers | 1P | 36       |      | 4675       | 42.1      |
| Dehra Dun       | 1P | 39C      |      | 4720       | 42.5      |
| New Dehli       | eP | 41       |      | 4755       | 42.8      |
| Kalgoorlie      | 1P | 52.2     |      | 4925       | 44.3      |
| Bodajbo         | 1P | 54       |      | 4915       | 44.2      |
| Poona           | eP | 16 02.0  |      | 5010       | 45.1      |
| Talgar          | 1P | 20D      |      | 5250       | 47.2      |
| Yakoutsk        | 1P | 29C      |      | 5400       | 48.6      |
| Semipalatinsk   | 1P | 32D      |      | 5445       | 49.0      |
| Garm            | 1P | 46C      |      | 5640       | 50.8      |
| Quetta          | 1P | 54.3C    |      | 5770       | 51.9      |
| Tiksi           | 1P | 17 35D   |      | 6445       | 58.0      |
| Sverdlovsk      | 1P | 18 06C   |      | 6920       | 62.3      |
| Chiraz          | P  | 20.0     |      | 7120       | 64.1      |
| Bakouriani      | 1P | 19 05.5D |      | 7930       | 71.4      |
| Kevo            | eP | 41       |      | 8710       | 78.4      |
| Palmer          | eP | 41.2     |      | 8680       | 78.1      |
| College         | 1P | 40.0     |      | 8700       | 78.3      |
| Gilmore Creek   | eP | 44.3     |      | 8710       | 78.4      |
| Pedro Dome      | 1P | 44.5     |      | 8710       | 78.4      |
| Kajaani         | eP | 45       |      | 8775       | 79.0      |
| Sodankylae      | 1P | 46.1     |      | 8765       | 78.8      |
| Mt Sheep Creek  | 1P | 46.8     |      | 8770       | 78.9      |
| Black Rapids    | 1P | 48.9     |      | 8810       | 79.3      |
| Oulu            | eP | 50       |      | 8840       | 79.6      |
| Nurmijaervi     | eP | 57       |      | 9000       | 81.0      |
| Kiruna          | 1P | 57.3     |      | 9015       | 81.1      |
| Umeå            | 1P | 20 03.3  |      | 9140       | 82.2      |

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|              |      |            |            |       |       |
|--------------|------|------------|------------|-------|-------|
| Uméa         | iP   | 15 20 03.3 |            | 9140  | 82.2  |
| Vrinci oia   | P    | 09         |            | 9210  | 82.9  |
| Mould Bay    | eP   | 09.2       |            | 9230  | 83.5  |
| North Pole   | eP   | 10.0       |            | 9230  | 83.5  |
| Ciné         | iP   | 11.2       |            | 9295  | 83.7  |
| Uppsala      | iP   | 13.8       |            | 9395  | 84.6  |
| Oujgorod     | eP   | 19         |            | 9460  | 85.2  |
| Skalstugan   | eP   | 23         |            | 9520  | 85.7  |
| Uddeholm     | iP   | 23.9       |            | 9600  | 86.4  |
| Niedzica     | eIP  | 25C        | eP 1521 00 | 9675  | 86.2  |
| Resolute     | eP   | 36.4C      |            | 9800  | 89.0  |
| Uinta Basin  | PKP  | 26 11.9    |            | 12090 | 108.8 |
| Tonto Forest | PKP  | 15.2       |            | 12370 | 111.3 |
| Wichita M.   | PKP  | 30.3       |            | 13230 | 119.1 |
| La paz       | ePKP | 27 48      |            | 19020 | 171.2 |

XXVI. 10 janvier  
Wlwaterstrand

26°7 S ; 26°9 E ; H = 15h.54<sup>mn</sup>52s. ; M. = 3.1 (Bulawayo)

|          |     |          |     |          |
|----------|-----|----------|-----|----------|
| Bulawayo | ePn | 15 55 29 | eSn | 15 56 40 |
| Karoi    | ePn | 57 15    | eSn | 58 03    |

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Ilot Mathew.

23° S ; 170°5 E ; H = 17h.24<sup>mn</sup>24s. ; M. = 3.8 (Nouméa)

|        |     |             |    |            |
|--------|-----|-------------|----|------------|
| Nouméa | iP  | 17 25 23.9C | iS | 17 26 10.5 |
| Koumac | eIP | 58.8        | iS | 27 12      |

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Nouvelles Hébrides (Ile Espiritu Santo)

H = 18h.10<sup>mn</sup>28s. (Nouméa)

|           |     |            |    |          |
|-----------|-----|------------|----|----------|
| Port Vila | eIP | 18 10 49.5 | iS | 18 11 06 |
| LOGUES    | eP  | 55.6       | iS | 15.5     |
| Lonorore  | eIP | 11 01.1    | iS | 24.5     |

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Région de la Nouvelle Guinée

|         |      |          |    |          |
|---------|------|----------|----|----------|
| Esa'Ala | i(P) | 19 12 50 | iS | 19 13 14 |
| Lae     | eP   | 58       |    |          |
| Keravat | iP   | 13 12.5  |    |          |

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|                 |    |            |    |          |
|-----------------|----|------------|----|----------|
| Rabaul          | iP | 19 13 15.4 |    |          |
| Goroka          | eP | 20         | eS | 19 13 54 |
| Port Moresby    | iP | 20.3       | eS | 14 05    |
| Charters Towers | iP | 15 44      |    |          |
| Warramunga      | eP | 16 43      | e  | 20 20.5  |

XXX.- 10 Janvier

Région de la Nouvelle Bretagne.

H = 19<sup>h</sup> 14<sup>mn</sup> 12<sup>s</sup>.; M. = 3.8 (Rabaul)

|              |    |                         |    |            |
|--------------|----|-------------------------|----|------------|
| Rabalanakaia | iP | 19 14 25.7 <sup>D</sup> |    |            |
| Sulphur      | iP | 25.8 <sup>D</sup>       |    |            |
| Rabaul       | iP | 26.2 <sup>D</sup>       | iS | 19 14 35.9 |
| Keravat      | iP | 29 <sup>D</sup>         | iS | 40.5       |

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Données discordantes.

|            |     |                    |     |          |
|------------|-----|--------------------|-----|----------|
| Bombay     | ePn | 23 05 22           | eSn | 23 05 47 |
| Poona      | iP  | 25.1               | i   | 06 01.5  |
| Chatra     | e   | 07 22 <sup>D</sup> |     |          |
| New Delhi  | e   | 25                 | eSn | 07 25    |
| Dehra Dun  | eP  | 08 14.2            |     |          |
| Madras     | eSg | 35                 | e   | 09 30    |
| Kodaikanal | e   | 09 08 <sup>D</sup> | iS  | 10 16    |

XXXII.- 10 Janvier

Région Nord de l'Idaho (U. S. A.)

44°6 N ; 115°0 W ; h = 33<sup>km</sup> ; H = 23<sup>h</sup> 58<sup>mn</sup> 01<sup>s</sup>. (CGS)

M. = 3.5 (CGS - Eureka)

|              |     |            |     |            |     |     |
|--------------|-----|------------|-----|------------|-----|-----|
| Blue M.      | ePn | 23 58 28.2 |     |            | 190 | 1.7 |
| Butte        | eP  | 37.6       | eL  | 24 00 10.7 | 245 | 2.2 |
| Bozeman SSS  | eP  | 39.5       | iL  | 23 59 19.0 | 290 | 2.6 |
| Newport      | iP  | 59 00.7    |     |            | 430 | 3.9 |
| Hungry Horse | Pn  | 03.8       | ePg | 17.1       | 420 | 3.8 |
| Northman     | eP  | 05.0       |     |            | 470 | 4.2 |
| Eureka       | eP  | 19.0       |     |            | 580 | 5.2 |
| Uinta Basin  | eP  | 34.3       |     |            |     |     |

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I.- 11 Janvier

Sud Du Pérou

16°9 S ; 71°5 W ; h = 89km ; H = 02h.43<sup>m</sup>40.1s. (CGS)

M. = 4.6 (Tonto Forest); 4.5 (Dugway); 4.4 (CGS - Wichita M.);  
4.3 (Uinta Basin) - Eureka - Blue M.)

|                |      |                      |                |          |      |      |
|----------------|------|----------------------|----------------|----------|------|------|
| Arequipa       | iP   | 02 43 55.5           | i(S)           | 02 44 12 | 55   | 0.5  |
| Penas          | iP   | 44 26.2 <sup>C</sup> | S              | 45 00    | 320  | 2.9  |
| La Paz         | iP   | 30.4 <sup>C</sup>    | e              | 46 11    | 355  | 3.2  |
| Cochabamba     | iP   | 52.7 <sup>D</sup>    |                |          |      |      |
| Nana           | eP   | 45 23                | eS             | 47 07    | 800  | 7.2  |
| Quito          | e(P) | 47 55                |                |          |      |      |
| Wichita M.     | eP   | 53 21.1              | ePP            | 53 41.9  | 6390 | 57.5 |
| Cumberland Pl. | eP   | 21.5                 |                |          | 5990 | 53.9 |
| Tucson         | eP   | 51.2                 |                |          | 6865 | 61.8 |
| Brébeuf        | eP   | 53                   |                |          | 6910 | 62.2 |
| Tonto Forest   | eP   | 54 03.7              |                |          | 7055 | 63.5 |
| Byrd           | eP   | 22.6                 | e              | 54 52.4  | 7400 | 66.6 |
| Uinta Basin    | eP   | 26.3                 | ePP            | 48.6     | 7455 | 67.1 |
| Dugway         | eP   | 36.5                 |                |          | 7620 | 68.6 |
| Isabella       | iP   | 38                   | n <sup>D</sup> | 58       | 7635 | 68.7 |
| Eureka         | iP   | 44                   |                |          | 7755 | 69.8 |
| Jamestown      | eP   | 51.5                 |                |          | 7935 | 71.5 |
| Mt. Hamilton   | eP   | 55.5                 |                |          | 7965 | 71.7 |
| Isabella       |      |                      |                |          |      |      |
| South Pole     | eP   | 55 02.4              |                |          | 8135 | 73.2 |
| Oroville       | iP   | 03.8                 |                |          | 8110 | 73.0 |
| Blue M.        | eP   | 10                   |                |          | 8255 | 74.3 |
| Edmonton       | eP   | 33                   |                |          | 8735 | 78.6 |
| Frobisher      | eP   | 42                   |                |          | 8935 | 80.4 |
| Toledo         | iP   | 56 03                | i              | 56 25.9  |      |      |
| Tamanrasset    | eP   | 07                   | e              | 37       |      |      |
| Bangui         | iP   | 35.5 <sup>D</sup>    | iPP            | 37 02.5  |      |      |
| Warramunga     | ePKP | 03 02 51.5           |                |          |      |      |
| Matsushiro     | PKP  | 03 15                |                |          |      |      |

II.- 11 Janvier

Région de la Nouvelle Bretagne

6°9 S ; 153°8 E ; h = 11km ; H = 03h.50<sup>m</sup>35.4s. (CGS)

|                 |    |                        |    |            |      |      |
|-----------------|----|------------------------|----|------------|------|------|
| Keravat         | iP | 0351 24.5 <sup>D</sup> | iS | 03 51 57.5 | 345  | 3.1  |
| Rabaul          | eP | 25                     | iS | 59         | 345  | 3.1  |
| Port Moresby    | eP | 52 21                  | eS | 53 38      | 780  | 7.0  |
| Charters Towers | eP | 54 09                  |    |            | 1665 | 15.0 |
| Warramunga      | eP | 55 39.5                |    |            | 2545 | 22.9 |
| College         | eP | 04 03 03               |    |            | 9265 | 83.4 |
| South Pole      | eP | 03.8                   |    |            | 9245 | 83.2 |



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Tamanrasset PKP 04 10 17 16180 145°6  
 inscrit à Bangui - Esa'Ala.

III.- 11 Janvier

Iles Loyauté

Vers 20° 1/4 S ; 170° 3/4 E ; H = 03<sup>h</sup> 52<sup>mn</sup> 03<sup>s</sup>. (Nouméa)

M. = 3.4 (Nouméa)

|        |     |          |    |          |
|--------|-----|----------|----|----------|
| Nouméa | eIP | 03 53 12 | 1S | 03 54 05 |
| Koumac | eIP | 34       | 1S | 44.5     |

inscrit à Port Vila.

IV.- 11 Janvier

Iles Talaud

4°9 N ; 125°9 E ; h = 33<sup>km</sup> ; H = 04<sup>h</sup> 40<sup>mn</sup> 11<sup>s</sup>. (CGS)  
 5°3 N ; 128°4 E ; H = 04<sup>h</sup> 40<sup>mn</sup> 15<sup>s</sup>. (URSS)

M. = 5.2 (Kajaani) ; 5.0 (CGS) ; 4.7 (College)

|                 |    |          |      |          |      |      |
|-----------------|----|----------|------|----------|------|------|
| Baguio          | eP | 04 43 08 | e(S) | 04 45 54 | 1390 | 12°5 |
| Charters Towers | 1P | 46 34.8  |      |          | 3545 | 31°9 |
| Meekehatarra    | 1P | 42.1C    |      |          |      |      |
| Kalgoorlie      | 1P | 47 12.3C |      |          |      |      |
| Mundaring       | 1P | 31.2C    |      |          |      |      |
| Shillong        | 1P | 40.1     |      |          | 4280 | 38°5 |
| Brisbane        | 1P | 53.3     |      |          | 4590 | 41°3 |
| Adélaïde        | eP | 59       |      |          | 4610 | 41°5 |
| Toolangi        | eP | 48 35    | e    | 48 39    | 5120 | 46°1 |
| Oulan-Bator     | 1P | 36       |      |          |      |      |
| Esen Boulak     | eP | 49 01    |      |          |      |      |
| New Dehli       | eP | 22       |      |          |      |      |
| Dehra Dun       | eP | 23.8     |      |          |      |      |
| Bodajbi         | 1P | 33.5     |      |          |      |      |
| Iakoutsk        | 1P | 57C      |      |          |      |      |
| Talgar          | eP | 50 03    |      |          |      |      |
| Qizetta         | eP | 23.1C    |      |          | 6755 | 60°8 |
| Garm            | eP | 25       |      |          |      |      |
| Tiksi           | 1P | 51 01C   |      |          |      |      |
| Sverdlovsk      | eP | 42       |      |          |      |      |
| Big Mountain    | eP | 52 19    |      |          | 8910 | 80°2 |
| Sparrevohn      | eP | 20       |      |          | 8910 | 80°2 |
| Kheis           | eP | 31       |      |          |      |      |
| Tanana          | eP | 31.2     |      |          | 9145 | 82°3 |
| College         | eP | 38       |      |          | 9335 | 84°0 |
| Pedro Dome      | eP | 39.5     |      |          | 9355 | 84°2 |
| Mts Sheep Creek | eP | 40.2     |      |          | 9355 | 84°2 |

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|              |      |            |  |       |       |
|--------------|------|------------|--|-------|-------|
| Black Rapids | eP   | 04 52 44   |  | 9435  | 84.9  |
| Moskva       | eP   | 48         |  |       |       |
| Kiruna       | eP   | 53 02      |  |       |       |
| Kevo         | eP   | 06         |  | 9835  | 88.5  |
| Sodankylä    | eP   | 08         |  |       |       |
| Kajaani      | iP   | 09         |  | 9910  | 89.2  |
| Oulu         | eP   | 12         |  |       |       |
| Mould Bay    | eP   | 14         |  | 10110 | 91.0  |
| Umeå         | iP   | 14.7       |  |       |       |
| Nurmijaerwi  | eP   | 21         |  | 10135 | 91.2  |
| Qijgorod     | eP   | 38         |  |       |       |
| Resolute     | eF   | 40         |  | 10755 | 96.8  |
| Uinta Basin  | ePKP | 58 45.7    |  |       |       |
| Tonto Forest | ePKP | 50.8       |  | 12620 | 113.6 |
| Wichita M.   | ePKP | 59 08.1    |  | 13610 | 122.5 |
| Penas        | ePKP | 05 00 12.8 |  |       |       |
| La Paz       | ePKP | 14         |  |       |       |

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Nord de la Colombie .

6°9 N ; 73°0 W ; h = 160km ; H = 07h.12<sup>mn</sup>12.3S. (CGS)

M. = 4.9 (Caracas) ; 4.1 (Wichita M.) ; 4.0 (CGS - Uinta Basin) ;  
3.8 (Penas) ; 3.6 (Tonto Forest - Blue M.).

|              |     |            |     |            |      |      |
|--------------|-----|------------|-----|------------|------|------|
| Bogota       | iP  | 07 12 54.5 | 1S  | 07 13 25.5 | 280  | 2.5  |
| Caracas      | eIP | 13 53.5    |     |            | 780  | 7.0  |
| Penas        | P   | 17 08.6    | 1PP | 17 41.6    | 2600 | 23.4 |
| La Paz       | eP  | 11.7       | 1PP | 45.3       | 2645 | 23.8 |
| Wichita M.   | eP  | 19 02.3    |     |            | 4045 | 36.4 |
| Tonto Forest | eP  | 20 11.5    |     |            | 4955 | 44.6 |
| Uinta Basin  | eP  | 27.3       |     |            | 5190 | 46.7 |
| Blue M.      | eP  | 21 20.2    |     |            | 5990 | 53.9 |
| Mould Bay    | eP  | 23 31      |     |            | 8200 | 73.8 |

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Ouest de l'Idaho

(USA)

44°0 N ; 114°4 W ; h = 33km ; H = 07h.46<sup>mn</sup>18.4S. (CGS)

M. = 4.4 (Uinta Basin) ; 4.0 (CGS - Longmire) ; 3.6 (Wichita M.).

|                |     |            |     |            |     |     |
|----------------|-----|------------|-----|------------|-----|-----|
| Blue M.        | iPn | 07 46 54.8 |     |            | 245 | 2.2 |
| Bitte          | ePn | 56.4       | eSn | 07 47 21.3 | 265 | 2.4 |
| Bozeman SSS    | iP  | 59.5C      | iL  | 46         | 290 | 2.6 |
| Dugway         | eP  | 47 17.4    | eL  | 48 18.7    | 445 | 4.0 |
| Salt Lake City | ePn | 18.9       | e   | 13.4       | 410 | 3.7 |
| Hungry Horse   | Pn  | 24.8       | e   | 47 30.3    | 490 | 4.4 |

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|             |     |                       |      |             |      |       |
|-------------|-----|-----------------------|------|-------------|------|-------|
| Eureka      | iP  | 07 47 27° 1           | i(S) | 07 48 16° 7 | 510  | 4° 6  |
| Newport     | eP  | 28                    | eL   | 45          | 520  | 4° 7  |
| Nordman     | eP  | 32                    | eL   | 54          | 555  | 5° 0  |
| Uinta Basin | ePn | 36° 7                 |      |             | 565  | 5° 1  |
| Longmire    | eP  | 48                    |      |             | 655  | 5° 9  |
| Mineral     | eP  | 48 02° 7 <sup>D</sup> |      |             |      |       |
| Jamestown   | eP  | 11° 2                 |      |             |      |       |
| Golden      | eP  | 12                    |      |             | 890  | 8° 0  |
| Oroville    | eP  | 25                    | i    | 49 54° 4    | 765  | 6° 9  |
| Edmonton    | eP  | 30                    |      |             | 1035 | 9° 3  |
| Wichita M.  | eP  | 49 59° 7              |      |             | 1700 | 15° 3 |

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Au large de la cote de l'Amérique Centrale.

3° 0 N ; 84° 3 W ; h = 48 km ; H = 09h.37<sup>mn</sup>14<sup>s</sup>. (CGS)

M. = 6° 4 (Balboa Heights); 5° 5 (La Paz); 5° 2 (Penas); 5° 1 (Caracas);  
 5° 0 (Wichita M.); 4° 9 (Bozeman SSS); 4° 8 (CGS - Cumberland Pl. -  
 Albuquerque - Tonto Forest - Uinta Basin); 4° 7 (Blue M.); 4° 3 (Eureka);  
 4° 2 (Golden).

|                   |     |                    |      |             |      |       |
|-------------------|-----|--------------------|------|-------------|------|-------|
| Balboa Heights    | iP  | 09 39 05° 3        | eS   | 09 40 33° 6 | 835  | 7° 5  |
| Huancayo          | iP  | 41 13° 8           |      |             | 1935 | 17° 4 |
| Presa B. Juarez   | iP  | 15° 3              |      |             | 1920 | 17° 3 |
| Caracas           | iP  | 31                 | eS   | 45 08       | 2090 | 18° 8 |
| Nat. Univ. Mexico | eP  | 42 03              | i(S) | 46 21       | 2420 | 21° 8 |
| Tacubaya          | eP  | 08                 |      |             |      |       |
| Presa Infiernillo | iP  | 08                 |      |             |      |       |
| Arequipa          | eiP | 17° 6              |      |             | 2565 | 23° 1 |
| Trinidad          | eP  | 24° 2              |      |             | 2655 | 23° 9 |
| Penas             | eP  | 33° 7 <sup>C</sup> | S    | 56          | 2745 | 24° 7 |
| La Paz            | P   | 37° 1 <sup>C</sup> | eS   | 58          | 2790 | 25° 1 |
| Cumberland Pl.    | eP  | 43 41° 9           |      |             | 3610 | 32° 5 |
| Wichita M.        | eP  | 57° 6              | eS   | 49 28       | 3810 | 34° 3 |
| Albuquerque       | eP  | 44 29° 5           | e    | 44 36       | 4210 | 37° 9 |
| Tucson            | eP  | 32° 2              |      |             | 4255 | 38° 3 |
| Tonto Forest      | eP  | 47° 3              | e(S) | 51 08       | 4445 | 40° 0 |
| Golden            | eP  | 58° 5              |      |             | 4580 | 41° 2 |
| Brébeuf           | iP  | 45 13 <sup>C</sup> |      |             |      |       |
| Uinta Basin       | eP  | 16° 5              | e(S) | 52 00       | 4845 | 43° 6 |
| Pasadena          | eP  | 17                 | e    | 12          | 4910 | 44° 2 |
| Eureka            | iP  | 38                 |      |             | 5145 | 46° 3 |
| Jamestown         | eP  | 48° 3 <sup>C</sup> |      |             | 5335 | 48° 0 |
| San Luis Dam      | eP  | 50° 5              |      |             | 5335 | 48° 0 |
| Bozeman SSS       | eP  | 56                 |      |             | 5410 | 48° 7 |
| Mineral           | eP  | 56° 5 <sup>D</sup> |      |             |      |       |
| Butte             | eP  | 46 02° 1           |      |             | 5500 | 49° 5 |
| Oroville          | eP  | 03° 5              |      |             | 5510 | 49° 6 |
| Blue M.           | eP  | 10° 9              |      |             | 5645 | 50° 8 |
| Hungry Horse      | eP  | 20° 6              | e    | 46 27° 4    | 5765 | 51° 9 |

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|                 |      |                    |       |       |
|-----------------|------|--------------------|-------|-------|
| Newport         | eP   | 09 46 29           | 5910  | 53.2  |
| Nordman         | eP   | 31                 | 5935  | 53.4  |
| Edmonton        | eP   | 46                 | 6165  | 55.5  |
| Coppermine      | eP   | 48 10 <sup>C</sup> | 7565  | 68.1  |
| Resolute        | eP   | 33                 | 7990  | 71.9  |
| Mould Bay       | eP   | 56                 | 8410  | 75.7  |
| College         | eP   | 58.2               | 8480  | 76.3  |
| Tamanrasset     | iP   | 50 05 <sup>C</sup> |       |       |
| South Pole      | eP   | 24.2               |       |       |
| Charters Towers | PKP  | 56 24              | 10335 | 93.0  |
| Warramunga      | ePKP | 36                 | 14210 | 127.9 |
| Mundaring       | ePKP | 48                 |       |       |
| Poona           | PKP  | 57 01              | 16620 | 149.6 |

inscrit à Lanslevillard - Monteynard - Berkeley - Bogota.

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Sud du Valais (Suisse)

46°0 N ; 7°6 E ; H = 10h.30<sup>mn</sup>45<sup>s</sup>. (BCIS)

|               |      |            |      |            |    |     |
|---------------|------|------------|------|------------|----|-----|
| Roselend      | ePg  | 10 30 59.9 | eISg | 10 31 09.6 | 75 | 0.7 |
| Les Buteaux   | ePn  | 31 28.2    |      |            |    |     |
| Sommée Lormes | ePn  | 31.4       |      |            |    |     |
| Vouglans      | eISg | 32.6       |      |            |    |     |
| St. Saulge    | ePn  | 33.2       |      |            |    |     |
| Monteynard    | eSg  | 43.5       |      |            |    |     |

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Région d'Evora (Portugal)

38°5 N ; 8°0 W ; H = 10h.48<sup>mn</sup>52<sup>s</sup>. (BCIS)

38°5 N ; 8°0 W ; h = 33<sup>km</sup> ; H = 10h.48<sup>mn</sup>51<sup>s</sup>. (Madrid)

Vers 37°1/2 N ; 8°1/3 W ; H = 10h.48<sup>mn</sup>(58)<sup>s</sup>. (Rabat)

Ressenti II - III à Lisboa

M. = 5.0 (Madrid) ; 4.0 (Lisboa)

|          |     |                   |       |            |     |     |
|----------|-----|-------------------|-------|------------|-----|-----|
| Lisboa   | Pg  | 10 49 08.8        | Sg    | 10 49 18.8 | 105 | 0.9 |
| Coimbra  | P   | 24.3              | S     | 48.2       | 195 | 1.7 |
| Porto    | iPn | 35.4 <sup>D</sup> | iSn   | 50 05.2    | 295 | 2.7 |
| Toledo   | iPn | 45                | iSn   | 23.2       | 375 | 3.4 |
| Malaga   | iPn | 46                | iSg   | 42         | 375 | 3.4 |
| Averroes | iPn | 50 09.5           | i(Sn) | 51 02.5    | 580 | 5.2 |
| Ifrane   | iPn | 12                | M     | 18         | 610 | 5.5 |
| Almería  | ePg | 19.5              | iSg   | 22.3       | 520 | 4.7 |
| Cartuja  | iSg | 55                |       |            | 415 | 3.7 |

inscrit à Alicante - Logrono

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Sud de la Foret Noire.

47°8 N ; 7°9 E ; H = 11h.10<sup>mn</sup>32s. (BCIS)

Peut\_etre artificiel (d'après Stuttgart)

|              |     |            |    |            |    |     |
|--------------|-----|------------|----|------------|----|-----|
| Feldberg     | eS  | 11 10 34.1 |    |            |    |     |
| Welschbruch  | ePg | 38.6       | 1  | 11 10 50.6 | 40 | 0.4 |
| Champ du Feu | 1Pg | 45.6       |    |            |    |     |
| Bühlerhöhe   | 1Pg | 49.3       | Sg | 11 01.8    |    |     |
| Karlsruhe    | 1Pg | 49.3       | Sg | 01.8       |    |     |
| Haudompré    | 1Pg | 51.7       |    |            |    |     |

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Nouvelles Hébrides (Ile Tanna)

19°0 S ; 168°4 E ; H = 11h.11<sup>mn</sup>17s. (Nouméa)

M. = 3.4 (Nouméa)

|            |     |             |    |          |  |  |
|------------|-----|-------------|----|----------|--|--|
| Port Vila  | 1P  | 11 11 49.2D | 1S | 11 12 13 |  |  |
| Luganville | eiP | 12 13.6     | 1S | 58.5     |  |  |
| Nouméa     | 1P  | 25.9C       | 1S | 13 21    |  |  |
| Koumac     | 1P  | 31.6C       | 1S | 29       |  |  |

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Iles Loyauté

Vers 22°0 S ; 170°1/4 E ; H = 11h.46<sup>mn</sup>08s. (Nouméa)

M. = 3.4 (Nouméa)

|        |     |          |    |          |  |  |
|--------|-----|----------|----|----------|--|--|
| Nouméa | eiP | 11 47 04 | 1S | 11 47 46 |  |  |
| Koumac | eiP | 34.6     | 1S | 48 41.5  |  |  |

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Région de la Nouvelle Bretagne

H = 11h.56<sup>mn</sup>00s ; M. = 3.6 (Rabaul)

|                |    |            |    |          |  |  |
|----------------|----|------------|----|----------|--|--|
| Rabalanakaia   | 1P | 11 56 09.2 |    |          |  |  |
| Wanliss Street | 1P | 09.4       |    |          |  |  |
| Rabaul         | 1P | 09.6       | 1S | 11 56 17 |  |  |
| Keravat        | 1P | 12         | 1S | 22       |  |  |

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Région de Hokkaido (Japon)

41°5' N ; 142°4' E ; h = 33km ; H = 12h.41mm55s. (CGS)  
 41°27' N ; 142°04' E ; h = 70km ; H = 12h.41mm56.7s. (JMA)

M. = 5.3(Mt. Tsukuba) ; 4.2(College) ; 4.5(CGS - Wichita M.) ;  
 4.3(Uinta Basin) ; 4.2(Blue M.) ; 4.1(Tonto Forest)

|              |    |            |      |            |      |      |
|--------------|----|------------|------|------------|------|------|
| Urakawa      | 1P | 12 42 14.2 | S    | 12 42 26.3 |      |      |
| Aomori       | P  | 18         | S    | 37         |      |      |
| Sapporo      | eP | 25         |      |            |      |      |
| Morioka      | 1P | 28.1       | S    | 50         |      |      |
| Mizusawa     | eP | 39.3       | eS   | 43 08.7    |      |      |
| Mt. Tsukuba  | eP | 43 16.3    |      |            | 620  | 5.6  |
| Matsushiro   | 1P | 22.9       | e    | 45 20      |      |      |
| Dodaira      | eP | 24.5       |      |            | 680  | 6.1  |
| Kiyosumi     | eP | 32         |      |            | 743  | 6.6  |
| Shiraki      | P  | 44 25.2    |      |            | 1155 | 10.4 |
| Barrow       | eP | 49 43.8    |      |            | 4665 | 42.0 |
| College      | 1P | 50 08.9    |      |            | 490  | 44.9 |
| Mould Bay    | eP | 51 02      |      |            | 5780 | 52.0 |
| Resolute     | 1P | 44.4C      |      |            | 6455 | 58.1 |
| Blue M.      | eP | 52 54.7    | e    | 53 15.5    | 7600 | 68.4 |
| Eureka       | eP | 53 20.5    |      |            | 8055 | 72.5 |
| Uinta Basin  | eP | 38.4       | ePcP | 56.7       | 8400 | 75.6 |
| Tonto Forest | eP | 56.5       | ePcP | 54 02.4    | 8745 | 78.7 |
| Wichita M.   | eP | 54 31.5    |      |            | 9520 | 85.7 |

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Sud de l'Alaska

61°0' N ; 152°9' W ; h = 129km ; H = 14h.04mm08.9s. (CGS)

M. = 4.1(Wichita M.) ; 3.9(CGS - Uinta Basin) ; 3.5(Blue M.)

|                 |      |            |   |            |      |      |
|-----------------|------|------------|---|------------|------|------|
| Sparrevohn      | 1P   | 14 04 36.5 |   |            | 155  | 1.4  |
| Big Mountain    | eP   | 42.3       |   |            | 220  | 2.0  |
| Mts Sheep Creek | eP   | 52.5       |   |            | 310  | 2.8  |
| Black Rapids    | 1P   | 05 12.4    |   |            | 455  | 4.1  |
| Tanana          | eP   | 14.5       |   |            | 480  | 4.3  |
| College         | eP   | 16.8       |   |            | 510  | 4.6  |
| Pedro Dome      | eP   | 19.1       |   |            | 520  | 4.7  |
| Barrow          | eP   | 06 35.9    |   |            | 1165 | 10.5 |
| Mould Bay       | eP   | 08 23      |   |            | 2130 | 19.1 |
| Blue M.         | eP   | 09 35.1    | e | 14 10 04.1 | 2945 | 26.4 |
| Uinta Basin     | eP   | 10 39.5    |   |            | 3720 | 33.5 |
| Wichita M.      | eP   | 11 56.9    |   |            | 4790 | 43.1 |
| Tonto Forest    | ePcP | 13 27.6    |   |            |      |      |

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|            |     |          |   |            |       |       |
|------------|-----|----------|---|------------|-------|-------|
| Warramunga | eP  | 14 18 13 | e | 14 20 34.5 |       |       |
| South Pole | PKP | 23 44.6  |   |            | 16755 | 150.8 |

inscrit à Bangui - Windhoek

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Norlands Fylke (Norvège)

66° 4 N ; 14° 8 E ; H = 16<sup>h</sup>.09<sup>mn</sup>47<sup>s</sup>. (Uppsala)

|             |     |            |     |            |     |     |
|-------------|-----|------------|-----|------------|-----|-----|
| Uméa        | iPg | 16 10 54.5 | 1fn | 16 11 29.1 | 390 | 3.5 |
| Kiruna      | iSg | 11 14.8    |     |            |     |     |
| Skalsvagan  | iSg | 19.1       |     |            |     |     |
| Lillehammer | eP  | 12 44      |     |            |     |     |

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Au large de la cote Est de Hondo (Japon)

34° 3 N ; 141° 2 E ; H = 53<sup>km</sup> ; H = 16<sup>h</sup>.12<sup>mn</sup>46.9<sup>s</sup>. (CGS)  
 34° 6 N ; 141° 3 E ; H = 16<sup>h</sup>.12<sup>mn</sup>46<sup>s</sup>. (URSS)  
 34° 12 N ; 141° 27 E ; h = 50<sup>km</sup> ; H = 16<sup>h</sup>.12<sup>mn</sup>42.7<sup>s</sup>. (JMA)

M. = 5.8 (New Dehli) ; 5.3 (Berkeley) ; 5.0 (JMA) ; 4.9 (CGS - Eureka -  
 Uinta Basin) ; 4.8 (Dugway - Wichita M.) ; 4.7 (Blue M.) ; 4.5 (Tonto Forest) ;  
 4.4 (URSS) ; 4.3 (Golden)

|                   |      |                      |    |            |      |      |
|-------------------|------|----------------------|----|------------|------|------|
| Kiyosumi          | iP   | 16 13 08.5           |    |            | 135  | 1.2  |
| Tokyo             | eP   | 17.2                 | S  | 16 13 41.5 | 200  | 1.8  |
| Mt. Tsukuba       | iP   | 19.9                 |    |            | 235  | 2.1  |
| Mi to             | iP   | 21                   | iS | 45.2       | 240  | 2.2  |
| Dodaira           | iP   | 23.6                 |    |            | 255  | 2.3  |
| Kofu              | eP   | 27.7                 | eS | 58         | 285  | 2.8  |
| Maebashi          | eP   | 33                   | S  | 14 02.1    | 305  | 2.7  |
| Matsushiro        | iP   | 37                   | S  | 16         | 370  | 3.3  |
| Sendai            | iP   | 44                   | eS | 27.1       | 440  | 4.0  |
| Mizusawa          | eP   | 56.3                 | iS | 50.9       | 535  | 4.8  |
| Abuyama           | eP   | 57.7                 |    |            | 525  | 4.7  |
| Oshiyama          | eP   | 59.1                 | eS | 53.8       | 535  | 4.8  |
| Hikone            | e    | 14 00.9              | eS | 45         | 465  | 4.2  |
| Wakaura W         | eP   | 01                   | eS | 57         | 555  | 5.0  |
| Vladivostok       | eP   | 15 29 <sup>C</sup>   |    |            | 1270 | 11.4 |
| Séoul             | eP   | 37.4                 |    |            | 1335 | 12.0 |
| Youjno_Sakhalinsk | iB   | 41 <sup>D</sup>      | eS | 17 55      | 1415 | 12.8 |
| Anpu              | e(P) | 16 44                |    |            | 2145 | 19.3 |
| Guam              | eP   | 17 28.5              |    |            | 2320 | 20.9 |
| Yakoutsk          | iP   | 18 40 <sup>C</sup>   |    |            | 3185 | 28.7 |
| Bodajbo           | iP   | 49                   |    |            | 3305 | 29.7 |
| Keravat           | iP   | 20 23.5 <sup>D</sup> |    |            | 4415 | 39.8 |
| Rabaul            | iP   | 26.5 <sup>D</sup>    |    |            | 4405 | 39.7 |
| Port Moresby      | eP   | 52                   |    |            | 4865 | 43.8 |

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|                 |    |       |                   |     |            |      |      |
|-----------------|----|-------|-------------------|-----|------------|------|------|
| Semipalatinsk   | P  | 16 21 | 09·7 <sup>D</sup> |     |            | 5165 | 46·5 |
| Chatra          | 1P |       | 12 <sup>D</sup>   |     |            | 5185 | 47·7 |
| Barrow          | eP |       | 30·7              | 1   | 16 21 48·1 | 5445 | 49·0 |
| College         | eP |       | 49                |     |            | 5720 | 51·5 |
| Frounze         | eP |       | 50                |     |            | 5725 | 51·5 |
| New Dehli       | 1P | 22    | 07                |     |            | 6000 | 54·0 |
| Warramunga      | eP |       | 08·5              |     |            | 6035 | 54·3 |
| Charters Towers | eP |       | 09                |     |            | 6035 | 54·3 |
| Garm            | eP |       | 19                |     |            | 6105 | 55·7 |
| Tachkent        | eP |       | 21 <sup>C</sup>   |     |            | 6195 | 55·8 |
| Warsak          | eP |       | 28·8              |     |            | 6285 | 56·6 |
| Sverdlovsk      | eP |       | 30                |     |            | 6345 | 57·1 |
| Poona           | eP |       | 58                |     |            | 6810 | 61·3 |
| Quetta          | 1P | 23    | 00·3 <sup>C</sup> |     |            | 6845 | 61·6 |
| Brisbane        | eP |       | 05                |     |            | 6920 | 62·3 |
| Meekatharra     | 1P |       | 16·6 <sup>C</sup> |     |            | 7140 | 64·3 |
| Avati ty        | 1P |       | 23·4 <sup>D</sup> |     |            | 7240 | 65·1 |
| Resolute        | eP |       | 24                |     |            | 7255 | 65·3 |
| Kalgoorlie      | 1P |       | 30·7 <sup>D</sup> |     |            | 7485 | 67·4 |
| Sodankylä       | 1P |       | 37                |     |            | 7490 | 67·4 |
| Kajaani         | 1P |       | 47·3              |     |            | 7665 | 69·0 |
| Oulu            | eP |       | 48                |     |            | 7670 | 69·0 |
| Kiruna          | 1P |       | 48                |     |            | 7665 | 69·0 |
| Moskva          | eP |       | 50                |     |            | 7705 | 69·3 |
| Canberra        | eP | 24    | 03                |     |            | 7740 | 69·6 |
| Uméa            | 1P |       | 04·4              |     |            | 7970 | 71·7 |
| Kirovabad       | eP |       | 05                |     |            | 7990 | 71·9 |
| Newport         | eP |       | 06                |     |            | 8030 | 72·2 |
| Edmonton        | eP |       | 07                |     |            | 7955 | 71·6 |
| Woodman         | eP |       | 07                |     |            | 8010 | 72·1 |
| Goris           | eP |       | 08                |     |            | 8055 | 72·5 |
| Hurmijaerwi     | 1P |       | 08·3              |     |            | 8035 | 72·3 |
| Chiraz          | eP |       | 12                |     |            | 8065 | 72·6 |
| Bakouriani      | eP |       | 15·2              |     |            | 8130 | 73·2 |
| Mineral         | eP |       | 16·4 <sup>C</sup> |     |            | 8175 | 73·6 |
| Blue M.         | eP |       | 18·2              |     |            | 8220 | 74·0 |
| Hungry Horse    | eP |       | 19                | e   | 16 24 36·4 | 8210 | 74·5 |
| Berkeley        | eP |       | 21·6 <sup>C</sup> |     |            | 8280 | 74·5 |
| Shelstugan      | 1P |       | 25·2              |     |            | 8285 | 74·4 |
| Uppsala         | 1P |       | 27·7              | 1   | 42·2       | 8365 | 75·3 |
| San Luis Dam    | 1P |       | 28·2 <sup>D</sup> |     |            | 8400 | 75·6 |
| Jamestown       | eP |       | 28·1              |     |            | 8410 | 75·7 |
| Bitte           | eP |       | 31·3              |     |            | 8455 | 76·1 |
| Lillehammer     | 1P |       | 32·1              |     |            | 8525 | 76·7 |
| Uddeholm        | 1P |       | 35·3              |     |            | 8505 | 76·6 |
| Bireka          | 1P |       | 40·6              |     |            | 8605 | 77·7 |
| Digway          | eP |       | 48·8              | e   | 25 07      | 8810 | 79·3 |
| Frobisher       | eP |       | 49                |     |            | 8835 | 79·5 |
| Uinta Basih     | eP |       | 59·3              | epP | 16         | 8020 | 81·2 |
| Niedzica        | eP | 25    | 00                | e   | 18         | 9060 | 81·5 |



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|                  |      |                       |     |          |       |       |
|------------------|------|-----------------------|-----|----------|-------|-------|
| Krakow           | eP   | 16 25 02 <sup>D</sup> | e   | 16 25 18 | 9030  | 81°3  |
| Glamis           | P    | 04                    | i   | 22       | 9135  | 82°2  |
| Srobarova        | eIP  | 13                    |     |          | 9290  | 83°6  |
| Wien             | eP   | 13                    |     |          | 9355  | 84°2  |
| Pruhonice        | eP   | 13                    |     |          | 9300  | 83°7  |
| Tonto Forest     | eP   | 13°1                  | ePP | 31°0     | 9310  | 83°8  |
| Golden           | eP   | 14°5                  |     |          | 9345  | 84°1  |
| Kasperské Hory   | P    | 17                    |     |          | 9420  | 84°8  |
| Moxa             | eP   | 17                    |     |          | 9380  | 84°4  |
| Jérusalem        | iP   | 17°5                  |     |          | 9365  | 84°3  |
| Tucson           | eP   | 19                    |     |          | 9490  | 85°4  |
| Erlangen         | eP   | 20°2                  | ePP | 37°5     | 9485  | 85°4  |
| Albuquerque      | eP   | 22                    |     |          | 9610  | 86°5  |
| Fürstenfeldbruck | iP   | 25                    |     |          | 9610  | 86°5  |
| Garchy           | eP   | 43                    |     |          | 10055 | 90°5  |
| Wichita M.       | eP   | 48°9                  |     |          | 10165 | 91°5  |
| South Pole       | PKP  | 31 39°5               | e   | 33 20°3  | 13790 | 124°1 |
| Penas            | PKP  | 26                    |     |          | 16435 | 147°9 |
| La Paz           | PKP  | 32 30°6               |     |          | 16490 | 148°4 |
| Cochabamba       | ePKP | 34°2                  |     |          | 16705 | 150°3 |

inscrit à Istanbul Utl.

XVIII.- 11 Janvier

Mindanao (Philippines)

6°9 N ; 126°1 E ; h = 58 km ; H = 16h.55<sup>mm</sup>20.7<sup>s</sup>. (CGS)  
 6°8 N ; 126°2 E ; h = 49 km ; H = 16h.55<sup>mm</sup>19<sup>s</sup>. (URSS)

M. = 5.9 (Kajaani) ; 5.7 (Adelaide) ; 5.5 (Station Nord) ; 5.4 (Shillong - Rabaul)  
 5.3 (CGS) ; 5.2 (Nurmijaerwi) ; 4.8 (Mt. Tsukuba - Blue M.)

|                 |      |                    |    |          |      |      |
|-----------------|------|--------------------|----|----------|------|------|
| Davao           | iP   | 16 55 34°5         |    |          | 65   | 0°6  |
| Manila          | e(P) | 57 45              |    |          | 1020 | 9°2  |
| Baguio          | eP   | 58 00              | eS | 17 00 10 | 1210 | 10°9 |
| Darwin          | eP   | 59 44              | e  | 03 19    | 2190 | 19°7 |
| Hong Kong       | iP   | 48 <sup>C</sup>    | eS | 00 08    | 2135 | 19°3 |
| Esa'Ala         | iP   | 22°5               |    |          |      |      |
| Port Moresby    | eP   | 17 00 53           |    |          | 2945 | 26°5 |
| Warramunga      | eP   | 01 05              |    |          | 3100 | 27°9 |
| Oishiyama       | eP   | 10°9               |    |          | 3155 | 28°4 |
| Rabaul          | iP   | 11 <sup>D</sup>    | eS | 05 52    | 3135 | 28°2 |
| Keravat         | eP   | 11°5 <sup>D</sup>  |    |          | 3120 | 28°1 |
| Abuyama         | eP   | 18°0               |    |          |      |      |
| Kiyosumi        | eP   | 33°2               |    |          | 3445 | 31°0 |
| Dodaira         | iP   | 35°9               |    |          | 3490 | 31°4 |
| Matsushiro      | P    | 37                 | eS | 06 48    |      |      |
| Mt. Tsukuba     | eP   | 39                 |    |          | 3545 | 31°9 |
| Charters Towers | iP   | 55                 | iS | 07 02    | 3700 | 33°3 |
| Vladivostok     | eP   | 02 22 <sup>C</sup> |    |          | 4045 | 36°4 |
| Honiara         | eP   | 28                 |    |          | 4155 | 37°4 |
| Kalgoorlie      | iP   | 31 <sup>C</sup>    |    |          |      |      |

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|                 |    |                    |            |      |      |
|-----------------|----|--------------------|------------|------|------|
| Shillong        | iP | 17 02 33           |            | 4180 | 37'6 |
| Mundaring       | iP | 48'6               |            | 4420 | 39'8 |
| Meekatharra     | iP | 59'1 <sup>C</sup>  |            |      |      |
| Chatra          | iP | 03 10 <sup>C</sup> |            |      |      |
| Brisbane        | iP | 12'7               |            | 4745 | 42'7 |
| Adélaïde        | iP | 18'6               |            | 4810 | 43'3 |
| Oulan_Bator     | iP | 25                 | S 17 09 59 |      |      |
| Madras          | eP | 39                 |            |      |      |
| Esen_Boulak     | P  | 44                 |            |      |      |
| Canberra        | PP | 50                 | e 10 44    | 5245 | 47'2 |
| Toolangi        | eP | 54                 | e 04 09    | 5310 | 47'8 |
| Irkoutsk        | eP | 04 02 <sup>C</sup> |            | 5410 | 48'7 |
| Koumac          | e  | 05                 |            | 5155 | 46'4 |
| Nouméa          | iP | 13 <sup>C</sup>    |            | 5655 | 50'9 |
| New Dehli       | eP | 17                 |            | 5790 | 52'1 |
| Dehra_Dun       | eP | 17                 |            |      |      |
| Bodajbo         | eP | 24 <sup>C</sup>    |            | 5745 | 51'7 |
| Poona           | eP | 27                 |            | 5790 | 52'1 |
| Savannah        | iP | 27'9 <sup>C</sup>  |            | 5790 | 52'1 |
| Tarraleah       | iP | 30'1 <sup>C</sup>  |            | 5810 | 52'3 |
| Moorlands       | eP | 32                 |            | 5855 | 52'7 |
| Tasmanian Univ. | iP | 35'6 <sup>C</sup>  |            | 5910 | 53'2 |
| Yakoutsck       | eP | 48 <sup>C</sup>    |            | 6120 | 55'1 |
| Talgar          | iP | 57                 |            | 6230 | 56'1 |
| Warsak          | eP | 05 03'3            |            |      |      |
| Semipalatinsk   | eP | 06'9               |            | 6420 | 57'8 |
| Frounze         | eP | 07                 |            | 6410 | 57'7 |
| Quetta          | eP | 23'3               |            | 6665 | 60'0 |
| Samarkand       | eP | 37                 |            | 6900 | 62'1 |
| Tiksi           | eP | 53                 |            | 7190 | 64'7 |
| Kizyl_Arvat     | eP | 06 33              |            | 7800 | 70'2 |
| Sverdlovsk      | eP | 35                 |            | 7900 | 71'1 |
| Chiraz          | eP | 39                 |            | 8010 | 72'1 |
| Sparrevohn      | eP | 07 07              |            | 8700 | 78'3 |
| Mitny           | eP | 09                 |            | 8565 | 77'1 |
| Kirovabad       | P  | 13                 |            | 8655 | 77'9 |
| Goris           | eP | 14                 |            | 8655 | 77'9 |
| Tabriz          | eP | 14                 |            | 8645 | 77'8 |
| Big Mountain    | eP | 17                 |            | 8700 | 78'3 |
| Barrow          | eP | 22                 |            | 8820 | 79'4 |
| Kheis           | eP | 24                 |            | 8855 | 79'7 |
| Bakouriani      | eP | 26'7               |            | 8890 | 80'8 |
| Tanana          | eP | 28'2               |            | 8935 | 80'4 |
| College         | eP | 36                 |            | 9120 | 82'1 |
| Pedro Dome      | eP | 38'2               |            | 9145 | 82'3 |
| Mts Sheep Creek | eP | 39                 |            | 9145 | 82'3 |
| Black Rapids    | eP | 41                 |            | 9220 | 83'0 |
| Apatity         | iP | 51'4 <sup>D</sup>  |            | 9420 | 84'8 |
| Sodankylä       | eP | 08 03              |            | 9700 | 87'3 |

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|                |       |                   |     |            |       |       |
|----------------|-------|-------------------|-----|------------|-------|-------|
| Kajaani        | iP    | 17 08 04          | i   | 17 08 11.2 | 9720  | 87.5  |
| Oulu           | iP    | 06.8              |     |            |       |       |
| Mould Bay      | eP    | 11                |     |            | 9890  | 89.0  |
| Kiruna         | iP    | 12.5              |     |            | 9945  | 89.5  |
| Nairobi        | eP    | 13.6              |     |            |       |       |
| Nurmijaerwi    | iP    | 14.3              | i   | 29         | 9965  | 89.7  |
| Station Nord   | P     | 15                |     |            | 9990  | 89.9  |
| Uméa           | iP    | 19                |     |            |       |       |
| Uppsala        | eP    | 31                |     |            |       |       |
| Coppermine     | eP    | 33.5 <sup>C</sup> |     |            | 10455 | 94.1  |
| Oujgorod       | eP    | 34                |     |            | 10455 | 94.0  |
| Skalstugan     | eP    | 35                |     |            |       |       |
| Resolute       | eP    | 37.1              |     |            | 10535 | 94.8  |
| Uddeholm       | iP    | 38.7              |     |            |       |       |
| Niedzica       | eP    | 42 <sup>D</sup>   | e   | 09 06      |       |       |
| South Pole     | eP    | 48.4              |     |            | 10755 | 96.8  |
| Pruhonice      | eIP   | 57                |     |            | 10930 | 98.4  |
| Collm          | eP    | 58                |     |            | 10980 | 98.8  |
| Byrd           | eP    | 09 06.9           |     |            | 11210 | 100.9 |
| St. Saulge     | iPn   | 07.9              |     |            |       |       |
| Les Buteaux    | iPn   | 10.3              |     |            |       |       |
| Sommée Lormes  | iPn   | 12                |     |            |       |       |
| Blue M.        | eP    | 16.5              |     |            | 11490 | 103.4 |
| Uinta Basin    | (PKP) | 13 35             |     |            | 12290 | 110.6 |
| Digway         | PKP   | 48.6              |     |            | 12045 | 108.4 |
| Tonto Forest   | PKP   | 53.5              | ePP | 14 38.5    | 12455 | 112.1 |
| Wichita M.     | PKP   | 14 08.4           | ePP | 15 38.0    | 13435 | 120.9 |
| Cumberland Pl. | PKP   | 25.5              |     |            | 14255 | 128.3 |
| Lamto          | PKP   | 26.2              |     |            | 14400 | 129.6 |
| La Paz         | PKP   | 15 20             | e   | 30.6       | 18120 | 163.1 |
| Penas          | PKP   | 21.4              | i   | 31.8       | 18100 | 162.9 |

inscrit à Port Vila - Nat.Univ.Mexico - Karlsruhe.

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Bord Nord des Apennins (Italie)

44° 4 N ; 12° 0 E ; H = 17h.08<sup>mn</sup>09<sup>s</sup>. (BCIS)

Ressenti V à Faenza, Forli, Cotignola.

|                  |      |            |      |            |     |     |
|------------------|------|------------|------|------------|-----|-----|
| Padova           | iPg  | 17 08 31.8 | iSg  | 17 08 46.3 | 110 | 1.0 |
| Trieste          | eiPn | 37         | iSn  | 09 08      | 195 | 1.8 |
| Ljubljana        | iPn  | 47.5       | iSn  | 17.7       | 270 | 2.4 |
| Lanslevillard    | eiPn | 09 03.8    | i    | 07.8       | 420 | 3.8 |
| Fürstenfeldbruck | eiPn | 07         | iSn  | 57         | 420 | 3.8 |
| Roselend         | ePn  | 09.3       | eiSn | 10 00      | 450 | 4.1 |
| Zagreb           | ePg  | 09.8       | eSg  | 09 55.1    | 350 | 3.2 |
| Monteynard       | ePn  | 17.5       |      |            | 510 | 4.6 |
| Welschbruch      | eiP  | 20.8       | i    | 10 21.8    |     |     |

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|                 |      |                   |        |          |     |     |
|-----------------|------|-------------------|--------|----------|-----|-----|
| Kasperské Hory  | eIPn | 17 09 21          | eISn   | 17 10 16 | 540 | 4·9 |
| Vouglans        | eIPn | 21·9              | e1(Sg) | 42       | 550 | 4·9 |
| Wien            | ePn  | 32                | iSn    | 17       | 545 | 4·9 |
| Bühlerhöhe      | iPn  | 22·9              | iSn    | 19·4     | 555 | 5·0 |
| Champ du Feu    | iPn  | 25                |        |          | 575 | 5·2 |
| Strasbourg      | ePn  | 26                | eISg   | 57       | 560 | 5·0 |
| Haudompré       | iPn  | 26·9              |        |          | 590 | 5·3 |
| Erlangen        | ePn  | 29 <sup>C</sup>   | eSn    | 24·7     | 590 | 5·3 |
| L'Aquila        | eSg  | 30                |        |          | 255 | 2·3 |
| Bratislava      | eIP  | 30·4              | i(S)   | 11 12·4  | 575 | 5·2 |
| Pruhonice       | eIPn | 35                | eISn   | 10 40    | 650 | 5·9 |
| Les Buteaux     | iPn  | 38·4              |        |          | 635 | 6·2 |
| Sommée Lormes   | iPn  | 41·1              |        |          | 710 | 6·4 |
| Stuttgart       | ePg  | 42·1 <sup>D</sup> | iSg    | 48       | 530 | 4·8 |
| St. Saulge      | iPn  | 43                |        |          | 725 | 6·5 |
| Garchy          | ePn  | 47·8              | i      | 09 54·7  | 765 | 6·9 |
| Srobarova       | eIPg | 51                |        |          | 620 | 5·6 |
| Collm           | ePn  | 52                | i      | 12 05    | 770 | 6·9 |
| Karlsruhe       | ePg  | 52                | iSg    | 10 53    | 580 | 5·2 |
| Toulx Ste Croix | ePn  | 52·3              |        |          | 795 | 7·1 |
| Bensberg        | ePg  | 10 25·2           | e      | 11 27·5  | 815 | 7·3 |
| Raciborz        | eSb  | 11 46             |        |          | 785 | 7·1 |
| Krakow          | eSb  | 12 06             | e(Sg)  | 12 20    | 870 | 7·8 |

inscrit à Istanbul Utı - Bologna - Pavia - Praha - Porto.

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Iles Kouriles

46°4 N ; 153°3 E ; h = 50 km ; H = 18h.08mm38.1s.(CGS)  
 46°6 N ; 153°0 E ; H = 18h.08mm36s.(URSS)

M. = 5·1(Shillong); 5·0(Bozeman SSS - Uinta Basin - Nurmijaerwi);  
 4·8(College); 4·7(CGS - Blue M. - Eureka); 4·5(URSS - Wichita M.);  
 4·4(Dugway); 4·2(Mt. Tsukuba); 4·1(Tonto Forest).

|                   |    |                    |    |          |      |      |
|-------------------|----|--------------------|----|----------|------|------|
| Youjno-Sakhalinsk | eP | 18 10 23           | eS | 18 11 43 |      |      |
| Petropavlovsk     | eP | 24                 |    |          |      |      |
| Mt. Tsukuba       | eP | 11 59·6            |    |          | 1580 | 14·2 |
| Matsushiro        | P  | 12 00              |    |          |      |      |
| Kiyosumi          | eP | 04·1               |    |          | 1665 | 15·0 |
| Dodaira           | eP | 08·1               |    |          | 1645 | 14·8 |
| Vladivostok       | eP | 09                 |    |          |      |      |
| Oishiyawa         | eP | 48                 |    |          | 2045 | 18·4 |
| Yakoutsk          | iP | 13 14 <sup>D</sup> |    |          |      |      |
| Sécul             | eP | 16                 |    |          | 2380 | 21·4 |
| Bodajbo           | iP | 14 07 <sup>D</sup> |    |          |      |      |
| Tiksi             | eP | 21                 |    |          |      |      |
| Barrow            | eP | 15 21              |    |          | 3800 | 34·2 |
| College           | iP | 40                 |    |          | 4035 | 36·3 |
| Mould Bay         | eP | 16 50              |    |          | 4990 | 44·9 |

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|                |     |                      |              |      |      |
|----------------|-----|----------------------|--------------|------|------|
| Semipalatinsk  | eP  | 18 17 01.1           |              |      |      |
| Resolute       | iP  | 37                   |              | 5680 | 51.1 |
| Talgar         | iP  | 42 <sup>C</sup>      |              |      |      |
| Shillong       | iP  | 46                   |              | 5835 | 52.5 |
| Chatra         | eP  | 18 06 <sup>D</sup>   |              |      |      |
| Tachkent       | eP  | 16                   |              |      |      |
| Edmonton       | iP  | 17                   |              | 6265 | 50.4 |
| Newport        | eP  | 21                   |              | 6365 | 57.3 |
| Nordman        | iP  | 21.9                 |              | 6345 | 57.1 |
| Garm           | eP  | 31                   |              |      |      |
| Hungry Horse   | eP  | 33.7                 |              | 6545 | 58.9 |
| Dehra Dun      | eP  | 34 <sup>C</sup>      |              |      |      |
| Blue M.        | eP  | 35                   |              | 6580 | 59.2 |
| Sodankylä      | eP  | 37                   |              |      |      |
| Øroville       | eP  | 39.7                 |              | 6645 | 59.8 |
| New Dehli      | eP  | 44                   |              |      |      |
| Kiruna         | iP  | 44.8                 |              |      |      |
| Oulu           | eP  | 51                   |              |      |      |
| Jamestown      | P   | 51.8 <sup>C</sup>    |              | 6835 | 61.5 |
| Mt. Hamilton   | P   | 52.9                 |              | 6790 | 61.1 |
| Priest         | P   | 53 <sup>C</sup>      |              | 6935 | 62.4 |
| Kajaani        | eP  | 54                   |              | 6865 | 61.9 |
| Bozeman SSS    | eP  | 54.9 e               | 18 19 07     | 6880 | 61.9 |
| Eureka         | iP  | 19 04                |              | 7020 | 63.2 |
| Uma            | iP  | 06.9 <sup>C</sup>    |              |      |      |
| Dugway         | eP  | 13.1 e               | 23.4         | 7180 | 64.6 |
| Nurmi jaerwi   | iP  | 16                   |              | 7290 | 65.6 |
| Frobisher      | eP  | 16                   |              | 7255 | 65.3 |
| Skalstugan     | iP  | 20                   |              |      |      |
| Quetta         | eP  | 23.7 <sup>D</sup>    |              | 7390 | 66.5 |
| Uinta Basin    | eP  | 24.8                 | epP 36       | 7380 | 66.4 |
| Poona          | eP  | 32                   |              | 7735 | 69.6 |
| Uppsala        | iP  | 32.2 <sup>C</sup>    |              |      |      |
| Warramunga     | eP  | 33                   |              | 7590 | 68.3 |
| Glamis         | P   | 35 i                 | 48           | 7565 | 68.1 |
| Lillehammer    | eP  | 37                   |              | 7620 | 68.6 |
| Uddeholm       | eP  | 37.9                 |              |      |      |
| Yonkers        | eP  | 40                   |              |      |      |
| Tonto Forest   | eP  | 44.4                 | epCP 56.2    | 7720 | 69.5 |
| Golden         | eP  | 51.5                 |              | 7690 | 69.2 |
| Kirovabad      | P   | 54                   |              |      |      |
| Albuquerque    | eP  | 57.5                 |              | 7990 | 71.9 |
| Chiraz         | iP  | 20 20.9 <sup>C</sup> |              | 8400 | 75.6 |
| Niedzica       | eP  | 22                   |              |      |      |
| Kermanshah     | eP  | 24                   |              |      |      |
| Wichita M.     | eP  | 25                   | epCP 20 35.6 | 8510 | 76.6 |
| Collm          | iP  | 25.7 <sup>D</sup>    |              | 8535 | 76.8 |
| Pruhonicé      | eP  | 31                   |              | 8610 | 77.5 |
| Moxa           | eP  | 32                   |              | 8645 | 77.8 |
| Kasperské Hory | edP | 36                   |              | 8735 | 78.6 |
| Erlangen       | eP  | 37.4 <sup>D</sup>    |              |      |      |
| Sommée Lormes  | eP  | 59                   |              | 9210 | 82.9 |

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|                   |                   |            |    |            |       |
|-------------------|-------------------|------------|----|------------|-------|
| St. Saülge        | eP                | 18 21 01.2 |    | 9235       | 88.1  |
| Les Buteaux       | eP                | 01.8       |    |            |       |
| Roselend          | eP                | 02         |    |            |       |
| Lanslevillard     | eP                | 05         | ei | 18 21 07.1 |       |
| La Paz            | ePKP              | 27 54      |    |            |       |
| Penas             | ePKP              | 59.1       |    |            |       |
| South Pole        | PKP               | 28 04.1    |    | 15135      | 136.2 |
| Novo-Lazarevskaya | ePKP <sub>1</sub> | 19.5       |    |            |       |

Inscrit à Istanbul UTI.

XXI.- 11 Janvier

Crête médiane de l'Océan Pacifique Sud

55° 2 S ; 130° 4 W ; h = 33<sup>km</sup> ; H = 18h.24<sup>mn</sup>52<sup>s</sup>. (CGS)

M. = 4.9(Wichita M.) ; 4.8(Penas) ; 4.6(CGS - Eureka) ; 4.1(Tonto Forest).

|                 |      |                      |     |          |            |
|-----------------|------|----------------------|-----|----------|------------|
| Eyrd            | eP   | 18 30 15.6           |     | 2800     | 25.2       |
| South Pole      | eP   | 31 43.7              |     | 3890     | 35.0       |
| Karapiro        | eP   | 32 26                |     |          |            |
| Mimry           | eP   | 34 20                |     | 6035     | 54.3       |
| Toolangi        | eP   | 41                   |     | 6335     | 57.0       |
| La Paz          | eP   | 35 03.7              |     | 6755     | 60.8       |
| Penas           | P    | 03.5                 |     | 6755     | 60.8       |
| Charters Towers | eP   | 36 02                | 1S  | 18 45 12 | 7780 70.0  |
| Warramunga      | eP   | 39                   |     |          |            |
| Tucson          | eP   | 37 44                |     | 9855     | 88.7       |
| Glamis          | P    | 45                   | i   | 37 52    | 9880 88.9  |
| Tonto Forest    | eP   | 49.9                 | eS  | 48 57    | 10065 90.6 |
| Albuquerque     | dP   | 58                   |     | 10235    | 92.1       |
| Wichita M.      | eP   | 38 05.9              |     | 10400    | 93.6       |
| Eureka          | 1P   | 13.9                 |     | 10565    | 95.1       |
| Canberra        | e(S) | 42 32                |     |          |            |
| Bangui          | PKP  | 43 46.9              |     | 13720    | 123.5      |
| Quetta          | PKP  | 44 47.6              |     | 16900    | 152.1      |
| Caracas         | eS   | 47 37.4 <sup>C</sup> | ePS | 48 36    |            |

Inscrit à Windhoek - Nat.Univ.Mexico. - Uinta Basin - Wellington.

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Drakensberg (Lesouto)

30° 3 S ; 23° 6 E ; H = 19h.50<sup>mn</sup>27<sup>s</sup>. (Bilawayo)

M. = 3.9(Bilawayo)

|                  |     |          |     |          |
|------------------|-----|----------|-----|----------|
| Pietermaritzburg | 1P  | 19 50 59 | 1S  | 19 51 23 |
| Bilawayo         | ePn | 52 52    | eSn | 54 39    |

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|             |    |          |    |          |
|-------------|----|----------|----|----------|
| Karoi       | eP | 19 53 32 | IS | 19 55 54 |
| Broken Hill | eP | 54 08    | eS | 56 50    |

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Guatémala

14° 3 N ; 89° 9 W ; h = 197 km ; H = 20h.48mm59s. (CGS)

M. = 5.7 (Presa Benito J.); 4.4 (CGS); 4.3 (Uinta Basin); 4.1 (Golden - Penas);  
4.0 (Wichita M.); 3.7 (Blue M.)

|                 |    |          |     |            |      |      |
|-----------------|----|----------|-----|------------|------|------|
| Presa Benito J. | eP | 20 50 24 | eS  | 20 51 07.3 | 645  | 5.8  |
| Wichita M.      | eP | 53 36.2  | ePP | 54 14.9    | 2420 | 21.8 |
| Golden          | eP | 54 40.6  |     |            | 3190 | 28.7 |
| Uinta Basin     | eP | 55 02.3  |     |            | 3455 | 31.1 |
| Bozeman SSS     | eP | 45.5     |     |            | 4020 | 36.2 |
| Penas           | P  | 52.1     |     |            | 4110 | 37.0 |
| Blue M.         | eP | 56 01.6  |     |            | 4255 | 38.3 |

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Région frontière Chili-Argentine

24° 4 S ; 67° 0 W ; h = 147 km ; H = 22h.28mm17s. (CGS)

M. = 4.8 (Penas); 4.7 (Cumberland Pl.); 4.6 (Albuquerque); 4.4 (CGS -  
Wichita M.); 4.1 (Tonto Forest - Uinta Basin - Dugway); 4.0 (Blue M.).

|                |     |            |        |          |      |      |
|----------------|-----|------------|--------|----------|------|------|
| Antofagasta    | eP  | 22 27 11.1 | eS     | 22 27 47 |      |      |
| Cochabamba     | P   | 58.7       |        |          |      |      |
| La Paz         | eP  | 28 13      | eS     | 29 43.2  |      |      |
| Penas          | eP  | 17         | S      | 45.4     | 910  | 8.2  |
| Arequipa       | eIP | 23.4       | IS     | 57.1     | 1000 | 9.0  |
| Cumberland Pl. | eP  | 36 24.1    |        |          | 6910 | 62.2 |
| Wichita M.     | eP  | 48.7       | ePcP   | 37 19.6  | 7335 | 66.0 |
| Lamto          | P   | 37 00      |        |          | 7510 | 67.6 |
| Albuquerque    | eP  | 14.8       |        |          | 7765 | 69.9 |
| Tucson         | eP  | 16.5       |        |          | 7800 | 70.2 |
| Tonto Forest   | eP  | 27.6       |        |          | 7990 | 71.9 |
| Uinta Basin    | eP  | 42.8       | e(PcP) | 48.4     | 8400 | 75.6 |
| Dugway         | eP  | 57.1       |        |          | 8565 | 77.1 |
| Blue M.        | eP  | 38 26.2    |        |          | 9200 | 82.8 |

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Région des Iles Revilla Gigedo

18° 8 N ; 108° 8 W ; h = 33 km ; H = 22h.39mm00s. (CGS)  
M. = 4.2 (Dugway); 3.9 (CGS - Tonto Forest - Uinta Basin); 3.8 (Blue M.).  
3.8 (Wichita M.).

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|                   |      |            |     |            |       |       |
|-------------------|------|------------|-----|------------|-------|-------|
| Presa Infiernillo | eP   | 22 40 39.5 |     |            |       |       |
| Presa Benito J.   | iP   | 42 04      |     |            |       |       |
| Tucson            | e(P) | 17.5       |     |            | 1510  | 13.6  |
| Glamis            | P    | 33         |     |            | 1690  | 15.2  |
| Tonto Forest      | eP   | 37.0       | ePP | 22 43 42.0 | 1735  | 15.6  |
| Albuquerque       | eP   | 48         |     |            | 1800  | 16.2  |
| Wichita M.        | eP   | 43 11.7    | eS  | 46 27      | 2035  | 18.3  |
| Nat. Mexico Univ. | e(S) | 16         |     |            |       |       |
| Dugway            | eP   | 48.5       |     |            | 2400  | 21.6  |
| Eureka            | eP   | 48.5       |     |            | 2390  | 21.5  |
| Uinta Basin       | eP   | 49.4       | eS  | 47 52      | 2390  | 21.5  |
| Blue M.           | eP   | 44 40.5    |     |            | 2990  | 26.9  |
| La Paz            | eP   | 48 14      |     |            |       |       |
| Penas             | eP   | 18.4       |     |            |       |       |
| Mould Bay         | eP   | 48         |     |            | 6410  | 57.7  |
| New Dehli         | PKP  | 58 14      |     |            | 14710 | 132.4 |

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H = 00h. 12<sup>mn</sup>(25)S.; M. = 5.4(Rabaul)

|              |    |            |      |          |
|--------------|----|------------|------|----------|
| Rabaul       | iP | 00 13 20.0 | i(S) | 00 13 32 |
| Keravat      | iP | 23.5       | iS   | 14 01    |
| Honiara      | eP | 50.5       | iS   | 15 03.0  |
| Rabalanakaia | iP | 14 20.2    |      |          |
| Port Moresby | eP | 22         | eS   | 55       |

II.- 12 Janvier

République Sud Africaine

33° 1 S ; 23° 5 E ; h = 12<sup>km</sup> ; H = 01h.00<sup>mn</sup>07.0S. (CGS)  
 33° 3 S ; 23° 6 E ; H = 01h.00<sup>mn</sup>08S. (Bulawayo)

Ressenti à Paarl et Ottenhage

M. = 5.5(Bulawayo - Bangui); 5.4(Windhoek); 5.2(CGS); 5.1(Penas);  
 4.9(La Paz).

|                  |     |                      |     |           |      |      |
|------------------|-----|----------------------|-----|-----------|------|------|
| Grahamstown      | iPn | 01 00 49.3           |     |           | 290  | 2.6  |
| Hermanus         | eP  | 01 15                |     |           | 420  | 3.8  |
| Kimberley        | iPn | 20                   |     |           | 500  | 4.5  |
| Pietermaritzburg | iPn | 51                   | iSg | 01 03(40) | 770  | 6.9  |
| Changalane       | iP  | 02 37.0 <sup>C</sup> | iS  | 04 20.2   | 1130 | 10.2 |
| Windhoek         | iPn | 58.5                 | iSn | 54.0      | 1330 | 12.0 |
| Bulawayo         | eP  | 03 29                | iS  | 05 53     | 1520 | 13.7 |
| Karoi            | eP  | 04 06                | eS  | 07 10     | 1900 | 17.1 |
| Broken Hill      | eP  | 30                   | eS  | 57        | 2130 | 19.2 |
| Sa da Bandeira   | iP  | 45.2                 |     |           | 2255 | 20.3 |
| Butare           | iP  | 06 33.4              | eIS | 11 14.2   |      |      |



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|               |     |                    |                   |            |       |       |
|---------------|-----|--------------------|-------------------|------------|-------|-------|
| Nairobi       | eP  | 01 07 02           |                   |            |       |       |
| Bangui        | 1P  | 24.5               | 1S                | 01 13 28.8 | 4180  | 37.6  |
| Lamto         | P   | 08 45.3            |                   |            | 5290  | 47.6  |
| South Pole    | 1P  | 09 53.5            |                   |            | 6330  | 57.0  |
| Tamanrasset   | 1P  | 10 04 <sup>D</sup> |                   |            | 6470  | 58.2  |
| Byrd          | eP  | 50.4               |                   |            | 7245  | 65.2  |
| Chiraz        | eP  | 11 11              |                   |            | 7610  | 68.5  |
| Quetta        | eP  | 55.0 <sup>C</sup>  |                   |            | 8355  | 75.2  |
| Cochabamba    | eP  | 12 20.3            |                   |            |       |       |
| La Paz        | eP  | 31.0               |                   |            | 9155  | 82.4  |
| Penas         | P   | 34.1               |                   |            | 9190  | 82.9  |
| Arequipa      | 1P  | 47.2               |                   |            | 9470  | 85.2  |
| Wilchita M.   | PKP | 19 22.5            |                   |            | 14720 | 132.5 |
| Tucson        | PKP | 36.4               |                   |            | 15755 | 141.8 |
| Uinta Basin   | PKP | 36.6               |                   |            |       |       |
| Tonto Forest  | PKP | 38.7               | eSKP <sub>1</sub> | 23 15.4    |       |       |
| Edmonton      | PKP | 40.0               |                   |            |       |       |
| Dugway        | PKP | 44.1               |                   |            |       |       |
| Hungry Horse  | PKP | 45.5               |                   |            |       |       |
| Nordman       | PKP | 48.0               |                   |            |       |       |
| Newport       | PKP | 50.0               |                   |            |       |       |
| Goldstone     | PKP | 52.0               |                   |            |       |       |
| Eureka        | PKP | 52.4               |                   |            |       |       |
| Gilmore Creek | PKP | 53.2               |                   |            |       |       |
| College       | PKP | 53.4               |                   |            |       |       |
| Blue M.       | PKP | 54.4               |                   |            |       |       |
| Penticton     | PKP | 56                 |                   |            |       |       |
| San Luis Dam  | PKP | 59.3               |                   |            |       |       |
| Jamestown     | PKP | 20 01.5            |                   |            |       |       |
| Palmer        | PKP | 02.6               |                   |            |       |       |
| Oroville      | PKP | 03.5               |                   |            |       |       |

III.- 12 Janvier

Shikok (Japon)

33° 6' N ; 132° 2' E ; h = 19 km ; H = 02h.58<sup>mn</sup>30.8<sup>s</sup>. (CGS)  
 33° 03' N ; 132° 30' E ; h = 50 km ; H = 02h.58<sup>mn</sup>35.1<sup>s</sup>. (JMA)  
 32° 5' N ; 132° 8' E ; H = 02h.58<sup>mn</sup>25<sup>s</sup>. (URSS)

M. = 5.6 (Mt. Tsukuba) ; 5.2 (Kajaani - Nurmijaerwi) ; 5.1 (Newport - Eureka -  
 Dugway) ; 5.0 (CGS) ; 4.9 (Bozeman SSS) ; 4.8 (Palmer - Uinta Basin -  
 Wilchita M. - J.M.A.) ; 4.6 (Blue M.) ; 4.1 (Tonto Forest).

|            |    |            |    |            |     |     |
|------------|----|------------|----|------------|-----|-----|
| Uwajima    | 1P | 02 58 45.6 | 1S | 02 58 51.0 |     |     |
| Hiroshima  | P  | 51.8       | 1S | 59 03.4    |     |     |
| Muroto     | 1P | 58.6       | 1S | 14.8       |     |     |
| Wakaura    | 1P | 59 11.6    | 1S | 36.0       | 280 | 2.5 |
| Sumoto     | 1P | 09.5       | Z  | 26.2       |     |     |
| Oishiyama  | 1P | 12.7       |    |            | 290 | 2.6 |
| Abuyama    | 1P | 18.7       |    |            |     |     |
| Gi fu      | eP | 36.5       |    |            |     |     |
| Matsushiro | 1P | 58.1       | S  | 03 01 10   |     |     |

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|                   |       |            |       |            |  |       |       |
|-------------------|-------|------------|-------|------------|--|-------|-------|
| Séoul             | eP    | 02 59 58.2 |       |            |  |       |       |
| Dodaira           | 1P    | 03 00 04.9 | i     | 03 00 14.3 |  | 645   | 5.8   |
| Kyosumi           | eP    | 12.2       |       |            |  | 690   | 6.2   |
| Mt. Tsukuba       | 1P    | 14.1       | eS    | 02 15.8    |  | 755   | 6.8   |
| Vladivostok       | eP    | 55         |       |            |  | 780   | 7.0   |
| Anpu              | eP    | 01 32.0    |       |            |  | 1390  | 12.5  |
| Youjno_Sakhalinsk | eP    | 02 13      |       |            |  |       |       |
| Bodajbo           | 1P    | 04 17      |       |            |  |       |       |
| Tiksi             | eP    | 05 48      |       |            |  |       |       |
| Talgar            | eP    | 06 35      |       |            |  |       |       |
| Garm              | eP    | 07 21      |       |            |  |       |       |
| Barrow            | eP    | 42.0       | i     | 07 58.0    |  | 5830  | 52.5  |
| Sverdlovsk        | eP    | 46         |       |            |  |       |       |
| Warramunga        | eP    | 48.5       |       |            |  |       |       |
| Charters Towers   | 1P    | 08 01.3    |       |            |  | 6110  | 56.0  |
| College           | eP    | 05.0       |       |            |  | 6220  | 56.0  |
| Palmer            | eP    | 07.9       |       |            |  | 6200  | 55.8  |
| Gilmore Creek     | eP    | 11.1       |       |            |  | 6230  | 56.1  |
| Pedro Dome        | 1P    | 11.2       |       |            |  | 6230  | 56.1  |
| Black Rapids      | eP    | 17.0       |       |            |  | 6330  | 57.0  |
| Mould Bay         | eP    | 50.0       |       |            |  | 6880  | 61.9  |
| Alert             | eP    | 09 06      |       |            |  |       |       |
| Sodankylä         | eP    | 12         |       |            |  | 7230  | 65.1  |
| Chiraz            | P     | 17.8       |       |            |  | 7330  | 66.0  |
| Kajaani           | 1P    | 18.2       |       |            |  | 7370  | 56.3  |
| Oulu              | eP    | 18.9       |       |            |  |       |       |
| Uméa              | 1P    | 37.4       |       |            |  |       |       |
| Nurmijaerwi       | 1P    | 39.2       |       |            |  | 7700  | 69.3  |
| Yellowknife       | eP    | 45.5       |       |            |  |       |       |
| Lillehammer       | 1P    | 10 09.3    |       |            |  | 8270  | -4.4  |
| Skalstugan        | 1P    | 10.0       |       |            |  |       |       |
| Uppsala           | eP    | 11         |       |            |  |       |       |
| Uddeholm          | 1P    | 19.8       |       |            |  |       |       |
| Edmonton          | eP    | 22.0       |       |            |  | 8510  | 76.6  |
| Nordman           | eP    | 27.0       |       |            |  | 8620  | 77.6  |
| Newport           | 1P    | 28.2       |       |            |  | 8630  | 77.7  |
| Niedzica          | e1P   | 29D        | ePCP  | 03 10 42   |  |       |       |
| Hungry Horse      | eP    | 37.3       |       |            |  | 8810  | 79.3  |
| Blue M.           | eP    | 48.7       |       |            |  | 8855  | 79.7  |
| Collm             | eP    | 41         |       |            |  | 8900  | 80.1  |
| Oroville          | 1P    | 41.5       |       |            |  | 8920  | 80.3  |
| Butte             | eP    | 45.9       | e     | 18 24.0    |  | 90.0  | 81.6  |
| Bozeman SSS       | eP    | 53.7       |       |            |  | 9145  | 82.3  |
| Eureka            | 1P    | 11 01.2    |       |            |  | 9310  | 83.8  |
| Dugway            | eP    | 08.5       |       |            |  | 9470  | 85.2  |
| Goldstone         | P     | 11.0       |       |            |  | 9545  | 85.9  |
| Uinta Basin       | eP    | 17.1       |       |            |  | 9870  | 87.0  |
| Tonto Forest      | eP    | 31.4       |       |            |  | 10000 | 90.0  |
| Albuquerque       | eP    | 42.5       |       |            |  | 10270 | 92.4  |
| Wichita M.        | eP    | 12 00.7    |       |            |  | 10780 | 97.0  |
| Novo Lazarevskaya | 1PKP1 | 17 30C     |       |            |  |       |       |
| Penas             | PKP   | 18 25.0    | UDPKP | 47.6       |  | 17220 | 155.0 |
| La Paz            | PKP   | 26         |       |            |  |       |       |

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Cochabamba PKP 03 18 26.2  
 Arequipa PKP 28.9 16970 152.7

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 Iles Kermadac

27°2S, 177°2W h = 90km H = 03<sup>105</sup>mn 18.5S (CGS)

M = 6.2 (South Pole), 5.5 (Wichita M), 5.4 (Albuquerque, Bozeman SSS),  
 5.3 (Uinta Basin, Tucson, Eureka, CGS, Berkeley), 5.1 (Tonto Forest,  
 Blue M), 4.8 (Digway, Golden).

|                 |     |          |       |           |       |      |
|-----------------|-----|----------|-------|-----------|-------|------|
| Raoul Island    | iP  | 03 05 53 |       |           | 230   | 2.1  |
| Onerahi         | eP  | 07 06    |       |           |       |      |
| Karapiro        | eP  | 08 23    |       |           |       |      |
| Afiama'u        | eP  | 25       | eS    | 03 10 48  | 1580  | 14.2 |
| Port Vila       | eP  | 50.1D    |       |           |       |      |
| Nouméa          | iP  | 59.2D    |       |           |       |      |
| Lonoro'u        | eIP | 09 21.1  |       |           |       |      |
| Koumac          | iP  | 28.7D    |       |           |       |      |
| Brisbane        | eP  | 10 52    |       |           | 2970  | 26.7 |
| Honiara         | eP  | 11(08)   | e     | 16 20     | 3100  | 27.9 |
| Wellington      | eP  | 29       | eL    | 13 46     |       |      |
| Toolangi        | eP  | 47.0     |       |           | 3670  | 33.0 |
| Charters Towers | iP  | 56.8     | 1     | 12 14     | 3800  | 34.2 |
| Port Moresby    | eP  | 12 30    |       |           | 4220  | 38.0 |
| Warramunga      | eP  | 13 24D   |       |           |       |      |
| Mundaring       | iP  | 14 56.6D |       |           | 6370  | 57.3 |
| Byrd            | iP  | 15 03.4  |       |           | 6430  | 57.9 |
| South Pole      | iP  | 37.8     |       |           | 690   | 62.9 |
| Mirny           | eP  | 52.0     |       |           | 7255  | 65.3 |
| Syowa           | iP  | 17 20.9  |       |           | 8930  | 80.4 |
| Pasadena        | eP  | 33       | eR    | 03 42.5 - | 9190  | 82.7 |
| Priest          | eP  | 33.1C    | e     | 17 52.1   | 9170  | 82.5 |
| Berkeley        | eP  | 34.1C    | (SP)  | 52.7      | 9190  | 82.7 |
| Mt Hamilton     | eP  | 34.2C    |       |           | 9190  | 82.7 |
| San Luis Dam    | eP  | 34.7     |       |           | 9200  | 82.8 |
| Jamestown       | eP  | 39.4C    | e     | 58.3      | 9310  | 83.8 |
| Oroville        | iP  | 41.4     |       |           | 9370  | 84.3 |
| Glamis          | P   | 42.0     | (SP)  | 18 01.0   | 9355  | 84.2 |
| Mineral         | P   | 44.1D    |       |           |       |      |
| Tucson          | iP  | 53.7C    | e     | 13.0      | 9610  | 86.5 |
| Eureka          | iP  | 57.0     |       |           | 9720  | 87.5 |
| Tonto Forest    | eP  | 57.7     | eS    | 28 22.0   | 9710  | 87.4 |
| Dugway          | eP  | 18 07.6  |       |           | 980   | 89.8 |
| Blue M.         | eP  | 08.4     |       |           | 10010 | 90.1 |
| San Luis Dam    | eP  | 12.6     |       |           | 10090 | 90.8 |
| Albuquerque     | eP  | 14.5C    | e     | 18 33.5   | 10110 | 91.0 |
| Uinta Basin     | eP  | 18.2     |       |           | 10210 | 91.9 |
| Butte           | eP  | 24.0     |       |           | 10300 | 93.4 |
| La Paz          | P   | 25.2     |       |           |       |      |
| Bozeman SSS     | eP  | 26.0     | e(SP) | 45.0      | 10410 | 93.7 |
| College         | eP  | 28.0     |       |           | 10510 | 94.6 |
| Golden          | eP  | 29.5     |       |           | 10480 | 94.3 |
| Wichita M.      | eP  | 37.9     |       |           | 10720 | 96.5 |
| Gilmore Creek   | ePP | 47.9     |       |           | 10520 | 94.7 |

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|                |       |       |      |      |            |       |       |
|----------------|-------|-------|------|------|------------|-------|-------|
| Karoi          | 1PKP  | 03 24 | 18D  |      |            |       |       |
| Bilawayo       | ePKP  |       | (20) |      |            |       |       |
| Broken Hill    | ePKP  |       | 23D  |      |            |       |       |
| Oulu           | 1PKP  |       | 28.7 |      |            |       |       |
| Kajaani        | ePKP  |       | 29   |      |            | 15530 | 139.8 |
| Umeå           | ePKP  |       | 32   |      |            |       |       |
| Nurmijaervi    | 1PKP  |       | 39.7 |      |            | 15945 | 143.5 |
| Uppsala        | 1PKP  |       | 46.1 |      |            | 16200 | 145.8 |
| Uddeholm       | 1PKP  |       | 47.8 |      |            |       |       |
| Lillehammer    | PKP   |       | 48.0 |      |            | 16190 | 145.7 |
| Kongsberg      | 1PKP  |       | 51.3 |      |            | 16355 | 147.2 |
| Göteborg       | 1PKP  |       | 54.3 |      |            |       |       |
| Bangui         | 1PKP1 |       | 59.4 | 1PP  | 03 29 13.7 | 16970 | 152.8 |
| Niedzica       | ePKP  | 25 00 |      | ePKP | 25 08      |       |       |
| Lamto          | PKP   |       | 06.8 |      |            | 17530 | 157.8 |
| Krakow         | ePKP  |       | 08   | e    | 27         |       |       |
| Collm          | ePKP  |       | 09   |      |            | 17190 | 154.7 |
| Pruhonice      | e     |       | 29   |      |            | 17280 | 155.5 |
| Kasperské Hory | ei    |       | 33   |      |            | 17400 | 158.6 |
| Tamanrasset    | ePKP2 | 26 58 |      |      |            |       |       |

inscrit à Nat. Uni. Mexico, Penas, Rarotonga.

V. 12 décembre

Pres de la cöte, région nord du Chili.

22°7'S, 70°0'W h = 98km H = 04h06mm08s (CGS)

M = 3.9 (CGS, Penas).

|             |    |       |       |    |       |      |     |     |
|-------------|----|-------|-------|----|-------|------|-----|-----|
| Antofagasta | 1P | 04 06 | 29.1C | 1S | 04 06 | 46.4 | 120 | 1.1 |
| Cochabamba  | eP | 07    | 37.2  |    |       |      |     |     |
| Arequipa    | eP |       | 40.6  | 1S | 08    | 53.2 | 700 | 6.3 |
| La Paz      | P  |       | 41.7  | 1  | 07    | 57.0 | 710 | 6.4 |
| Penas       | P  |       | 43.0  | 1  |       | 59.9 | 720 | 6.5 |

VI. 12 janvier

Iles Salomon

6°7'S, 155°3'E h = 64km H = 04h17mm22s (CGS)

M = 4.9 (Eureka), 4.5 (CGS), 4.1 (Blue M)

|                 |    |       |      |    |       |      |       |      |
|-----------------|----|-------|------|----|-------|------|-------|------|
| Rabaul          | 1P | 04 18 | 29.6 | 1S | 04 19 | 24.0 |       |      |
| Keravat         | 1P |       | 32.5 | 1S |       | 25.5 |       |      |
| Honiara         | eP |       | (41) |    |       |      | 600   | 5.4  |
| Port Moresby    | eP | 19    | 23   | eS | 21 00 |      |       |      |
| Charters Towers | eP | 21    | 03   |    |       |      | 1770  | 15.9 |
| Warramunga      | eP | 22    | 34   |    |       |      |       |      |
| Palmer          | eP | 29    | 23.0 |    |       |      | 8930  | 80.4 |
| College         | 1P |       | 39.7 |    |       |      | 9200  | 82.8 |
| Gilmore Creek   | eP |       | 40.3 |    |       |      | 9210  | 82.9 |
| South Pole      | eP |       | 42.7 |    |       |      | 9255  | 83.3 |
| Blue M          | eP | 30    | 23.4 |    |       |      | 10320 | 92.9 |
| Eureka          | 1P |       | 32.0 |    |       |      | 10370 | 93.3 |

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VII. 12 janvier  
Région des îles Andaman

13° 4N, 83° 1E h = 33<sup>km</sup> H = 04<sup>h</sup>17<sup>mn</sup>43.1<sup>s</sup> (CGS)

13° 2N, 83° 2E H = 04<sup>h</sup>17<sup>mn</sup>41<sup>s</sup> (URSS)

M = 5.7 (Kajaani), 5.6 (Palmer), 5.5 (CGS), 5.4 (Kevo, Nurmijaervi).

|               |      |          |        |          |      |      |
|---------------|------|----------|--------|----------|------|------|
| Chittagong    | eP   | 04 19 52 |        |          | 1000 | 9.0  |
| Shillong      | iP   | 20 31    |        |          | 1350 | 12.2 |
| Bokaro        | eP   | 38       |        |          | 1385 | 12.5 |
| Madras        | eP   | 43       | e      | 04 23 14 | 1400 | 12.6 |
| Kodaikanal    | eP   | 21 21    | i      | 24 02    | 1735 | 15.6 |
| Poona         | iP   | 22 06C   |        |          | 2135 | 19.2 |
| Bombay        | iP   | 20       |        |          | 2250 | 20.2 |
| New Dehli     | iP   | 27.9     | eS     | 28 10.0  | 2355 | 21.2 |
| Dehra Dun     | iP   | 36C      |        |          | 2425 | 21.8 |
| Mangla        | eP   | 23 18.1  |        |          | 2935 | 26.4 |
| Warsak        | P    | 37.0     |        |          | 3170 | 28.5 |
| Quetta        | iP   | 46.2C    |        |          | 3270 | 29.4 |
| Chatra        | e(S) | 24 00D   |        |          | 1610 | 14.5 |
| Garm          | eP   | 13       |        |          | 3610 | 32.5 |
| Talgar        | iP   | 16C      |        |          | 3635 | 32.7 |
| Douchambé     | iP   | 17       |        |          | 3675 | 33.1 |
| Esen Boulak   | iP   | 19       |        |          | 3665 | 33.0 |
| Frounze       | iP   | 22C      |        |          | 3710 | 33.4 |
| Tachkent      | eP   | 33D      |        |          | 3855 | 34.7 |
| Oulan Bator   | iP   | 46       |        |          | 4030 | 36.3 |
| Semipalatinsk | P    | 25 02.7  |        |          | 4280 | 38.4 |
| Chiraz        | iP   | 24       |        |          | 4510 | 40.6 |
| Oishiyama     | eP   | 45.0     |        |          | 4820 | 43.4 |
| Matsushiro    | P    | 26 08    |        |          | 5155 | 46.4 |
| Dodaira       | eP   | 13.9     |        |          | 5220 | 47.0 |
| Bodajbo       | iP   | 14C      |        |          | 5240 | 47.1 |
| Mt Tsukuba    | eP   | 17.8     |        |          | 5310 | 47.8 |
| Tabriz        | eP   | 22       |        |          | 5350 | 48.1 |
| Goris         | eP   | 25       |        |          | 5395 | 48.6 |
| Sverdlk vsk   | iP   | 35C      |        |          | 5545 | 49.9 |
| Mundaring     | iP   | 36.2D    |        |          | 5580 | 50.2 |
| Kalgoorlie    | iP   | 46.3C    |        |          | 5745 | 51.7 |
| Bakouriani    | eP   | 48.1     |        |          | 5700 | 51.3 |
| Warramunga    | eP   | 51.5     |        |          | 5820 | 52.4 |
| Yakoutsk      | iP   | 27 13C   |        |          | 6125 | 55.1 |
| Moskva        | eP   | 47       |        |          | 6655 | 59.9 |
| Tiksi         | iP   | 28 00C   |        |          | 6695 | 62.0 |
| Vrinci caia   | P    | 16.8     |        |          | 7120 | 64.1 |
| Adati ty      | iP   | 29C      |        |          | 7375 | 66.4 |
| Kajaani       | iP   | 36.0D    |        |          | 7490 | 67.4 |
| Oujgorod      | iP   | 37C      |        |          | 7485 | 67.4 |
| Nurmijaervi   | iP   | 39.8D    |        |          | 7545 | 67.9 |
| Oulu          | iP   | 42.7     |        |          | 7600 | 68.4 |
| Sodankylae    | iP   | 44.8     |        |          | 7645 | 68.8 |
| Niedzica      | eIP  | 46C      | e(PCP) | 04 29 04 | 7640 | 68.7 |

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|                  |      |           |     |          |       |       |
|------------------|------|-----------|-----|----------|-------|-------|
| Krakow           | iP   | 04 28 47C |     |          | 7670  | 690   |
| Kheis            | iP   | 47C       |     |          | 7670  | 690   |
| Kevo             | iP   | 48.6      |     |          | 7700  | 693   |
| Karoi            | iP   | 50        | i   | 04 28 56 | 7725  | 69.5  |
| Broken Hill      | iP   | 52        | i   | 58       | 7745  | 69.7  |
| Uméa             | iP   | 55.6C     |     |          | 7835  | 70.5  |
| Uppsala          | iP   | 59.2C     |     |          | 7910  | 71.2  |
| Kiruna           | iP   | 59.2C     |     |          | 7910  | 71.2  |
| Canberra         | eP   | 29 03     |     |          | 7970  | 71.7  |
| Ljubljana        | eP   | 08        |     |          | 8065  | 72.6  |
| Pruhonice        | eIP  | 08.4      |     |          | 8055  | 72.5  |
| Bilawayo         | iP   | (10)C     | i   | 29 (16)  | 7960  | 71.6  |
| Uddeholm         | iP   | 10.8      |     |          | 8140  | 73.2  |
| Kasperské Hory   | eIP  | 12        |     |          | 8130  | 73.2  |
| Collm            | eP   | 14        |     |          | 8170  | 73.5  |
| Bangui           | iP   | 16.6D     | ipp | 22.7     | 8220  | 74.0  |
| Skalstugan       | iP   | 16.7      |     |          | 8225  | 74.0  |
| Moxa             | eP   | 19        |     |          | 8270  | 74.4  |
| Erlangen         | eP   | 21.3C     |     |          | 8295  | 74.7  |
| Champ du Feu     | eP   | 35.6      |     |          | 8595  | 77.4  |
| Haudompré        | eP   | 39.0      |     |          | 8670  | 78.0  |
| Roseland         | eP   | 39.2      | e   | 29 40.4  | 8680  | 78.1  |
| La Mourre        | eP   | 41.8      |     |          | 8720  | 78.5  |
| St Paul en foret | eP   | 43.3      |     |          | 8700  | 78.3  |
| Monteynard       | eP   | 44.5      |     |          | 8760  | 78.8  |
| Garchy           | eP   | 45.8C     | i   | 52.0     | 8925  | 80.3  |
| Les Buteaux      | eP   | 49.0      |     |          | 8860  | 79.7  |
| Sommée Lormes    | eP   | 49.1      |     |          | 8865  | 79.8  |
| St Saulge        | eP   | 50.4      |     |          | 8895  | 80.0  |
| Toulx Ste Croix  | eP   | 50.4      |     |          | 9005  | 81.1  |
| St Sauveur       | eP   | 30 03.5   |     |          | 9130  | 82.2  |
| Folinjare        | eP   | 04.3      |     |          | 9155  | 82.4  |
| Tamanrasset      | iP   | 08C       |     |          | 9190  | 82.7  |
| Gorron           | eP   | 06.4      |     |          | 9190  | 82.7  |
| Le Pertre        | eP   | 07.3      |     |          | 9210  | 82.9  |
| Alert            | eP   | 10C       |     |          | 9290  | 83.6  |
| Barrow           | iP   | 10.3      |     |          | 9300  | 83.7  |
| Mould Bay        | eP   | 32.5C     |     |          | 9820  | 88.5  |
| College          | eP   | 38.0      |     |          | 9855  | 89.6  |
| Ifrane           | P    | 39.5      |     |          | 9930  | 89.4  |
| Gilmore Creek    | eP   | 39.5      |     |          | 9970  | 89.7  |
| Palmer           | eP   | 45.0      |     |          | 10090 | 90.8  |
| Blue M.          | ePKP | 36 23.4   |     |          | 12870 | 115.8 |
| Eureka           | PKP  | 34.5      |     |          | 13420 | 120.8 |
| Dugway           | PKP  | 35.3      |     |          | 13500 | 121.5 |
| Uinta Basin      | PKP  | 36.8      | ePP | 36 24.0  | 13620 | 122.6 |
| Glamis           | PKP  | 47.0      |     |          | 14080 | 126.7 |
| Tonto Forest     | PKP  | 47.6      | e   | 36 53.5  | 14130 | 127.2 |
| Albuquerque      | PKP  | 49.4      | e   | 40 10.0  | 14280 | 128.5 |
| Tucson           | PKP  | 51.0      |     |          | 14345 | 129.1 |
| Wichita M.       | PKP  | 53.2      |     |          | 14545 | 130.9 |
| Trinidad         | PKP  | 37 19.7   |     |          | 16130 | 145.2 |
| Penas            | PKP  | 36.5      | e   | 37 49.0  | 18000 | 162.0 |

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La Paz PKP 04 37 44.5 e 04 37 27.7 17955 161.6

VIII. 12 Janvier  
Région de Koyna (Indes)

17°7'N, 74°1'E H = 04h37<sup>mn</sup>31<sup>s</sup> (BCIS)

|           |     |           |       |          |      |      |
|-----------|-----|-----------|-------|----------|------|------|
| Poona     | iPg | 04 37 48D | eSg   | 04 38 02 | 100  | 0.9  |
| Bombay    | iPn | 59D       | iSn   | 22       | 195  | 1.7  |
| Goa       | ePn | 38 06     | e(Sn) | 24       | 245  | 2.2  |
| New Delhi | eP  | 40 13     | eS    | 42 09    | 1255 | 11.3 |
| Madras    | eSn | 38        | iSg   | 41 19    |      |      |
| Pokaro    | eS  | 42 50     | i     | 44 12    |      |      |

IX. 12 Janvier  
Haute Savoie (France)

46°3'N, 6°8'E H = 07h47<sup>mn</sup>10<sup>s</sup> (BCIS)

|                 |      |            |     |            |     |     |
|-----------------|------|------------|-----|------------|-----|-----|
| Roselend        | eiPg | 07 47 22.4 | iSg | 07 47 30.9 | 70  | 0.6 |
| Vouglans        | ePg  | 24         | iSg | 37.5       | 90  | 0.8 |
| Lanslevillard   | eiPg | 30.4       | iSg | 45.5       | 120 | 1.1 |
| Haudompré       | ePn  | 40.1       |     |            | 190 | 1.7 |
| Lez Buteaux     | ePn  | 44.0       |     |            | 230 | 2.1 |
| Welschbruch     | eiPn | 5.1        | iSg | 48 24.2    | 240 | 2.1 |
| Champ du Feu    | ePn  | 45.8       |     |            | 235 | 2.1 |
| Sommée Lormes   | ePn  | 48.1       |     |            | 250 | 2.2 |
| St Saulge       | ePn  | 49.2       |     |            | 265 | 2.4 |
| Garchy          | ePn  | 54.7       | eS  | 32.5       | 305 | 2.7 |
| Monteynard      | eSn  | 58         |     |            | 170 | 1.5 |
| Toulx Ste Croix | ePn  | 59.0       |     |            | 355 | 3.2 |

X. 12 Janvier  
Mindanao (Iles Philippines)

6°3'N, 126°8'E h = 80km H = 08h38<sup>mn</sup>13<sup>s</sup> (CGS)  
M = 4.6 (CGS, College).

|             |      |            |   |           |       |      |
|-------------|------|------------|---|-----------|-------|------|
| Davao       | iP   | 08 38 35.2 |   |           | 145   | 1.3  |
| Baguio      | eP   | 40 58.0    |   |           | 1245  | 11.2 |
| Shiraki     | eP   | 43 52.1    |   |           | 3110  | 28.0 |
| War ramunga | eP   | 54.5       | e | 08 4900.5 | 3080  | 27.7 |
| Oishiyama   | eP   | 59.0       |   |           | 3130  | 28.2 |
| Kyos uni    | eP   | 44 25.5    |   |           | 3410  | 30.7 |
| Meektharra  | P    | 52         |   |           |       |      |
| Abuyama     | iP   | 57.9       |   |           |       |      |
| Shillong    | P    | 45 25.2    |   |           | 4245  | 38.2 |
| Mundaring   | iP   | 40.9       |   |           | 4445  | 40.0 |
| Adelaide    | eP   | 46 09.0    |   |           | 4790  | 43.1 |
| Quetta      | iP   | 48 16.7    |   |           | 6730  | 60.6 |
| Chiraz      | eP   | 49 35.0    |   |           | 8080  | 72.7 |
| Barrow      | eP   | 50 10.0    | e | 50 22.8   | 8790  | 79.1 |
| Mimiy       | e(P) | 13.0       |   |           | 850   | 7.3  |
| College     | eP   | 25.0       | i | 36.3      | 9090  | 81.8 |
| Mould Bay   | eP   | 58.0       |   |           | 9870  | 88.8 |
| South Pole  | eP   | 51 48.5    |   |           | 10770 | 96.9 |

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|              |                   |            |                |       |       |
|--------------|-------------------|------------|----------------|-------|-------|
| Uinta Basin  | PKP               | 08 56 50.6 |                | 12230 | 110.1 |
| Tonto Forest | PKP               | 54.3       |                | 12390 | 111.5 |
| Wichita M.   | PKP               | 57 09.6    | ePP 08 58 19.6 | 13380 | 120.4 |
| Penas        | ePKP <sub>2</sub> | 59 05.8    |                |       |       |

Inscrit à La Paz - Charters Towers.

XI.- 12 Janvier

Nord Ouest de la Russie. Explosion ?

67° 2' N ; 33° 2' E ; H = 11h.19<sup>mn</sup>46s. (Uppsala)

|             |     |            |                |     |     |
|-------------|-----|------------|----------------|-----|-----|
| Kiruna      | iPn | 11 21 02.2 | iSn 11 22 01.3 | 540 | 4.9 |
| Uméa        | iSg | 23 09.8    |                |     |     |
| Stalsstugan | iSg | 24 52.8    |                |     |     |

XII.- 12 Janvier

Maroc. Explosion de 15 Tonnes

32° 46' N ; 6° 46' W ; h = 0km ; H = 11h.42<sup>mn</sup>09s. (Rabat)

|          |     |            |                 |     |     |
|----------|-----|------------|-----------------|-----|-----|
| Averroes | iPg | 11 42 24.0 | eISg 11 42 34.5 | 85  | 0.8 |
| Ifrane   | iPb | 38.4       | iSb 48          | 175 | 1.6 |

XIII.- 12 Janvier

Witwatersrand.

26° 5' S ; 28° 3' E ; H = 14h.04<sup>mn</sup>48s. ; M. = 3.0 (Bilawayo)

|          |       |          |              |  |  |
|----------|-------|----------|--------------|--|--|
| Bilawayo | ePn   | 14 06 32 | eSg 14 08 09 |  |  |
| Maroi    | eSgSg | 09 51    |              |  |  |

XIV.- 12 Janvier

Région des Iles Sandwich du Sud.

56° 7' S ; 25° 5' W ; h = 33km ; H = 14h.06<sup>mn</sup>21s. (CGS)

M. = 4.7 (Port Moresby) ; 4.5 (CGS) ; 4.3 (Penas).

|              |     |                   |  |       |       |
|--------------|-----|-------------------|--|-------|-------|
| South Pole   | eP  | 14 12 41.2        |  | 3500  | 31.5  |
| Byrd         | eP  | 59.4              |  | 3730  | 33.6  |
| Peldehue     | eP  | 13 50.5           |  | 4380  | 39.4  |
| La Paz       | eP  | 15 28             |  | 5820  | 52.4  |
| Penas        | eP  | 35.2              |  | 5870  | 52.8  |
| Lanto        | P   | 17 11.9           |  | 7420  | 66.8  |
| Bangui       | iP  | 42.2 <sup>D</sup> |  | 8000  | 72.0  |
| Tonto Forest | PKP | 25 02.8           |  | 12945 | 116.5 |
| Uinta Basin  | PKP | 10.0              |  | 13400 | 120.6 |



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|                 |     |       |                   |  |       |       |
|-----------------|-----|-------|-------------------|--|-------|-------|
| Dugway          | PKP | 14 25 | 13.2              |  | 13555 | 122.0 |
| Priest          | PKP |       | 15.9              |  | 13620 | 122.6 |
| Jamestown       | PKP |       | 17.6 <sup>D</sup> |  | 13770 | 123.9 |
| Mt. Hamilton    | PKP |       | 18.4 <sup>D</sup> |  | 13780 | 124.0 |
| Berkeley        | PKP |       | 19.4 <sup>D</sup> |  | 13855 | 124.7 |
| Blue M.         | PKP |       | 23.4              |  | 14190 | 127.7 |
| Hungry Horse    | PKP |       | 25.9              |  | 14310 | 128.8 |
| Edmonton        | PKP |       | 31.0              |  | 14670 | 132.0 |
| Yellowknife     | PKP |       | 42 <sup>D</sup>   |  |       |       |
| Mould Bay       | PKP |       | 59.0              |  | 16310 | 146.8 |
| Black Rapids    | PKP | 26    | 12.6              |  | 16855 | 151.7 |
| Mt. Sheep Creek | PKP |       | 13.2              |  | 16870 | 151.8 |
| Pedro Dome      | PKP |       | 14.0              |  | 16980 | 152.8 |
| Palmer          | PKP |       | 14.3              |  | 16945 | 152.5 |
| Gilmore Creek   | PKP |       | 14.3              |  | 16980 | 152.8 |
| College         | PKP |       | 14.5              |  | 16990 | 152.9 |

XV.- 12 Janvier

Frontière Albanie-Yougoslavie

Vers 41° 2' N ; 20° 3/4' E ; H = 15<sup>h</sup>.05<sup>mn</sup>28<sup>s</sup>. (BCIS)

|                |       |       |      |      |       |      |
|----------------|-------|-------|------|------|-------|------|
| Sofia          | eP    | 15 06 | 07.4 | e(S) | 15 06 | 32.3 |
| Valsamata      | ePn   |       | 18.2 | eISg | 07 00 | 5    |
| Athènes        | ePn   |       | 36.0 |      |       |      |
| Paraskevi      | ePn   |       | 41.8 | eISn |       | 17.5 |
| Budapest       | ePn   | 07 00 |      |      |       |      |
| Bratislava     | eIPn  |       | 22.3 | ei   | 08 35 | 5    |
| Ljubljana      | Pn    | (00)  |      | iSn  |       | 21.4 |
| Srobarova      | eIPn  |       | 06   |      |       |      |
| Trieste        | (e)Pn |       | 06.7 | iSn  |       | 21.5 |
| Niedzica       | ePn   |       | 24.8 | e    |       | 09.3 |
| Kasperské Hory | ePn   |       | 40   |      |       |      |
| Pruhonice      | ePn   |       | 49   |      |       |      |
| Erlangen       | eP    | 08 08 |      |      |       |      |
| Moxa           | e     |       | 36   |      |       |      |
| Collm          | e     | 10 34 |      | e    | 11 55 |      |

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Données insuffisantes

H = 15<sup>h</sup>.22<sup>mn</sup>04<sup>s</sup>. (Rabaul)

|              |    |       |       |    |       |    |
|--------------|----|-------|-------|----|-------|----|
| Rabaul       | eP | 15 22 | 47    | eS | 15 23 | 20 |
| Keravat      | eP |       | 47.5  |    |       |    |
| Port Moresby | eP |       | (53)  |    |       |    |
| Warramunga   | eP |       | 27 08 |    |       |    |

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XVII.- 12 Janvier

Nordlands Fylke

66° 4 N ; 14° 8 E ; H = 17h.48<sup>mn</sup>29<sup>s</sup>. (Uppsala)

|             |     |    |    |      |  |  |
|-------------|-----|----|----|------|--|--|
| Kiruna      | iS  | 17 | 49 | 56.8 |  |  |
| Skalsstugan | iSg |    | 50 | 01.7 |  |  |
| Umeå        | eSn |    |    | 11   |  |  |
| Lillehammer | eP  |    | 51 | 22   |  |  |

XVIII.- 12 Janvier

Région du Lac Upemba (Katanga)

8° S ; 28° E ; H = 18h.57<sup>mn</sup>32<sup>s</sup>.; M. = 3.3 (Bilawayo)

|             |     |    |    |      |     |    |    |       |
|-------------|-----|----|----|------|-----|----|----|-------|
| Butare      | ePn | 18 | 58 | 38   | iSn | 18 | 59 | 29.0  |
| Broken Hill | ePn |    | 59 | 19   | eSg |    | 19 | 01 16 |
| Karoi       | eP  |    |    | 52   | eSn |    |    | 38    |
| Nairobi     | eP  | 19 | 02 | 52   |     |    |    |       |
| Bangui      | eS  |    | 03 | 21.7 | LR  |    | 04 | 50.9  |

XIX.- 12 Janvier

Nouvelles Hébrides (Ile Espiritu Santo)

H = 19h.40<sup>mn</sup>51<sup>s</sup>. (Nouméa)

|            |    |    |    |       |    |    |    |      |
|------------|----|----|----|-------|----|----|----|------|
| Lonorore   | iP | 19 | 41 | 16.3C | iS | 19 | 41 | 38.5 |
| Luganville | iP |    |    | 16.5D | iS |    |    | 31.5 |
| Port Vila  | eP |    |    | 28.5C | iS |    | 42 | 00   |

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Frontière Finlande - URSS

69° 2 N ; 28° 5 E ; H = 20h.43<sup>mn</sup>03<sup>s</sup>. (Uppsala)

|             |     |    |    |      |     |    |    |      |     |     |
|-------------|-----|----|----|------|-----|----|----|------|-----|-----|
| Kiruna      | iPn | 20 | 43 | 56.4 | iSn | 20 | 44 | 35.0 | 360 | 3.2 |
| Umeå        | iSg |    | 46 | 23.2 |     |    |    |      |     |     |
| Skalsstugan | iSg |    | 47 | 41.7 |     |    |    |      |     |     |

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Ile Salomon

Vers 10° S ; 161° 1/2 E ; H = 21h.04.3<sup>mn</sup> (BCIS)

|            |    |    |    |       |      |    |    |      |
|------------|----|----|----|-------|------|----|----|------|
| Honiara    | iP | 21 | 04 | 48.1C | i(S) | 21 | 05 | 06.9 |
| Luganville | iP |    | 06 | 13.9C | iS   |    | 07 | 38.5 |

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|                 |      |       |                   |    |       |      |
|-----------------|------|-------|-------------------|----|-------|------|
| Lonorore        | eP   | 21 06 | 28.7 <sup>D</sup> |    |       |      |
| Port Vila       | iP   |       | 45.4 <sup>C</sup> | i  | 21 07 | 34.5 |
| Koumac          | iP   |       | 55.0 <sup>C</sup> | iS | 08    | 50.5 |
| Charters Towers | eP   | 08    | 27                |    |       |      |
| Warramunga      | e(P) | 10    | 24.5              |    |       |      |

inscrit à Ouanaham

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Golfe de l'Alaska.

59°7 N ; 146°9 W ; h = 25<sup>km</sup> ; H = 21<sup>h.53<sup>mm</sup></sup> 17.7<sup>s.</sup> (CGS)

M. = 3.7 (CGS); 3.6 (Blue M.)

|                  |     |       |      |   |       |      |         |
|------------------|-----|-------|------|---|-------|------|---------|
| Middleton Island | ePg | 21 53 | 28.3 |   |       | 45   | 0.4     |
| Mt Sheep Creek   | iP  |       | 53.7 | e | 21 53 | 54.6 | 230 2.1 |
| Palmer           | eP  |       | 54.1 |   |       | 245  | 2.2     |
| Black Rapids     | iP  | 54    | 17.2 |   |       | 429  | 3.8     |
| Sparrevohn       | eP  |       | 28.0 |   |       | 500  | 4.5     |
| Gilmore Creek    | eP  |       | 36.0 |   |       | 590  | 5.3     |
| College          | eP  |       | 36.0 |   |       | 580  | 5.2     |
| Pedro Dome       | eP  |       | 37.5 |   |       | 600  | 5.4     |
| Blue M.          | eP  | 58    | 24.4 |   |       | 2580 | 23.2    |

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Californie Centrale

36°7 N ; 121°3 W ; h = 9<sup>km</sup> ; H = 22<sup>h.19<sup>mm</sup></sup> 10.7<sup>s.</sup> (CGS)  
 38°42' N ; 121°16' W ; ( Berkeley )

M. = 2.8 (Berkeley)

|              |    |       |                   |    |         |      |        |
|--------------|----|-------|-------------------|----|---------|------|--------|
| Stone Canyon | iP | 22 19 | 12.0              |    |         | 10   | 0.1    |
| San Luis Dam | iP |       | 19.7              | eS | 22 19   | 24.9 | 45 0.4 |
| Holy Cross   | iP |       | 20.8              | eS |         | 29.6 | 55 0.5 |
| Priest       | P  |       | 24.1              | S  |         | 36.0 | 80 0.7 |
| Mt. Hamilton | P  |       | 25.1 <sup>D</sup> | S  |         | 37.0 | 60 0.7 |
| Castle Rock  | eP |       | 27.8              |    |         | 100  | 0.9    |
| Jamestown    | eP |       | 37.6              |    |         | 155  | 1.4    |
| Mt. Diablo   | eP |       | 37.8              |    |         | 145  | 1.3    |
| Berkeley     | eP |       | 38.0              |    |         | 155  | 1.4    |
| Olema        | eP |       | 40.5              | eS | 20 07.0 | 200  | 1.8    |
| Oroville     | eP |       | 57.0              |    |         | 320  | 2.9    |

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Hindou\_Kouch.

36°3 N ; 71°4 E ; H = 00<sup>h</sup>.21<sup>m</sup>04<sup>s</sup>. (Quetta)

|           |    |            |    |            |  |
|-----------|----|------------|----|------------|--|
| Mangla    | eP | 00 21 09.7 |    |            |  |
| Warsak    | eP | 47.9       | eS | 00 22 22.2 |  |
| Lahore    | eP | 22 29      | eS | 23 34      |  |
| Quetta    | eP | 48.6       | eS | 57.5       |  |
| New Dehli | eP | 23 16      | eS | 25 00      |  |

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Halmahera.

2°7 N ; 128°3 E ; h = 210<sup>km</sup> ; H = 02<sup>h</sup>.14<sup>m</sup>23<sup>s</sup>. (CGS)

M. = 5.2 (CGS - Adélaïde - Palmer)

|                 |      |                      |    |          |       |       |
|-----------------|------|----------------------|----|----------|-------|-------|
| Davao           | eP   | 02 15 39             | 1S | 02 16 43 | 565   | 5.1   |
| Darwin          | eP   | 17 49                | eS | 20 26    | 1690  | 15.2  |
| Warramunga      | eP   | 19 11                | e  | 23 05    |       |       |
| Charters Towers | eP   | 20 05                |    |          | 3190  | 28.7  |
| Mundaring       | iP   | 21 08.5              |    |          | 4045  | 36.4  |
| Brisbane        | iP   | 20.6                 |    |          | 4235  | 38.1  |
| Adélaïde        | iP   | 28.3                 |    |          | 4310  | 38.8  |
| Toolangi        | eP   | 22 04                |    |          | 4800  | 43.2  |
| Quetta          | eP   | 25 58.2 <sup>C</sup> |    |          |       |       |
| Sparrevohn      | iP   | 26 15                |    |          | 8990  | 80.9  |
| Palmer          | eP   | 30                   |    |          | 9345  | 84.1  |
| Mts Sheep Creek | eP   | 35                   |    |          | 9445  | 85.0  |
| Black Rapids    | iP   | 39.8                 |    |          | 9520  | 85.7  |
| Sodankylä       | iP   | 27 07.2              |    |          |       |       |
| Oulu            | eP   | 09                   |    |          |       |       |
| South Pole      | eP   | 12                   |    |          | 10300 | 92.7  |
| Uinta Basin     | PKP  | 32 34.4              |    |          | 12455 | 112.1 |
| Tonto Forest    | PKP  | 37.6                 |    |          | 12565 | 113.1 |
| Albuquerque     | PKP  | 42                   |    |          | 12945 | 116.5 |
| Wichita M.      | PKP  | 51.6                 |    |          | 13600 | 122.4 |
| La Paz          | PKP  | 33 57                |    |          | 17635 | 158.7 |
| Penas           | ePKP | 57.5                 | e  | 57 55    |       |       |

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Sud de l'Alaska

60°7 N ; 147°5 W ; h = 17<sup>km</sup> ; H = 03<sup>h</sup>.43<sup>m</sup>08.2<sup>s</sup>. (CGS)  
 M. = 3.5 (CGS - Blue M.)

|                 |    |            |  |  |     |     |
|-----------------|----|------------|--|--|-----|-----|
| Mts Sheep Creek | iP | 03 43 28.6 |  |  | 120 | 1.1 |
|-----------------|----|------------|--|--|-----|-----|

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|                  |    |            |    |            |      |      |
|------------------|----|------------|----|------------|------|------|
| Palmer           | iP | 03 43 30.7 | eS | 03 43 45.5 | 135  | 1.2  |
| Middleton Island | eP | 33.5       |    |            | 155  | 1.4  |
| Black Rapids     | iP | 54.7       |    |            | 320  | 2.9  |
| Sparrevohn       | iP | 44 08.7    |    |            | 445  | 4.0  |
| Big Mountain     | eP | 12         |    |            | 455  | 4.1  |
| College          | iP | 12.5       |    |            | 465  | 4.2  |
| Gilmore Creek    | iP | 13.3       |    |            | 480  | 4.3  |
| Pedro Dome       | iP | 14.1       |    |            | 480  | 4.3  |
| Tanana           | eP | 24         |    |            | 555  | 5.0  |
| Blue M.          | eP | 48 21.2    |    |            | 2655 | 23.9 |

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Iles Santa-Cruz.

12° 3 S ; 165° 7 E ; h = 38<sup>km</sup> ; H = 04h.22<sup>mn</sup> 13.9<sup>s</sup>. (CGS)  
 12° 1 S ; 166° 4 E ; H = 05h.22<sup>mn</sup> 16<sup>s</sup>. (Nouméa)

M. = 5.0 (Uinta Basin); 4.5 (CGS); 4.1 (Tonto Forest)

|                 |                   |                         |                    |            |       |       |
|-----------------|-------------------|-------------------------|--------------------|------------|-------|-------|
| Luganville      | iP                | 04 23 07.6 <sup>C</sup> | iS                 | 04 23 47.5 | 390   | 3.5   |
| Lonorore        | eP                | 18.6                    |                    |            | 480   | 4.4   |
| Honiara         | eP                | 46.5                    | eS                 | 24 59      | 700   | 6.3   |
| Port Vila       | iP                | 49.3                    | iS                 | 25 02      | 665   | 6.0   |
| Koumac          | iP                | 24 13.5                 | iS                 | 46.5       | 920   | 8.3   |
| Nouméa          | iP                | 37.2                    | iB                 | 26 26      | 1110  | 10.0  |
| Esa'Ala         | eP                | 45                      |                    |            |       |       |
| Brisbane        | iP                | 26 40.1                 |                    |            | 2145  | 19.3  |
| Warramunga      | eP                | 42                      | e                  | 23 35.5    |       |       |
| Charters Towers | iP                | 49.4                    |                    |            | 2245  | 20.2  |
| Toolangi        | eP                | 28 30                   |                    |            | 3445  | 31.0  |
| Mundaring       | eP                | 31 10                   |                    |            |       |       |
| South Pole      | eP                | 34 06.4                 |                    |            | 3645  | 77.8  |
| Tonto Forest    | eP                | 35 17.1                 |                    |            | 10135 | 91.2  |
| Blue M.         | e(P)              | 26                      |                    |            | 9955  | 89.6  |
| Uinta Basin     | eP                | 29.6                    |                    |            | 10435 | 93.9  |
| Wichita M.      | eP                | 36 21.7                 |                    |            | 11290 | 101.6 |
| Bulawayo        | PKP               | 41 13                   |                    |            | 14100 | 126.9 |
| Karoi           | PKP               | 15                      |                    |            | 14200 | 127.8 |
| Broken Hill     | PKP               | 20                      |                    |            | 14445 | 130.0 |
| Bangui          | iPKP <sub>1</sub> | 40.7                    | ipPKP <sub>1</sub> | 41 50.7    |       |       |

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Prs de la cote, au Nord du Chili.

21° 4 S ; 70° 6 W ; h = 66<sup>km</sup> ; H = 04h.36<sup>mn</sup> 14.1<sup>s</sup>. (CGS)

M. = 4.7 (Blue M.); 4.6 (CGS - Uinta Basin - Elreka - Cumberland Pl.);  
 4.5 (Albuquerque); 4.4 (Penas - Wichita M.); 4.2 (Tonto Forest)

|        |    |            |  |  |     |     |
|--------|----|------------|--|--|-----|-----|
| Calama | iP | 04 36 43.1 |  |  | 200 | 1.8 |
|--------|----|------------|--|--|-----|-----|

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|                |      |                      |      |          |      |      |
|----------------|------|----------------------|------|----------|------|------|
| Antofagasta    | IP   | 04 36 19.4           |      |          | 255  | 2.3  |
| La Paz         | IP   | 37 36 <sup>C</sup>   | S    | 04 38 34 | 600  | 5.4  |
| Penas          | IP   | 36.2 <sup>C</sup>    | eS   | 40       | 610  | 5.5  |
| Cochabamba     | P    | 38.9                 |      |          |      |      |
| Cumberland Pl. | eP   | 46 03.2              |      |          | 6500 | 58.5 |
| Wichita M.     | eP   | 23.9                 | ePP  | 46 39.5  | 6880 | 61.9 |
| Albuquerque    | eP   | 53 <sup>D</sup>      |      |          | 7290 | 65.6 |
| Tonto Forest   | eP   | 47 06.2              | ePcP | 47 33.0  | 7510 | 67.6 |
| South Pole     | eP   | 13.8                 |      |          | 7635 | 68.7 |
| Uinta Basin    | eP   | 27.2                 |      |          | 7935 | 71.4 |
| Lanto          | P    | 29.6                 |      |          | 7765 | 69.9 |
| Isabella       | P    | 38                   | e    | 47 50    | 8080 | 72.7 |
| Eureka         | IP   | 45.1                 |      |          | 8220 | 74.0 |
| Jamestown      | eP   | 53.2 <sup>C</sup>    |      |          | 8360 | 75.4 |
| Mt. Hamilton   | eP   | 54.5 <sup>D</sup>    |      |          | 8410 | 75.5 |
| Priest         | e(P) | 48 00.2 <sup>D</sup> |      |          | 8255 | 74.3 |
| Butte          | eP   | 02.9                 |      |          | 8580 | 77.2 |
| Proville       | IP   | 02.9                 |      |          | 8565 | 77.1 |
| Blue M.        | eP   | 09.8                 |      |          | 8720 | 78.5 |
| Hungry Horse   | eP   | 16                   |      |          | 8845 | 79.6 |
| Fort Churchill | eP   | 23.4                 |      |          |      |      |
| Edmonton       | IP   | 32                   |      |          | 9235 | 83.1 |

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Province de Jujuy (Argentine)

23°0 S ; 66°8 W ; h = 212<sup>km</sup> ; H = 04<sup>h</sup>.40<sup>mm</sup>52<sup>s</sup>. (CGS)

M. = 4.3(La Paz); 4.0(CGS); 3.8(Tonto Forest - Blue M.).

|              |    |                   |   |            |      |      |
|--------------|----|-------------------|---|------------|------|------|
| Antofagasta  | IP | 04 41 46.7        |   |            | 380  | 3.4  |
| Cochabamba   | P  | 42 15.4           |   |            |      |      |
| La Paz       | P  | 27.8              |   |            | 735  | 6.6  |
| Penas        | P  | 31.5 <sup>D</sup> | S | 04 43 43.6 | 765  | 6.9  |
| South Pole   | eP | 51 24.4           |   |            | 7455 | 67.1 |
| Tonto Forest | eP | 48.5              |   |            | 7880 | 70.9 |
| Blue M.      | eP | 52 48.3           |   |            | 9080 | 81.7 |

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Région de Taiwan.

24° 1 N ; 122° 2 E ; h = 8 km ; H = 07h.03<sup>mm</sup>39.2S. (CGS)  
 24° 5 N ; 122° 4 E ; H = 07h.03<sup>mm</sup>44S. (URSS)  
 24° 8 N ; 122° 2 E ; H = 07h.03<sup>mm</sup>40S. (Shillong)  
 23° 8 N ; 122° 4 E ; h = 60km ( Taiwan)

Ressenti dans l'île de Formose, V à Taipei, Hualien, Ilan, etc...

M. = 7.0 (Strasbourg - De Bilt); 6.9 (Baguio); 6.8 (Moxa - Uppsala - Kiruna - Roma); 6.5 (Kajaani - Lvov); 6.4 (URSS - Edmonton - Pruhonice); 6.2 (Longnere); 6.0 (- 6 1/4) Golden; 6.0 (Coppermine); 5.9 (Mould Bay - Nurmijaerwi); 5.8 (Kevo - Bozeman SSS - Blue M.); 5.7 (CGS - College - København - Bensberg - Eureka); 5.6 (Lasa Center - Addis Ababa - Stuttgart); 5.4 (Newport); 5.1 (Tonto Forest - Station Nord); 5.0 (Uinta Basin); 4.3 (Mt. Tsukuba)

|                   |      |                    |      |          |      |      |
|-------------------|------|--------------------|------|----------|------|------|
| Hualien           | 1P   | 07 03 54.6         | S    | 07 03 55 | 65   | 0.6  |
| Hsinking          | 1P   | 04 02              | S    | 04 20.2  | 145  | 1.3  |
| Tai tung          | 1(P) | 02                 | (S)  | 19       | 190  | 1.7  |
| Ilan              | 1(P) | 03.9               | (S)  | 17.5     | 90   | 0.8  |
| Anpu              | 1P   | 07C                | S    | 22       | 145  | 1.3  |
| Taipei            | 1(P) | 07                 | (S)  | 24.4     | 120  | 1.1  |
| Yushan            | P    | 07                 | S    | 22.4     | 145  | 1.3  |
| Tai chung         | 1P   | 10.2               | S    | 23.3     | 155  | 1.4  |
| Alishan           | P    | 12.4               | S    | 22.4     | 155  | 1.4  |
| Tawu              | eP   | 19.1               |      |          | 235  | 2.1  |
| Hengchun          | P    | 25.6               |      |          | 275  | 2.5  |
| Tainan            | (P)  | 28                 |      |          | 235  | 2.1  |
| Honh Kong         | 1P   | 05 34 <sup>C</sup> | 1S   | 06 56    | 845  | 7.6  |
| Baguio            | 1P   | 35.2               | 1(S) | 07 14    | 865  | 7.8  |
| Séoul             | eP   | 07 02              |      |          | 1555 | 14.0 |
| Shiraki           | eP   | 05.1               |      |          | 1535 | 13.8 |
| Oishiyama         | eP   | 25.8               |      |          | 1690 | 15.2 |
| Abuyama           | eP   | 31.9               |      |          | 1750 | 15.8 |
| Davao             | 1P   | 42                 | 1S   | 10 54    | 1910 | 17.2 |
| Matsushiro        | P    | 56                 | S    | 11 22    | 2060 | 18.5 |
| Dodaira           | eP   | 08 05.8            |      |          | 2090 | 18.8 |
| Mt. Tsukuba       | eP   | 10.3               | eS   | 49.9     | 2180 | 19.6 |
| Vladivostok       | eP   | 22 <sup>C</sup>    | eS   | 12 18    | 2235 | 20.6 |
| Guam              | eP   | 57.5               | eS   | 13 08    | 2655 | 23.9 |
| Oulan-Bator       | 1P   | 09 20              |      | 14 20    | 2965 | 26.7 |
| Shillong          | 1P   | 29                 | 1S   | 09       | 3065 | 27.6 |
| Chittagong        | eP   | 34                 | eS   | 16       | 3105 | 28.0 |
| Youjno_Sakhalinsk | 1P   | 35 <sup>D</sup>    |      |          | 3125 | 28.1 |
| Esen-Boulak       | eP   | 55                 |      |          | 3355 | 30.5 |
| Irkou tsk         | P    | 10 00 <sup>C</sup> |      |          | 3475 | 31.3 |
| Chatra            | 1P   | 08                 | S    | 15 19    | 3520 | 31.7 |
| Calcutta          | eP   | 08                 | 1    | 36       | 3455 | 31.1 |
| Bokaro            | 1P   | 19                 | 1    | 16 37    | 3690 | 33.3 |

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|                 |      |       |                   |      |          |      |      |
|-----------------|------|-------|-------------------|------|----------|------|------|
| Bodajbo         | eP   | 07 10 | 25 <sup>C</sup>   |      |          | 5800 | 34.2 |
| Darwin          | eP   |       | 50                | e    | 07 10 54 | 4135 | 37.2 |
| Port Blair      | ePP  |       | 55                |      |          | 3400 | 30.6 |
| Yakou tsk       | iP   |       | 59                |      |          | 4250 | 38.2 |
| Dehra Dun       | iP   | 11    | 14                | i(S) | 16 59    | 4400 | 39.6 |
| New Dehli       | iP   |       | 19                | e(S) | 17 06    | 4490 | 40.4 |
| Magadan         | eP   |       | 20                |      |          | 4525 | 40.7 |
| Rabaul          | eP   |       | 23.5              |      |          | 4505 | 40.5 |
| Bhakra          | iP   |       | 25                |      |          | 4550 | 40.9 |
| Veravat         | eP   |       | 25                |      |          | 4500 | 40.5 |
| Madras          | eP   |       | 27                |      |          | 4580 | 41.2 |
| Port Moresby    | iP   |       | 27                |      |          | 4590 | 41.3 |
| Sempalatinsk    | iP   |       | 29.9              |      |          | 4630 | 41.7 |
| Talgar          | iP   |       | 30                |      |          | 4595 | 41.3 |
| Lahore          | P    |       | 30                |      |          | 4745 | 42.7 |
| Frounze         | iP   |       | 44 <sup>C</sup>   |      |          | 4805 | 43.2 |
| Kodaikanal      | iP   |       | 57                |      |          | 4965 | 44.7 |
| Warsak          | P    |       | 58                |      |          | 5010 | 45.1 |
| Warramunga      | iP   |       | 58.5 <sup>C</sup> | e    | 13 53    | 5040 | 45.3 |
| Khorog          | iP   |       | 59                |      |          | 5000 | 45.0 |
| Poona           | eP   |       | 59                | eS   | 18 38    | 5020 | 45.2 |
| Bombay          | eP   | 12    | 05                | eS   | 49       | 5120 | 46.1 |
| Garm            | iP   |       | 05.5              | iS   | 53.5     | 5115 | 46.0 |
| Goa             | eP   |       | 06                | eS   | 53       | 5125 | 46.1 |
| Koulyab         | iP   |       | 09.2 <sup>C</sup> | eS   | 55.2     | 5160 | 46.5 |
| Tachkent        | iP   |       | 14 <sup>D</sup>   | iS   | 19 06    | 5220 | 47.0 |
| Tiksi           | iP   |       | 15                | iS   | 06       | 5300 | 47.7 |
| Douchambé       | iP   |       | 15 <sup>C</sup>   | iS   | 02       | 5250 | 47.2 |
| Trivandrum      | e(P) |       | 15                | e    | 33       | 5100 | 45.9 |
| Samarkand       | iP   |       | 26 <sup>C</sup>   |      |          | 5405 | 48.7 |
| Qietta          | iP   |       | 30.2 <sup>C</sup> | eS   | 36.1     | 5465 | 49.2 |
| Honlara         | eP   |       | 32                | eS   | 46       | 5520 | 49.7 |
| Charters Towers | iP   |       | 34.3              | i(S) | 20       | 5535 | 49.8 |
| Meekatharra     | iP   |       | 37.7 <sup>C</sup> |      |          |      |      |
| Adak            | iP   | 13    | 03.7              |      |          | 5965 | 53.7 |
| Kalgoorlie      | iP   |       | 07.9 <sup>C</sup> |      |          | 6065 | 54.6 |
| Sverdlovsk      | iP   |       | 10 <sup>C</sup>   | S    | 20 49    | 6075 | 54.7 |
| Mashad          | iP   |       | 13                | e    | 25 06    | 6080 | 54.7 |
| Mundaring       | iP   |       | 22.2              |      |          | 6235 | 56.1 |
| Kizyl Arvat     | iP   |       | 29 <sup>D</sup>   | iS   | 21 24    | 6330 | 57.0 |
| Luganville      | iP   |       | 41.3 <sup>C</sup> |      |          | 6550 | 59.0 |
| Brisbane        | eP   |       | 42                | iS   | 49       | 6565 | 59.1 |
| Adélaïde        | eP   |       | 54                |      |          | 6755 | 60.8 |
| Chiraz          | iP   |       | 58.8 <sup>C</sup> |      |          | 6810 | 61.3 |
| Bakou           | P    | 14    | 02                |      |          | 6855 | 61.7 |
| Téhéran         | eP   |       | 03                |      |          | 6810 | 61.3 |
| Canberra        | eP   |       | 18                | eS   | 22 54    | 7145 | 64.3 |
| Kirovabad       | P    |       | 18 <sup>C</sup>   | S    | 57       | 7145 | 64.3 |
| Barrow          | eP   |       | 18.8              |      |          | 7165 | 64.5 |
| Goris           | iP   |       | 20 <sup>C</sup>   | eS   | 23 01    | 7170 | 64.5 |
| Kermanshah      | eP   |       | 21                |      |          | 7225 | 65.0 |
| Nouméa          | i(P) |       | 21.2 <sup>C</sup> |      |          | 7005 | 63.1 |
| Tabriz          | iP   |       | 22 <sup>C</sup>   | i    | 18 29    | 7210 | 64.9 |



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|                 |      |                   |     |          |      |      |
|-----------------|------|-------------------|-----|----------|------|------|
| Toolangi        | eP   | 07 14 23          | eS  | 07 23 08 | 7235 | 65.1 |
| Sparrevohn      | e P  | 24                |     |          | 7285 | 65.4 |
| Tbilisi         | 1P   | 24                | eS  | 09       | 7250 | 65.3 |
| Big Mountain    | eP   | 26                |     |          | 7310 | 65.8 |
| Poti            | 1P   | 28 <sup>C</sup>   |     |          |      |      |
| Bakouriani      | 1P   | 30.5              | eS  | 10       | 7355 | 66.2 |
| Tanana          | eP   | 32                |     |          | 7410 | 66.7 |
| Moskva          | P    | 37 <sup>C</sup>   |     |          | 7495 | 67.4 |
| Apatity         | 1P   | 38 <sup>D</sup>   | eS  | 30       | 7505 | 67.6 |
| College         | e P  | 42                |     |          | 7600 | 68.4 |
| Palmer          | eP   | 42.2              |     |          | 7610 | 68.5 |
| Pedro Dome      | eP   | 43                |     |          | 7610 | 68.5 |
| Gilmore Creek   | eP   | 43.1              |     |          | 7620 | 68.6 |
| Mts Sheep Creek | eP   | 47.5              |     |          | 7700 | 69.5 |
| Black Rapids    | eP   | 49                |     |          | 7735 | 69.6 |
| Kevo            | 1P   | 49.9              | ePP | 17 24    | 7710 | 69.4 |
| Sodankylä       | 1P   | 53                |     |          | 7790 | 70.1 |
| Kajaani         | 1P   | 54.5              | 1PP | 28.6     | 7835 | 70.5 |
| Oulu            | 1P   | 58.1              |     |          | 7890 | 71.0 |
| Kiruna          | 1P   | 15 05.4           | 1S  | 24 25    | 8035 | 72.3 |
| Simferopol      | eP   | 06                |     |          | 8010 | 72.1 |
| Station Nord    | 1P   | 06.1 <sup>C</sup> |     |          | 8055 | 72.5 |
| Mould Bay       | eP   | 09.4 <sup>C</sup> |     |          | 8120 | 73.1 |
| Nurmijaervi     | 1P   | 10                | ePP | 17 50    | 8110 | 73.0 |
| Kipapa          | eP   | 11.5              |     |          | 8065 | 72.8 |
| Alert           | eP   | 12 <sup>C</sup>   |     |          | 8175 | 73.6 |
| Uméa            | 1P   | 14.6              | 1S  | 24 41    | 8195 | 73.7 |
| Bacau           | (P)  | 20                |     |          | 8485 | 76.4 |
| Kichinev        | eP   | 23                |     |          | 8325 | 74.9 |
| Jérusalem       | 1P   | 25.4              | e   | 26 06    | 8370 | 75.3 |
| Uppsala         | 1P   | 29.8              | 1PP | 18 21.4  | 8500 | 76.5 |
| Sitka           | eP   | 33.5              |     |          | 8710 | 78.6 |
| Skalstugan      | eP   | 32.9              |     |          | 8565 | 77.1 |
| Cine            | 1(P) | 33                |     |          | 8755 | 78.8 |
| Vrincioala      | P    | 33                |     |          | 8525 | 76.7 |
| Lyov            | 1P   | 34                | eS  | 25 16    | 8555 | 77.0 |
| Afiamału        | e(P) | 34                | eS  | 00       | 8300 | 74.7 |
| Istanbul UTI    | eP   | 34                |     |          | 8545 | 76.9 |
| Focsani         | P    | 35                |     |          | 8495 | 76.5 |
| Uddeholm        | 1P   | 39                |     |          | 8685 | 78.2 |
| Resolute        | eP   | 41 <sup>C</sup>   |     |          | 8735 | 78.6 |
| Campulung       | eP   | 42                |     |          | 8635 | 77.7 |
| Oujgorod        | eP   | 42                | eS  | 38       | 8720 | 78.5 |
| Karlskrona      | 1P   | 43.6              |     |          | 8780 | 79.0 |
| Coppermine      | 1P   | 44.3 <sup>C</sup> |     |          | 8790 | 79.1 |
| Lillehammer     | 1P   | 44.8              |     |          | 8765 | 78.9 |
| Helwan          | eP   | 46                |     |          | 8790 | 79.1 |
| Krakow          | e1P  | 47                | eS  | 45       | 8815 | 79.3 |
| Niedzica        | eP   | 47 <sup>C</sup>   | ePP | 18 48    | 8815 | 79.4 |
| Rhodes          | e1P  | 48.3 <sup>C</sup> |     |          | 8790 | 79.1 |
| Kongsberg       | 1P   | 49.4              |     |          | 8900 | 80.1 |
| Göteborg        | 1P   | 49.5              |     |          | 8895 | 80.0 |

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|                  |      |                   |      |                    |  |       |      |
|------------------|------|-------------------|------|--------------------|--|-------|------|
| Chorzow          | eP   | 07 15 50          |      |                    |  | 8865  | 79.8 |
| Karapiro         | eP   | 52                |      |                    |  | 8830  | 79.5 |
| Raciborz         | eP   | 53                |      |                    |  | 8925  | 80.3 |
| Köbenhavn        | iP   | 54.2 <sup>C</sup> | S    | 07 26 02           |  | 8980  | 80.8 |
| Srobarova        | iP   | 55                |      |                    |  | 9030  | 81.3 |
| Addis_Ababa      | iP   | 56.3 <sup>D</sup> |      |                    |  | 8935  | 80.4 |
| Bratislava       | eiP  | 00.3              |      |                    |  | 9090  | 81.8 |
| Monowai          | eP   | 16 01             |      |                    |  | 8985  | 80.9 |
| Wien             | iP   | 03 <sup>C</sup>   |      |                    |  | 9135  | 82.2 |
| Vamos            | eiP  | 03 <sup>C</sup>   |      |                    |  | 9170  | 82.5 |
| Wien_Kobenzl     | eP   | 03                | ePP  | 19 11              |  | 9145  | 82.3 |
| Kap Tobin        | iP   | 03.9              |      |                    |  | 9155  | 82.4 |
| Praha            | eP   | 04                | e    | 17 24              |  | 9165  | 82.5 |
| Wellington       | eP   | 04                | S    | 26 08              |  | 9035  | 81.3 |
| Pruhonice        | P    | 04 <sup>C</sup>   | S    | 18                 |  | 9165  | 82.5 |
| Collm            | iP   | 04.1              | eS   | 24                 |  | 9190  | 82.7 |
| Kasperské Hory   | P    | 08.5 <sup>C</sup> |      |                    |  | 9285  | 83.4 |
| Fort St.James    | eP   | 08.7              |      |                    |  | 9260  | 83.3 |
| Tananarive       | eP   | 09 <sup>D</sup>   | i    | 10 14 <sup>D</sup> |  | 9375  | 84.4 |
| Moxa             | eP   | 09.5              | eS   | 26 28              |  | 9310  | 83.8 |
| Valsamata        | eiP  | 11.6 <sup>C</sup> |      |                    |  | 9330  | 84.0 |
| Ljubljana        | eP   | 12                |      |                    |  | 9375  | 84.4 |
| Erlangen         | eP   | 14.3 <sup>C</sup> | ePP  | 19 30.5            |  | 9385  | 84.5 |
| Trieste          | iP   | 16 <sup>C</sup>   | iPP  | 35                 |  | 9445  | 85.0 |
| Fürstenfeldbruck | iP   | 19                |      |                    |  | 9480  | 85.3 |
| Stuttgart        | eP   | 21.1              |      |                    |  | 9565  | 86.1 |
| Bensberg         | iP   | 21.2 <sup>C</sup> | ePP  | 37.5               |  | 9555  | 86.0 |
| Alberni          | eP   | 22                |      |                    |  | 9535  | 85.8 |
| Wittweeen        | eP   | 22                |      |                    |  | 9485  | 85.2 |
| Bühlerhöhe       | eP   | 24                |      |                    |  | 9630  | 86.7 |
| Karlsruhe        | eP   | 24.5              |      |                    |  | 9600  | 86.4 |
| Baker Lake       | iP   | 24.7 <sup>C</sup> |      |                    |  | 9665  | 87.0 |
| De Bilt          | eP   | 26                | eS   | 27 00              |  | 9595  | 86.4 |
| Strasbourg       | eiP  | 26 <sup>C</sup>   | eS   | 26 58              |  | 9665  | 87.0 |
| Welschbruch      | eiP  | 27.8              | i    | 16 40.4            |  | 9700  | 87.3 |
| Basel            | P    | 28                |      |                    |  | 9740  | 87.7 |
| Champ du Feu     | iP   | 28.2              |      |                    |  | 9705  | 87.4 |
| Roselend         | (e)P | 30                | ei   | 37.9               |  | 9915  | 89.3 |
| Mica Creek       | eP   | 30                |      |                    |  | 9720  | 87.5 |
| Roma             | iP   | 30                | eS   | 27 04              |  | 9745  | 87.7 |
| Haudompré        | iP   | 31.2              |      |                    |  | 9790  | 88.1 |
| Pendicton        | eP   | 33 <sup>C</sup>   |      |                    |  | 9845  | 88.6 |
| Durham           | iP   | 33                | iS   | 18                 |  | 9770  | 87.9 |
| Longmire         | iP   | 36.6 <sup>D</sup> |      |                    |  | 9880  | 88.9 |
| Lanslevillard    | eiP  | 36.8              | eiPP | 20 07              |  | 9925  | 89.3 |
| Edmonton         | eiP  | 37                |      |                    |  | 9910  | 89.2 |
| Vouglans         | eiP  | 37.5              | ei   | 16 41.3            |  | 9935  | 89.4 |
| Corvallis        | eP   | 38.2              |      |                    |  | 9910  | 89.2 |
| Sommeé Lormes    | iP   | 39.8              |      |                    |  | 9990  | 89.9 |
| Les Buteaux      | iP   | 40.1              |      |                    |  | 10000 | 90.0 |

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|   |                   |       |                   |                   |          |       |       |
|---|-------------------|-------|-------------------|-------------------|----------|-------|-------|
| St. Saulge  | 1P                | 07 16 | 41.1              |                   |          | 10020 | 90.2  |
| Garchy  | 1P                |       | 42.2 <sup>D</sup> |                   |          | 10035 | 90.3  |
| Nordman   | 1P                |       | 43.1              | e                 | 07 16 53 | 10045 | 90.4  |
| Newport   | 1P                |       | 43.6              | e                 | 55       | 10055 | 90.5  |
| La Mourre   | 1P                |       | 43.6              |                   |          | 10070 | 90.6  |
| Lorgues   | 1P                |       | 45                |                   |          | 10075 | 90.7  |
| St. Paul en Foret   | 1P                |       | 45.1              |                   |          | 10045 | 90.4  |
| Spokane   | 1P                |       | 45.9 <sup>D</sup> |                   |          | 10080 | 90.7  |
| Toulx Ste Croix   | 1P                |       | 47.2              |                   |          | 10155 | 91.4  |
| Hungry Horse  | eP                |       | 51.3              |                   |          | 10235 | 92.1  |
| Blue M.   | eP                |       | 52.2              |                   |          | 10280 | 92.5  |
| Mineral   | eP                |       | 54.1              |                   |          | 10295 | 92.7  |
| Berkeley  | eP                |       | 55.1 <sup>C</sup> |                   |          | 10405 | 93.6  |
| Oroville  | 1P                |       | 56.2              |                   |          | 10355 | 93.2  |
| Butte   | eP                | 17    | 01.2              | e(SP)             | 17 28    | 10490 | 94.4  |
| Mt. Hamilton  | eP                |       | 02.2 <sup>D</sup> | e                 | 12.7     | 10480 | 94.3  |
| Jamestown   | eP                |       | 04.1 <sup>D</sup> | e                 | 15.2     | 10535 | 94.8  |
| San Luis Dam  | 1P                |       | 04.5              |                   |          | 10535 | 94.8  |
| Bozeman SSS   | eP                |       | 05                | e(S)              | 28 00    | 10585 | 95.1  |
| Priest  | eP                |       | 08.1 <sup>D</sup> |                   |          | 10635 | 95.7  |
| Lasa Center   | 1P                |       | 12.8              | 1sP               | 17 23.1  | 10790 | 97.1  |
| Eureka  | 1P                |       | 13                |                   |          | 10735 | 96.6  |
| Pasadena  | eP                |       | 20                | e(SKS)            | 28 21    | 10945 | 98.5  |
| Toledo  | 1P                |       | 21                | ePP               | 21 18    | 11000 | 99.0  |
| Uinta Basin   | eP                |       | 26.5              | eSKS <sub>1</sub> | 28 09    | 11090 | 99.2  |
| Bangui  | eP                |       | 27.7              | 1PP               | 21 32.7  | 11180 | 100.6 |
| Golden  | eP                |       | 31                | eS                | 29 20    | 11390 | 102.5 |
| Tonto Forest  | eP                |       | 41.2              | eSKS <sub>1</sub> | 28 27    | 11435 | 102.9 |
| Tamanrasset   | eP                |       | 42                |                   |          | 11425 | 102.8 |
| Albuquerque   | e(P)              |       | 51                |                   |          | 11700 | 105.3 |
| l Aquila  | e1PP              |       | 52                | 1S                | 27 00    | 9655  | 86.9  |
| Ifrane  | PP                | 22    | 02.5              |                   |          | 11540 | 103.9 |
| Averroes  | PP                |       | 12                |                   |          | 11715 | 105.4 |
| Wlchita M.  | ePKP              |       | 12.3              | eSKS <sub>1</sub> | 28 57    | 12200 | 109.8 |
| South Pole  | PKP               |       | 14.5              |                   |          | 12665 | 114.0 |
| Byrd  | PKP               |       | 24.5              | e                 | 23 55.6  | 13155 | 118.4 |
| Novo_Lazarevskaya   | ePKP <sub>1</sub> |       | 30                |                   |          | 13250 | 119.2 |
| Presa Infiernillo   | ePKP              |       | 32                |                   |          | 13315 | 119.8 |
| Lamto   | PKP               |       | 33.7              |                   |          | 13380 | 120.4 |
| Brébeuf   | PP                |       | 40                |                   |          | 12140 | 109.2 |
| Vista Hermosa   | 1PKP              |       | 43.5              |                   |          | 13785 | 124.1 |
| Caracas   | PKP               | 23    | 16                | e(SKS)            | 30 42    | 16055 | 144.5 |
| Trinidad  | PKP               |       | 18                |                   |          | 16145 | 145.3 |
| Bogota  | PKP               |       | 25                | ePP               | 26 53    | 16365 | 147.3 |
| Quito   | PKP               |       | 28                |                   |          | 16545 | 148.9 |
| Penas   | PKP               |       | 49.0              | PP                | 28 42    | 18590 | 167.3 |
| Cochabamba  | PKP               |       | 49.9              |                   |          | 18660 | 169.8 |
| La Paz  | PKP               |       | 50.0              | PP                | 43       | 18640 | 167.8 |
| Antofagasta   | ePKP              |       | 51                | e                 | 49 00    | 18715 | 168.5 |
| Nat.Univ.Mexico   | e(PP)             |       | 52                | e                 | 40 30    | 13435 | 120.9 |
| m'Bour  | ePP               | 24    | 29                | eSS               | 41 32    | 13860 | 124.7 |
| Inscrit à   |                   |       |                   |                   |          |       |       |
| Rabat - Ponta Delgada - Roumac.                                   |                   |       |                   |                   |          |       |       |
| Port Vila - Paria - Luxembourg - Bucuresti - Padova - Hermannus - |                   |       |                   |                   |          |       |       |

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Nouvelles Hébrides (Ile Espiritu Santo)

H = 07h.46<sup>mn</sup>33s. (Nouméa)

|            |     |       |                   |    |       |      |
|------------|-----|-------|-------------------|----|-------|------|
| Luganville | 1P  | 07 46 | 51.8 <sup>C</sup> | 1S | 07 47 | 05.5 |
| Lonorore   | 1P  |       | 59.2 <sup>D</sup> | 1S |       | 17.5 |
| Port Vila  | e1P | 47    | 25.6              |    |       |      |

IX.- 13 Janvier

Région des Iles d'Entrecasteaux

10° 4 S ; 151° 9 E ; h = 23<sup>km</sup> ; H = 08h.26<sup>mn</sup>35.6s. (CGS)

|                 |        |       |                   |   |       |     |       |      |
|-----------------|--------|-------|-------------------|---|-------|-----|-------|------|
| Port Moresby    | 1P     | 08 27 | 48.2              |   |       | 520 | 4.7   |      |
| Honiara         | eP     | 28    | 33.5              |   |       | 890 | 8.0   |      |
| Charters Towers | 1P     | 29    | 13.9              | i | 08 31 | 16  | 1220  | 11.0 |
| Brisbane        | 1P     | 30    | 33                | i | 35    | 23  | 1880  | 16.9 |
| Kalgoorlie      | 1P     |       | 59.9 <sup>D</sup> |   |       |     |       |      |
| Warramunga      | eP     | 31    | 03.5              | e | 34    | 58  |       |      |
| Darwin          | eP     |       | 17                |   |       |     | 2300  | 20.7 |
| Canberra        | eP     | 32    | 00                |   |       |     | 2765  | 24.9 |
| Adélaïde        | eP     |       | 20                |   |       |     | 3020  | 27.2 |
| Toolangi        | eP     |       | 21                |   |       |     | 3065  | 27.6 |
| Karapiro        | eP     | 33    | 26                |   |       |     |       |      |
| Dodaira         | e(P)   | 35    | 20.1              |   |       |     | 5300  | 47.7 |
| Matsushiro      | P      |       | 26                |   |       |     |       |      |
| South Pole      | eP     | 38    | 42.6              |   |       |     | 8845  | 79.6 |
| Eyrd            | P      |       | 43.3              |   |       |     | 8845  | 79.6 |
| Palmer          | eP     | 39    | 10.6              |   |       |     | 9465  | 85.2 |
| Gilmore Creek   | eP     |       | 21.6              |   |       |     | 9735  | 87.6 |
| Eureka          | eP     | 40    | 13.9              |   |       |     | 10910 | 98.2 |
| Tamanrasset     | e(PKP) | 46    | 05                | e | 46    | 33  |       |      |

X.- 13 Janvier

Mer Méditerranée, au Sud-Ouest de la Grèce

36° 4 N ; 21° 4 E ; H = 09h.16<sup>mn</sup>07s. (Athènes)

M. = 3.8 (Athènes)

|           |      |       |                 |      |       |      |     |     |
|-----------|------|-------|-----------------|------|-------|------|-----|-----|
| Valsamata | ePn  | 09 16 | 42.1            | e1Sn | 09 17 | 08.3 | 220 | 2.0 |
| Athènes   | ePn  |       | 47.8            | e1Sg |       | 27   | 265 | 2.4 |
| Vamos     | e1Pn |       | 51 <sup>D</sup> |      |       |      | 285 | 2.6 |

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Maroc. Explosion de 15 Tonnes.

$32^{\circ}46' N$  ;  $6^{\circ}46' W$  ;  $H = 11^h.44^{mn}13+1^s$ . (Rabat)

|          |     |          |             |     |     |
|----------|-----|----------|-------------|-----|-----|
| Averroes | 1Pg | 11 44 28 |             | 85  | 0.8 |
| Ifrane   | P   | 41       | Sb 11 45 02 | 175 | 1.6 |

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Golfe de Finlande. (Explosion ?)

$H = 11^h.49^{mn}29^s$ . (Uppsala)

|            |     |            |  |  |  |
|------------|-----|------------|--|--|--|
| Uppsala    | 1Sn | 11 51 06.7 |  |  |  |
| Uméa       | 1Sg | 52.1       |  |  |  |
| Uddeholm   | 1Sn | 52.7       |  |  |  |
| Skalstugan | eSg | 53 09      |  |  |  |
| Kongsberg  | 1P  | 12.2       |  |  |  |
| Kiruna     | eSg | 50         |  |  |  |

XIII.- 13 Janvier

Iles aux Renards (Aléoutiennes)

$52^{\circ}4 N$  ;  $171^{\circ}2 W$  ;  $h = 33^km$  ;  $H = 12^h.43^{mn}32^s$ . (CGS)

$M. = 4.1$ (Tonto Forest - Wichita M.) ;  $4.0$ (CGS - Uinta Basin).

|              |    |          |                       |      |      |
|--------------|----|----------|-----------------------|------|------|
| Adak         | eP | 12 44 23 |                       | 365  | 3.3  |
| College      | eP | 47 33    |                       | 1920 | 17.3 |
| Newport      | eP | 50 15    |                       | 3790 | 34.1 |
| Nordman      | eP | 15       |                       | 3780 | 34.0 |
| Eureka       | eP | 51 02    |                       | 4400 | 39.6 |
| Goldstone    | P  | 20       | <sup>a</sup> 12 51 31 | 4635 | 41.7 |
| Uinta Basin  | eP | 30.1     |                       | 4789 | 43.0 |
| Tonto Forest | eP | 52.5     |                       | 5090 | 45.8 |
| Wichita M.   | eP | 52 58.8  |                       | 5910 | 53.2 |

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Vallée du Zambèze.

$15^{\circ}5 S$  ;  $31^{\circ}0 E$  ;  $H = 12^h.47^{mn}54^s$  ;  $M. = 3.1$ (Bulawayo)

|             |     |           |              |  |  |
|-------------|-----|-----------|--------------|--|--|
| Karoi       | 1Pn | 12 48 26D | 1Sn 12 48 52 |  |  |
| Broken Hill | ePn | 36        | eSn 49 16    |  |  |
| Bulawayo    | ePn | 49 10     | eSg 50 31    |  |  |

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Région de la Nouvelle Bretagne

H = 13<sup>h</sup>.08<sup>mn</sup>42<sup>s</sup>. ; M. = 4.3 (Rabaul)

|                |    |            |    |            |
|----------------|----|------------|----|------------|
| Rabalanakala   | 1P | 13 09 02.8 |    |            |
| Rabaul         | 1P | 02.9       | 1S | 13 09 18.5 |
| Wanliss Street | 1P | 03         |    |            |
| Keravat        | 1P | 04.5       | 1S | 21         |

XVI.- 13 Janvier

Iles Loyauté

20° 5 S ; 169° 0 E ; H = 13<sup>h</sup>.24<sup>mn</sup>30<sup>s</sup>. (Nouméa)

M. = 3.5 (Nouméa)

|           |       |                         |    |            |
|-----------|-------|-------------------------|----|------------|
| Ouanaham  | 1P    | 13 25 00.4 <sup>D</sup> | 1S | 13 25 19.5 |
| Port Vila | 1P    | 15.7 <sup>D</sup>       | 1S | 48         |
| Nouméa    | ei(P) | 16.2                    | 1S | 52.5       |
| Koumac    | 1P    | 36.7 <sup>C</sup>       | 1S | 26 25.5    |

Inscrit à Luganville.

XVII.- 13 Janvier

Haute Silésie (Pologne)

|                |      |                   |        |          |
|----------------|------|-------------------|--------|----------|
| Dabrowa        | e    | 13 26 24.6        |        |          |
| Chorzow        | eP   | 26                | 1      | 13 26 35 |
| Zabrze         | e    | 29                |        |          |
| Bytom          | e    | 30.5              |        |          |
| Krakow         | eiPg | 33.2 <sup>D</sup> | ei(Sg) | 40.9     |
| Raciborz       | e    | 38                |        |          |
| Niedzica       | 1Pg  | 43.3              | eiSg   | 27 00.3  |
| Rybnick        | e    | 44                |        |          |
| Kasperské Hory | ei   | 27 36             |        |          |

XVIII.- 13 Janvier

Nouvelles Hébrides (Ile Vaté)

H = 14<sup>h</sup>.51<sup>mn</sup>26<sup>s</sup>. (Nouméa)

|            |     |                         |    |            |
|------------|-----|-------------------------|----|------------|
| Port Vila  | 1P  | 14 51 40.3 <sup>D</sup> | 1S | 14 51 51.5 |
| Lonore     | eiP | 51.4                    | 1S | 52 02      |
| Luganville | eiP | 53.8                    | 1S | 14         |

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Witwatersrand

26° 6 S ; 27° 1 E ; H = 15<sup>h</sup>.34<sup>m</sup>40<sup>s</sup>. (Bulawayo)

M. = 3.2 (Bulawayo)

|          |     |          |     |          |
|----------|-----|----------|-----|----------|
| Bulawayo | dPn | 15 36 16 | eSg | 15 38 00 |
| Karoi    | ePn | 37 04    | eSn | 46       |

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Province de San Juan (Argentine)

31° 2 S ; 68° 4 W ; h = 109km ; H = 15<sup>h</sup>.55<sup>m</sup>46<sup>s</sup>. (CGS)

M. = 4.3 (Tonto Forest); 4.2 (Blue M.); 4.1 (CGS - Wichita M.); 4.0 (Penas); 3.8 (Uinta Basin).

|              |    |            |      |            |      |      |
|--------------|----|------------|------|------------|------|------|
| Zonda        | 1P | 15 58 01.7 | 1S   | 15 58 14.2 | 45   | 0.4  |
| Peldehue     | eP | 28         | e    | 16 10 33   | 300  | 2.7  |
| Santiago     | eP | 31.2       |      |            | 320  | 2.9  |
| Antofagasta  | eP | 57 33      | e(S) | 59 03      |      |      |
| La Paz       | eP | 59 10      |      |            | 1620 | 14.6 |
| Penas        | P  | 12.3       |      |            | 1655 | 14.9 |
| Byrd         | eP | 16 04 52.8 |      |            | 5890 | 53.0 |
| Wichita M.   | eP | 06 49.7    |      |            | 7945 | 71.5 |
| Tonto Forest | eP | 07 28.3    |      |            | 8510 | 76.6 |
| Uinta Basin  | eP | 47.7       |      |            | 8965 | 80.7 |
| Blue M.      | eP | 08 23      |      |            | 9755 | 87.8 |

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Province de Salta (Argentine)

24° 2 S ; 66° 9 W ; h = 192km ; H = 16<sup>h</sup>.07<sup>m</sup>04.2<sup>s</sup>. (CGS)  
24° 4 S ; 66° 9 W ; H = 16<sup>h</sup>.06<sup>m</sup>46<sup>s</sup>. (URSS)

M. = 6.3 (Edmonton); 6.2 (Cumberland Pl. - South Pole); 6.1 (College); 5.9 (URSS - Lasa Center - Oroville - Balboa Heights); 5.7 (Caracas - CGS - Stuttgart); 5.6 (Blue M. - Wichita M.); 5.5 (Palisades - Albuquerque - Eureka); 5.4 (Berkeley - Tonto Forest - Uinta Basin); 5.3 (Bozeman SSS); 5.2 (Golden);

|             |    |                      |      |          |     |     |
|-------------|----|----------------------|------|----------|-----|-----|
| Calama      | eP | 16 07 47             |      |          | 290 | 2.6 |
| Antofagasta | 1P | 52.4 <sup>C</sup>    | 1(S) | 16 08 28 | 360 | 3.3 |
| Cochabamba  | 1P | 08 41.7 <sup>C</sup> |      |          | 755 | 6.8 |
| Copiapo     | e  | 44                   | eS   | 09 03.4  | 515 | 4.6 |
| Zonda       | eP | 47.8                 |      |          | 835 | 7.5 |
| La Paz      | 1P | 54.4 <sup>D</sup>    | S    | 10 24    | 855 | 7.7 |
| Penas       | 1P | 58 <sup>D</sup>      | 1S   | 82       | 890 | 8.0 |

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|                   |    |                   |       |          |      |      |
|-------------------|----|-------------------|-------|----------|------|------|
| Peldehue          | eP | 16 09 11·5        | e     | 16 10 33 | 1055 | 9·5  |
| Santiago          | eP | 15                |       |          | 1090 | 9·8  |
| La Plata          | 1P | 10 04             |       |          | 1465 | 13·2 |
| Concepcion        | eP | 06·5              | eS    | 12 35·5  | 1515 | 13·6 |
| Nana              | 1P | 30                | 1S    | 13 28    | 1710 | 15·4 |
| Valdivia          | eP | 42                | eS    | 44       | 1830 | 16·4 |
| Quito             | P  | 12 23             | (S)   | 17 00    | 2935 | 28·4 |
| Bogota            | 1P | 52·3              | 1S    | 34       | 3280 | 29·5 |
| Chinchina         | 1P | 13 00             |       |          | 3555 | 30·2 |
| Caracas           | 1P | 34·2 <sup>D</sup> | 1S    | 18 44    | 3835 | 34·5 |
| Trinidad          | 1P | 40·7              |       |          | 3900 | 35·1 |
| Balboa Heights    | 1P | 43·3              | e     | 15 53·8  | 3910 | 35·2 |
| Vista Hermosa     | 1P | 15 44·5           |       |          | 5800 | 50·4 |
| Nat.Univ.Mexico   | 1P | 16 08             | 1S    | 23 36    | 5945 | 53·5 |
| Presa Infiernillo | 1P | 11 <sup>D</sup>   | 1P    | 16 54    | 6030 | 54·3 |
| Tacubaya          | 1P | 11                | eS    | 23 37    | 5945 | 53·5 |
| Léon              | 1P | 30                | 1P    | 17 13    | 6260 | 58·3 |
| Byrd              | eP | 52·1              | 1PP   | 19 08    | 6680 | 60·1 |
| Cumberland Pl.    | 1P | 17 05·1           |       |          | 6890 | 62·0 |
| M'Bour            | 1P | 07                | 1D    | 25 04    | 6895 | 62·0 |
| Novo_Lazarevskaya | 1P | 15·5 <sup>D</sup> | 1S    | 37       | 7075 | 63·7 |
| Morgan town       | 1P | 23·5              |       |          | 7190 | 64·7 |
| Palisades         | eP | 26                | e(SP) | 18 11    | 7245 | 65·2 |
| Tulsa             | 1P | 30                | 1S    | 26 00    | 7300 | 65·7 |
| Wichita M.        | eP | 30·4              | eS    | 00       | 7310 | 65·8 |
| South Pole        | 1P | 30·5              | eS    | 10·6     | 7320 | 65·9 |
| Lubbock           | eP | 33                | eS    | 09       | 7380 | 66·4 |
| Weston            | 1P | 33·9              | eS    | 08       | 7380 | 66·4 |
| Lanto             | P  | 40·7              |       |          | 7490 | 67·4 |
| Ann Arbor         | eP | 42                | S     | 24       | 7545 | 67·9 |
| Lawrence          | 1P | 44·9              | eS    | 29       | 7580 | 68·2 |
| Berlin            | eP | 48                |       |          | 7620 | 68·6 |
| Manhattan         | eP | 49                |       |          | 7655 | 68·9 |
| Ottawa            | eP | 54                |       |          | 7745 | 69·7 |
| Brébeuf           | 1P | 54 <sup>D</sup>   | 1     | 18 39·5  | 7735 | 69·6 |
| Dubuque           | P  | 54·6              |       |          | 7765 | 69·9 |
| Albuquerque       | 1P | 55·5 <sup>D</sup> | e     | 41       | 7745 | 69·7 |
| Tonto Forest      | 1P | 18 08·4           | eS    | 27 20·6  | 7980 | 71·8 |
| Ténériffe         | P  | 10·2              | S     | 19·7     | 7955 | 71·6 |
| Golden            | eP | 14·7              | eS    | 28       | 8110 | 73·0 |
| Lomé              | 1P | 16                | eS    | 27       | 8090 | 72·8 |
| Flagstaff         | 1P | 16·5              | 1     | 36·5     | 8090 | 72·8 |
| Scott Base        | P  | 17                |       |          | 8165 | 73·5 |
| Syowa             | 1P | 17·4              | 1S    | 29       | 8145 | 73·3 |
| Sa da Bandeira    | 1P | 28·6              |       |          | 8390 | 75·5 |
| Uinta Basin       | eP | 29·3              | eS    | 56·1     | 8390 | 75·5 |
| Tiputa            | 1P | 31                |       |          | 8410 | 75·7 |
| Pasadena          | 1P | 31 <sup>D</sup>   | e(SP) | 19 17    | 8410 | 75·7 |
| Salt Lake City    | eP | 35                | e     | 43·5     | 8545 | 76·9 |
| Papenoo           | 1P | 35                |       |          | 8490 | 76·4 |
| Papeete           | 1P | 36                |       |          | 8500 | 76·5 |



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|                   |     |       |                   |       |            |       |      |
|-------------------|-----|-------|-------------------|-------|------------|-------|------|
| Tahiti            | 1P  | 16 18 | 36.6              |       |            | 8500  | 76.5 |
| Eureka            | 1P  |       | 44.5              |       |            | 8690  | 78.2 |
| Priest            | eP  |       | 47.0 <sup>D</sup> | e     | 16 19 06.6 | 8735  | 78.6 |
| Lasa Center       | 1P  |       | 47.5              | 1(sP) | 34.2       | 8780  | 79.0 |
| Grahamstown       |     |       | 50                |       |            | 8870  | 79.8 |
| Stone Canyon Obs. | eP  |       | 50.5              |       |            | 8810  | 79.3 |
| San Luis Dam      | 1P  |       | 52.1              | 1sP   | 47.5       | 8835  | 79.5 |
| Jamestown         | 1P  |       | 52.2 <sup>D</sup> | 1     | 14         | 8845  | 79.6 |
| Holy Cross        | eP  |       | 53                |       |            | 8865  | 79.8 |
| Mt. Hamilton      | eP  |       | 54.5 <sup>D</sup> |       |            | 8890  | 80.0 |
| Castle Rock       | eP  |       | 55.5              |       |            | 8910  | 80.2 |
| Bozeman SSS       | 1P  |       | 56 <sup>D</sup>   | e(sP) | 40         | 8945  | 80.5 |
| Mount Diablo      | eP  |       | 57.1              |       |            | 8945  | 80.5 |
| Averroes          | P   |       | 57.5              |       |            | 8940  | 80.5 |
| Berkeley          | eP  |       | 57.8 <sup>D</sup> |       | 30 14      | 8965  | 80.7 |
| Butte             | 1P  |       | 59.8 <sup>D</sup> | e     | 47.3       | 9020  | 81.2 |
| Rabat             | eP  | 19    | 00                |       |            | 9035  | 81.3 |
| Mawson            | 1P  |       | 00                | 1     | 33 55      | 9025  | 81.2 |
| Olema             | eP  |       | 00.2              |       |            | 9010  | 81.1 |
| Oroville          | 1P  |       | 00.8              | eS    | 29 03      | 9035  | 81.3 |
| Mineral           | eP  |       | 02.7 <sup>D</sup> |       |            | 910.5 | 81.9 |
| Ifrane            | P   |       | 07 <sup>D</sup>   |       |            | 9135  | 82.2 |
| Blue M.           | 1P  |       | 07.4 <sup>D</sup> | e(sP) | 19 54      | 9190  | 82.7 |
| Lisboa            | 1P  |       | 12.1              | S     | 29 13.7    | 9185  | 82.7 |
| Hungry Horse      | 1P  |       | 12.6 <sup>D</sup> | e(sP) | 20 00.8    | 9290  | 83.6 |
| Arcata            | eP  |       | 13.6 <sup>D</sup> |       |            | 9300  | 83.7 |
| Rarotonga         | eP  |       | 15                |       |            | 9335  | 84.0 |
| Spokane           | 1P  |       | 18.1 <sup>D</sup> |       |            | 9410  | 84.7 |
| Newport           | 1P  |       | 18.4              |       |            | 9445  | 85.0 |
| Tamanrasset       | 1P  |       | 19 <sup>C</sup>   | 1S    | 19 32      | 9380  | 84.4 |
| Norman            | 1P  |       | 19.4              |       |            | 9465  | 85.2 |
| Almería           | eP  |       | 24                | eS    | 29 36      | 9535  | 85.8 |
| Longmire          | 1P  |       | 25.1              | d     | 19 29.4    | 9585  | 86.3 |
| Edmonton          | 1P  |       | 27.9 <sup>D</sup> |       |            | 9665  | 87.0 |
| Bilawayo          | eP  |       | 29                | eSKS  | 29 46      | 9635  | 86.7 |
| Terre Adélie      | 1P  |       | 29.8              |       |            | 9690  | 87.2 |
| Mimmy             | 1P  |       | 33                |       |            | 9810  | 88.3 |
| Banguil           | 1P  |       | 33.7 <sup>D</sup> | 1S    | 41.7       | 9740  | 87.6 |
| Alicante          | eP  |       | 34                | 1S    | 30 11      | 9845  | 88.6 |
| Broken Hill       | eP  |       | 40                | 1PP   | 23 11      | 9885  | 89.0 |
| Karoi             | eP  |       | 41                | 1PP   | 13         | 9885  | 89.0 |
| Tortosa           | eP  |       | 48                | 1(S)  | 30 02      | 9995  | 89.9 |
| Bagnères          | eP  |       | 49                |       |            | 10105 | 90.9 |
| Sétif             | 1P  |       | 49                | 1     | 20 04      | 10095 | 90.9 |
| Wellington        | eP  |       | 54                | e(S)  | 31 40      | 10365 | 93.3 |
| La Frestale       | e1P |       | 54.9              |       |            | 10255 | 92.3 |
| Archignac         | e1P |       | 56.4              |       |            | 10300 | 92.7 |
| Toulx Ste Croix   | e1P | 20    | 02.1              |       |            | 10435 | 93.9 |
| Monowai           | eP  |       | 05                |       |            | 10510 | 94.6 |
| Garchy            | eP  |       | 05.8              |       |            | 10545 | 94.9 |
| Karapiro          | eP  |       | 06                |       |            | 10540 | 94.9 |
| La Mourre         | 1P  |       | 08                |       |            | 10565 | 95.1 |

|                  |                   |       |                   |      |          |       |       |
|------------------|-------------------|-------|-------------------|------|----------|-------|-------|
| Les Buteaux      | eIP               | 16 20 | 08·3              |      |          | 10590 | 95·3  |
| Lorgues          | eIP               |       | 08·4              |      |          | 10560 | 95·0  |
| Sommée Lormes    | eIP               |       | 08·4              |      |          | 10595 | 95·4  |
| Toledo           | epP               |       | 09                | i(S) | 16 30 23 | 9615  | 86·5  |
| Monteynard       | eIP               |       | 09                |      |          | 10595 | 95·3  |
| St. Paul en F.   | eIP               |       | 09·1              |      |          | 10590 | 95·3  |
| Roselend         | eIP               |       | 13                | epP  | 21 01    | 10695 | 96·3  |
| Lanslevillard    | eIP               |       | 14                | eipP | 01·3     | 10695 | 96·3  |
| Haudompré        | eIP               |       | 16·8              |      |          | 10800 | 97·2  |
| Champ du Feu     | eIP               |       | 20·1              |      |          | 10880 | 97·9  |
| Welschbruch      | eP                |       | 20·5              |      |          | 10885 | 98·0  |
| Stuttgart        | eP                |       | 20·5              | e    | 33 14    | 11035 | 99·3  |
| Padova           | eP                |       | 22                | eIS  | 31 52    | 11050 | 99·5  |
| Afiamalù         | eP                |       | 24                | eS   | 54       | 10835 | 97·5  |
| Resolùte         | iP                |       | 29·6 <sup>c</sup> |      |          | 11145 | 100·3 |
| Fürstenfeldbruck | iP                |       | 32                | ipP  | 21 21    | 11135 | 100·2 |
| Trieste          | eP                |       | 32·7              | iS   | 31 56    | 11200 | 100·8 |
| Erlangen         | eP                |       | 33·9 <sup>c</sup> | ePP  | 24 43·9  | 11205 | 100·8 |
| Kasperské Hory   | P                 |       | 33                |      |          | 11335 | 102·0 |
| Collm            | eP                |       | 41                | iSKS | 31 08    | 11390 | 102·5 |
| Pruhonice        | eP                |       | 41                |      |          | 11435 | 102·9 |
| Moxa             | eP                |       | 43                |      |          | 11280 | 101·5 |
| Gilmore Creek    | eP                | 21    | 02·1              |      |          | 11980 | 107·8 |
| College          | iP                |       | 03·1              |      |          | 11990 | 107·9 |
| Strasbourg       | epP               |       | 05                | eIS  | 40       | 10925 | 98·3  |
| L'Aquila         | epP               |       | 10                | iSKS | 30 44    | 11020 | 99·2  |
| Bensberg         | epP               |       | 12                | eISP | 33 12    | 11005 | 99·1  |
| Roma             | epP               |       | 12                | i    | 25 22    | 10935 | 98·4  |
| Canberra         | eP                |       | 25                | ipP  | 52       | 12515 | 111·7 |
| Köbenhavn        | ipP               |       | 43·5              |      |          | 11545 | 103·9 |
| Addis Ababa      | epP               |       | 52                |      |          | 11985 | 107·9 |
| Oujgorod         | ePKP <sub>1</sub> | 25    | 05                |      |          | 11915 | 107·3 |
| Krakow           | ePP               |       | 12                | eSKS | 31 13    | 11800 | 106·2 |
| Uddeholm         | ePP               |       | 14                |      |          | 11790 | 106·1 |
| Nurmijaerwi      | PKP               |       | 16·8              | eSKS | 40       | 12390 | 111·5 |
| Uméa             | iPKP              |       | 17·2              | iSKS | 39       | 12245 | 110·2 |
| Oulu             | ePKP              |       | 19                |      |          | 12535 | 112·8 |
| Kajaani          | PKP               |       | 20                | i    | 36 12·1  | 12610 | 113·5 |
| Sodankylä        | PKP               |       | 21                |      |          | 12600 | 113·4 |
| Brisbane         | PKP               |       | 27                | i    | 22       | 1260  | 116·0 |
| Kheis            | ePKP <sub>1</sub> |       | 31                |      |          | 13245 | 119·2 |
| Goris            | ePKP <sub>1</sub> |       | 34                |      |          | 13610 | 122·5 |
| Adak             | PKP               |       | 34·3              |      |          | 13410 | 120·7 |
| Bakouriani       | ePKP <sub>1</sub> |       | 35·8              |      |          | 13400 | 120·6 |
| Kirovabad        | PKP               |       | 39                |      |          | 13620 | 122·6 |
| Tabriz           | PKP               |       | 39                | i    | 33 53    | 13590 | 122·3 |
| Mundaring        | PKP               |       | 40·4              |      |          | 13790 | 124·1 |
| Téhéran          | PKP               |       | 41                |      |          | 14100 | 126·1 |
| Char ters Towers | PKP               |       | 44                | i    | 29 04    | 13935 | 125·4 |
| Chiraz           | PKP               |       | 46                |      |          | 14065 | 126·6 |
| Port Moresby     | PKP               |       | 51                |      |          | 14755 | 132·8 |

|                   |                   |                         |    |          |       |       |
|-------------------|-------------------|-------------------------|----|----------|-------|-------|
| Meekathara        | ePKP <sub>1</sub> | 16 25 51·3 <sup>D</sup> |    |          | 14355 | 129·1 |
| Sverdlovsk        | ePKP <sub>1</sub> | 53                      |    |          | 14475 | 130·3 |
| Magadan           | ePKP <sub>1</sub> | 54                      |    |          | 15105 | 136·0 |
| Tiksi             | iPKP <sub>1</sub> | 54                      |    |          | 14635 | 131·7 |
| Kizyl-Arvat       | ePKP <sub>1</sub> | 55                      |    |          | 14460 | 130·1 |
| Qietta            | PKP               | 26 03·5                 |    |          | 15420 | 138·8 |
| Petropavlovsk     | ePKP <sub>1</sub> | 04                      |    |          | 15035 | 135·3 |
| Yakoutsk          | iPKP <sub>1</sub> | 04 <sup>D</sup>         |    |          | 15615 | 140·5 |
| Mashad            | ei (PKP)          | 05·5                    | ei | 16 29 16 | 14750 | 132·8 |
| Douchambé         | ePKP <sub>1</sub> | 06                      |    |          | 15545 | 139·9 |
| Garm              | ePKP <sub>1</sub> | 07                      |    |          | 15670 | 141·1 |
| Samarkand         | ePKP <sub>1</sub> | 10                      |    |          | 15380 | 138·4 |
| Talgar            | iPKP <sub>1</sub> | 11 <sup>D</sup>         |    |          | 16120 | 145·1 |
| Warsak            | ePKP              | 11·1                    |    |          | 15835 | 142·5 |
| Tachkent          | ePKP <sub>1</sub> | 12 <sup>C</sup>         |    |          | 15540 | 139·9 |
| Dehra Dun         | iPKP              | 14 <sup>D</sup>         | i  | 27 08    | 16480 | 148·3 |
| Semipalatinsk     | PKP <sub>1</sub>  | 15·7                    |    |          | 15950 | 143·3 |
| Frounze           | iPKP <sub>1</sub> | 16 <sup>C</sup>         |    |          | 15925 | 143·3 |
| Poona             | PKP               | 17                      |    |          | 15900 | 143·1 |
| Kodakanal         | iPKP              | 17·5                    |    |          | 15930 | 143·4 |
| Mangla            | iPKP              | 19·5 <sup>D</sup>       |    |          | 16055 | 144·5 |
| Lahore            | PKP               | 21                      |    | 36 20    | 16120 | 145·1 |
| Bombay            | ePKP              | 31                      | e  | 39 17    | 15805 | 142·3 |
| Bodajbo           | iPKP <sub>1</sub> | 21·5 <sup>D</sup>       |    |          | 16265 | 146·4 |
| Youjno-Sakhalinsk | ePKP <sub>1</sub> | 24                      |    |          | 16355 | 147·2 |
| Guam              | PKP               | 24                      | e  | 27 34    | 16455 | 148·1 |
| Madras            | ePKP              | 25                      |    |          | 16330 | 147·0 |
| New Dehli         | PKP               | 25                      | e  | 36 28    | 16410 | 147·7 |
| Bhakra            | iPKP              | 26·5                    |    |          | 16320 | 146·9 |
| Khorog            | ePKP <sub>1</sub> | 27                      |    |          | 15805 | 142·2 |
| Irkoutsk          | ePKP <sub>1</sub> | 31                      |    |          | 16795 | 151·2 |
| Mt. Tsukuba       | PKP               | 34·5                    | e  | 28 43·4  | 17090 | 153·8 |
| Esen-Boulak       | ePKP              | 35                      |    |          | 18117 | 154·0 |
| Bokaro            | ePKP              | 35                      |    |          | 17230 | 155·1 |
| Dodaira           | PKP               | 35·5                    | e  | 27 50·7  | 17180 | 154·6 |
| Matsushiro        | PKP               | 37                      | SS | 50 00    | 17240 | 155·2 |
| Vladivostok       | ePKP <sub>1</sub> | 37 <sup>C</sup>         |    |          | 17290 | 155·6 |
| Oulan-Bator       | iPKP              | 38                      |    |          | 17315 | 155·8 |
| Chatra            | iPKP              | 39 <sup>C</sup>         | i  | 37 19    | 17385 | 156·5 |
| Vi shakhapatnam   | e (PKP)           | 39                      |    |          | 16830 | 151·5 |
| Davao             | PKP               | 41                      |    |          | 17690 | 159·2 |
| Shiraki           | PKP               | 44·3                    |    |          | 17740 | 160·1 |
| Kiyosumi          | PKP               | 45·2                    |    |          | 17120 | 154·1 |
| Oshiyama          | PKP               | 45·5                    |    |          | 17580 | 158·2 |
| Chittagong        | ePKP              | 49                      |    |          | 17820 | 160·4 |
| Baguio            | PKP               | 50·8                    |    |          | 18835 | 169·5 |
| Anpu              | PKP               | 51                      |    | 32 11·5  | 19145 | 172·3 |
| Kevo              | epPP              | 54                      | e  | 33 44    | 12645 | 113·8 |
| Hong-Kong         | PKP               | 55                      | i  | 32 36    | 18765 | 177·9 |

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Région de la Nouvelle-Bretagne

H = 20<sup>h</sup>.07<sup>m</sup>.9<sup>mm</sup>(; M. = 4.7(Rabaul)

|                |     |                       |    |          |
|----------------|-----|-----------------------|----|----------|
| Keravat        | iP  | 20 08 19 <sup>D</sup> | 1S | 20 08 38 |
| Rabalanakaia   | eIP | 21.2                  |    |          |
| Wanliss Street | eIP | 21.3 <sup>D</sup>     |    |          |
| Rabaul         | eIP | 21.5                  | 1S | 43       |

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Région de Hokkaido (Japon)

42° 4' N ; 141° 3' E ; h = 59km ; H = 20<sup>h</sup>.47<sup>m</sup>14<sup>s</sup>.(CGS)  
 42° 08' N ; 141° 27' E ; h = 110km ; H = 20<sup>h</sup>.47<sup>m</sup>21.2<sup>s</sup>.(JMA)

M. = 5.3(Mt. Tsukuba); 4.9(NurmiJaerwi); 4.8(Kajaani); 4.5(CGS -  
 Uinta Basin); 4.3(Wichita M.); 4.0(Tonto Forest); 3.9(Blue M.).

|              |    |            |    |            |      |      |
|--------------|----|------------|----|------------|------|------|
| Sapporo      | iP | 20 47 42.5 | 1S | 20 47 57.5 |      |      |
| Obihiro      | iP | 50.1       | 1S | 48 10.8    |      |      |
| Morioka      | iP | 48 00.7    | 1S | 29.2       |      |      |
| Mizusawa     | eP | 09.5       | eS | 45         |      |      |
| Mt. Tsukuba  | iP | 44.7       |    |            | 690  | 6.2  |
| Matsushiro   | iP | 50         | S  | 50 02      |      |      |
| Dodaira      | iP | 51.3       |    |            | 735  | 6.6  |
| Kyosumi      | eP | 58.7       |    |            | 800  | 7.2  |
| Resolute     | eP | 56 59      |    |            | 6390 | 57.5 |
| Kevo         | eP | 57 13      |    |            | 6500 | 58.5 |
| Sodankylä    | eP | 17         |    |            |      |      |
| Oulu         | eP | 28         |    |            |      |      |
| Kajaani      | iP | 28.5       |    |            | 6865 | 61.8 |
| Kiruna       | eP | 30         |    |            |      |      |
| Umeå         | iP | 45.8       |    |            |      |      |
| NurmiJaerwi  | iP | 51.2       |    |            | 7255 | 65.3 |
| Blue M.      | eP | 58 11.4    |    |            | 7600 | 68.4 |
| Uinta Basin  | eP | 55.6       |    |            | 8410 | 78.7 |
| Tonto Forest | eP | 59 13.9    |    |            | 8765 | 78.9 |
| Wichita M.   | eP | 47.3       |    |            | 9520 | 85.7 |

XXIV.- 13 Janvier

Région frontiere Chili-Argentine

24° 3' S ; 67° 0' W ; h = 177km ; H = 21<sup>h</sup>.29<sup>m</sup>26.4<sup>s</sup>.(CGS)

M. = 5.6(South Pole); 5.5(La Paz); 5.2(Lasa Center); 5.0(Cumberland Pl -  
 Albuquerque); 4.9(Eureka); 4.8(CGS - Tucson); 4.7(La Palma);  
 4.6(Wichita M. - Tonto Forest); 4.5(Bozeman SSS - Blue M.);  
 4.3(Golden - Uinta Basin).

|        |    |            |  |     |     |
|--------|----|------------|--|-----|-----|
| Calama | iP | 21 30 10.1 |  | 290 | 2.6 |
|--------|----|------------|--|-----|-----|

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|                |                  |       |                   |       |          |       |       |
|----------------|------------------|-------|-------------------|-------|----------|-------|-------|
| Antofagasta    | 1P               | 21 30 | 15.5 <sup>C</sup> | 1S    | 21 30 52 |       |       |
| Cochabamba     | 1P               | 31    | 06.2              |       |          |       |       |
| La Paz         | 1P               |       | 19.5 <sup>C</sup> | S     | 32 41    | 965   | 7.8   |
| Penas          | 1P               |       | 22 <sup>D</sup>   | S     | 48       | 900   | 8.1   |
| Peldehue       | eP               |       | 34                | eS    | 33 16    |       |       |
| Valdivia       | eP               | 33    | 07                |       |          |       |       |
| La Palma       | 1P               | 37    | 18.6 <sup>D</sup> |       |          | 4890  | 44.0  |
| Byrd           | eP               | 39    | 16.2              | e     | 39 26.4  | 6680  | 60.1  |
| Cumberland Pl. | eP               |       | 28.7              |       |          | 6900  | 62.1  |
| Wichita M.     | eP               |       | 52.5              | ePcP  | 40 24.8  | 7320  | 65.9  |
| South Pole     | 1P               |       | 54.4              |       |          | 7320  | 65.9  |
| Lamto          | P                | 40    | 04.6              |       |          | 7500  | 67.5  |
| Albuquerque    | 1P               |       | 19.2 <sup>D</sup> |       |          | 7755  | 69.8  |
| Tucson         | eP               |       | 21.2              |       |          | 7799  | 70.1  |
| Tonto Forest   | eP               |       | 32.3              |       |          | 7980  | 71.8  |
| Golden         | eP               |       | 38.6              |       |          | 8110  | 73.0  |
| Uinta Basin    | eP               |       | 53.2              |       |          | 8390  | 75.5  |
| Pasadena       | 1P               |       | 55                |       |          | 8420  | 75.8  |
| Tiputa         | 1P               |       | 55.5              |       |          | 8400  | 75.6  |
| Papeete        | 1P               |       | 58                |       |          | 8490  | 76.4  |
| Papenoo        | 1P               |       | 58                |       |          | 8480  | 76.3  |
| Eureka         | 1P               | 41    | 08.3              |       |          | 8690  | 78.2  |
| Priest         | eP               |       | 11.0 <sup>C</sup> |       |          | 8735  | 78.6  |
| Lasa Center    | 1P               |       | 11.4              | 1(SP) | 41 57.4  | 8780  | 79.0  |
| San Luis Dam   | eP               |       | 15.7              |       |          | 8845  | 79.6  |
| Jamestown      | eP               |       | 15.7              |       |          | 8855  | 79.7  |
| Mt. Hamilton   | eP               |       | 18.1 <sup>D</sup> |       |          | 8890  | 80.0  |
| Bozeman SSS    | eP               |       | 20.2              |       |          | 8945  | 80.5  |
| Berkeley       | eP               |       | 21.2 <sup>D</sup> |       |          | 8965  | 80.7  |
| Butte          | eP               |       | 24.6 <sup>D</sup> |       |          | 9035  | 81.3  |
| Oroville       | 1P               |       | 24.8              |       |          | 9045  | 81.4  |
| Ifrane         | P                |       | 31                |       |          | 9135  | 82.2  |
| Blue M.        | eP               |       | 31.5              |       |          | 9190  | 82.7  |
| Hungry Horse   | eP               |       | 36.1              |       |          | 9300  | 83.7  |
| Newport        | eP               |       | 42                |       |          | 9445  | 85.0  |
| Tamanr asset   | 1P               |       | 42 <sup>C</sup>   |       |          |       |       |
| Nordman        | eP               |       | 43                |       |          | 9465  | 85.2  |
| Bangui         | 1P               |       | 50.1              | 1PP   | 45 15.7  |       |       |
| Edmonton       | 1P               |       | 51                |       |          | 9665  | 87.0  |
| Bilawayo       | eP               |       | 53                |       |          |       |       |
| Broken Hill    | eP               | 42    | 05                |       |          |       |       |
| Karoi          | eP               |       | 05                |       |          |       |       |
| Warramunga     | ePKP             | 48    | 06                |       |          |       |       |
| Quetta         | PKP              |       | 35.1              |       |          | 15420 | 138.8 |
| New Dehli      | PKP              |       | 49                |       |          | 16410 | 147.7 |
| Mt. Tsukuba    | PKP <sub>2</sub> | 49    | 20                |       |          | 17090 | 153.8 |
| Matsushiro     | PKP <sub>2</sub> |       | 25                |       |          |       |       |

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Iles Loyauté

20°5 S ; 169°5 E ; H = 21h.57<sup>mn</sup>26<sup>s</sup>. (Nouméa)

M. = 3.4 (Nouméa)

|           |     |       |                   |    |       |      |
|-----------|-----|-------|-------------------|----|-------|------|
| Ouanaham  | 1P  | 21 57 | 57.4 <sup>D</sup> | 1S | 21 58 | 15.5 |
| Port Vila | e1P | 58    | 15.4              | 1S |       | 51.5 |
| Nouméa    | 1P  |       | 18.2 <sup>C</sup> | 1S |       | 58   |
| Koumac    | e1P |       | 38.8              | 1S | 59    | 36   |

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Crête médiane à l'Ouest du Chili

43°1 S ; 81°9 W ; h = 33<sup>km</sup> ; H = 22h.38<sup>mn</sup>22<sup>s</sup>. (CGS)

M. = 5.1 (Penas); 4.9 (La Paz); 4.7 (Wichita M.); 4.6 (CGS); 4.5 (Uinta Basin); 4.2 (Tonto Forest - Eureka).

|                |     |       |      |      |       |      |             |
|----------------|-----|-------|------|------|-------|------|-------------|
| Peldehue       | eP  | 22 39 | 29   |      |       | 1480 | 13.3        |
| Antofagasta    | eP  | 41    | 11.2 | e(S) | 22 45 | 21   |             |
| Cochabamba     | eP  | 42    | 20.7 |      |       |      |             |
| Penas          | eP  | 22    |      | S    | 47    | 00   | 3235 29.1   |
| La Paz         | 1P  | 22.1  |      | S    |       | 18   | 3220 29.0   |
| Eyrd           | eP  | 49.7  |      |      |       |      | 4390 39.5   |
| South Pole     | eP  | 44    | 51.2 |      |       |      | 5235 47.1   |
| Caracas        | eP  | 45    | 52   | e1S  | 53    | 42   |             |
| Cumberland Pl. | eP  | 48    | 19.5 |      |       |      | 8710 78.4   |
| Wichita M.     | eP  | 22    |      | ePcP | 48    | 36.9 | 8780 79.0   |
| Albuquerque    | eP  | 27    |      |      |       |      | 8990 80.9   |
| Tonto Forest   | eP  | 38.3  |      |      |       |      | 9065 81.6   |
| Goldstone      | P   | 54    |      | sp   | 49    | 04   | 9365 84.3   |
| Lanto          | P   | 56    |      |      |       |      | 9410 84.7   |
| Uinta Basin    | eP  | 58.3  |      |      |       |      | 9635 86.7   |
| Eureka         | P   | 49    | 09   |      |       |      | 9755 87.8   |
| Quetta         | PKP | 56    | 16   |      |       |      | 10900 152.1 |

inscrit à M' Bour.

XXVII.- 13 Janvier

Prs de la cote sud du Mexique.

16°06'N; 99°33' W ; H = 22h.45<sup>mn</sup>24<sup>s</sup>. (Tacubaya)

|                  |    |       |    |    |       |      |         |
|------------------|----|-------|----|----|-------|------|---------|
| Vista Hermosa    | 1P | 22 46 | 11 |    |       | 343  | 3.1     |
| Presa Infernillo | 1P |       | 15 |    |       | 350  | 3.1     |
| Nat.Univ.Mexico  | 1P |       | 17 | 1S | 22 46 | 56.5 | 355 3.2 |

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Tacubaya IP 22 46 22 360 3.2

Inscrit à Léon.

XXVIII.- 13 Janvier

Mer Egée, au large de l'Ile de Rhodes.

36° 8 N ; 27° 5 E ; H = 22<sup>h</sup>.46<sup>mn</sup>05<sup>s</sup>. (Athènes)

|               |        |                         |      |            |     |     |
|---------------|--------|-------------------------|------|------------|-----|-----|
| Rhodes        | eiPg   | 22 46 20.6 <sup>D</sup> | iSg  | 22 46 30.3 | 80  | 1.6 |
| Cine          | iPg    | 23                      |      |            |     |     |
| Paraskevi     | eiPn   | 51 <sup>D</sup>         | iSn  | 47 23.5    | 295 | 2.7 |
| Vamos         | eiPn   | 56 <sup>D</sup>         | eiSn | 33.7       | 340 | 3.1 |
| Athènes       | ePb    | 47 03                   | eiSg | 55         | 365 | 3.3 |
| Istanbul Kand | ei(Pn) | 27.1                    |      |            |     |     |

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Ile Loyauté

20° 5 S ; 168° 9 E ; H = 23<sup>h</sup>17<sup>mn</sup>51<sup>s</sup>. (Nouméa)

M. = 3.5 (Nouméa)

|            |       |                         |    |          |  |  |
|------------|-------|-------------------------|----|----------|--|--|
| Ouanaham   | iP    | 23 18 15.4 <sup>D</sup> | iS | 23 18 34 |  |  |
| Port Vila  | eiP   | 32.5                    | iS | 19 09.5  |  |  |
| Nouméa     | iP    | 38.7                    | iS | 10       |  |  |
| Koumac     | iP    | 55.7 <sup>C</sup>       | iS | 46       |  |  |
| Luganville | ei(P) | 19 15.4                 | iS | 20 20    |  |  |

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Près de la cote Sud du Mexique

16° 12' N ; 99° 47' W ; H = 23<sup>h</sup>.19<sup>mn</sup>13<sup>s</sup>. (Tacubaya)

|                   |    |          |    |          |     |     |
|-------------------|----|----------|----|----------|-----|-----|
| Vista Hermosa     | iP | 23 20 01 | iS | 23 20 39 | 340 | 3.1 |
| Presa Infiernillo | iP | 03       |    |          | 336 | 3.0 |
| Nat. Univ. Mexico | iP | 04       | iS | 43       | 350 | 3.2 |
| Tacubaya          | iP | 06       |    |          | 350 | 3.2 |

Inscrit à Léon.

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I. 14 Janvier  
Iles Santa Cruz

12°3S, 165°7E h = 48km

12°7S, 166°0E

H = 02h45m05.9S (CGS)

H = 02h45m10 (Nouméa)

M = 5.4 (Honiara), 4.6 (CGS),  
Forest).

4.4 (Nouméa), 3.8 (Tonto)

|                 |      |              |      |            |       |      |
|-----------------|------|--------------|------|------------|-------|------|
| Luganville      | iP   | 02 45 57.7D  | iS   | 02 46 32.5 | 380   | 3.4  |
| Lonorore        | e P  | 46 10.8      | iS   | 58         | 470   | 4.2  |
| Port Vila       | eiP  | 34.1         |      |            | 655   | 5.9  |
| Honiara         | eP   | 38           | eS   | 47 49.1    | 710   | 6.4  |
| Koumac          | eP   | 47 05.9 C    | iS   | 48 37.5    | 920   | 8.3  |
| Nouméa          | eiP  | 27 C         | iS   | 49 13.5    | 1100  | 9.9  |
| Port Moresby    | eP   | 49 21        | eS   | 52 54      | 2055  | 18.5 |
| Brisbane        | iP   | 30.9         | e    | 55 23      | 2145  | 19.3 |
| Charters Towers | iP   | 40.7         |      |            | 2245  | 20.2 |
| South P de      | eP   | 56 57.1      |      |            | 8635  | 77.7 |
| Tonto Forest    | eP   | 58 08.2      |      |            | 10245 | 91.2 |
| Bangui          | ePKP | 03 04 40.6 C | iPKP | 03 04 53.6 |       |      |

Inscrit à Uinta Basin, Wichi ta M.

II. 14 Janvier  
Haute Silésie

|          |   |            |   |          |  |  |
|----------|---|------------|---|----------|--|--|
| Zabrze   | e | 03 21 25.7 |   |          |  |  |
| Eytom    | e | 27.1       |   |          |  |  |
| Dabrova  | e | 32.4       |   |          |  |  |
| Rybnik   | e | 50         | e | 03 22 07 |  |  |
| Raciborz | e | 54         |   |          |  |  |

III. 14 Janvier  
Mer de Banda

7°7S, 117°4E h = 283km

H = 03h45m06.5S (CGS)

M = 5.1 (CGS, Nairobi)

|                 |       |            |    |            |       |       |
|-----------------|-------|------------|----|------------|-------|-------|
| Darwin          | eP    | 03 48 16.0 | eS | 03 50 39.0 | 1555  | 14.0  |
| Meekatharra     | iP    | 49 06.9D   |    |            |       |       |
| Warramunga      | eP    | 23         | e  | 52 50.5    | 2280  | 20.5  |
| Kalgoorlie      | iP    | 49.0 C     |    |            |       |       |
| Mundaring       | iP    | 57.5 D     |    |            | 2680  | 24.1  |
| Charters Towers | iP    | 50 56      |    |            | 3400  | 30.6  |
| Brisbane        | iP    | 52 07      |    |            | 4310  | 38.8  |
| Nairobi         | iP    | 56 50.1 D  |    |            | 8945  | 80.5  |
| South p de      | eP    | 57.4       |    |            | 9145  | 82.3  |
| Changalane      | iP    | 58.6       |    |            | 9145  | 82.3  |
| Broken Hill     | ei(P) | 57 05 C/D  |    |            | 9370  | 87.0  |
| Karoi           | eiP   | 15 C/D     |    |            | 9510  | 85.6  |
| Bilawayo        | eiP   | 18 C/D     |    |            | 9580  | 86.2  |
| Blue M.         | ePKP  | 04 03 23.7 |    |            | 13345 | 120.1 |
| Lamto           | PKP   | 30.4       |    |            | 13645 | 122.0 |
| Bireka          | PKP   | 30.5       |    |            | 13655 | 122.9 |
| Dugway          | PKP   | 34.8       |    |            | 13880 | 124.9 |
| Uinta Basin     | PKP   | 36.6       |    |            | 14120 | 127.1 |



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|               |      |            |  |       |       |
|---------------|------|------------|--|-------|-------|
| Tonto Forest  | PKP  | 04 03 42.6 |  | 14230 | 128.1 |
| Cumberland pl | PKP  | 04 11.7    |  | 16130 | 145.2 |
| La Paz        | ePKP | 27.3       |  |       |       |
| Cochabamba    | ePKP | 28.2       |  |       | 155.5 |
| Penas         | ePKP | 30.0       |  | 17280 | 155.5 |

IV. 14 Janvier  
Californie centrale

35° 4N, 117° 9W h = 16km H = 04h32mn52.8S (CGS)

Ressenti à Cantil (117° 55.6 W, 35° 23.0 N).

M = 2 3/4 - 3 (Pasadena)

|                 |     |            |     |            |     |     |
|-----------------|-----|------------|-----|------------|-----|-----|
| China Lake      | 1P  | 04 33 02.6 | 1S  | 04 33 09.6 | 55  | 0.5 |
| Isabella        | 1P  | 03.3       | 1S  | 09.7       | 55  | 0.5 |
| Goldstone       | 1P  | 09.2       | 1S  | 22.3       | 100 | 0.9 |
| Fort Tejon      | 1P  | 09.6       |     |            | 100 | 0.9 |
| Mt Wilson       | 1P  | 14.4       |     |            | 130 | 1.2 |
| Pasadena        | 1P  | 15.0       |     |            | 130 | 1.2 |
| Riverside       | 1P  | 18.0       | 1S  | 36.6       | 170 | 1.5 |
| Tinemaha        | 1P  | 25.9       | 1S  | 48.6       | 190 | 1.7 |
| Santa Ynes Peak | 1P  | 27.0       |     |            | 210 | 1.9 |
| Priest          | P   | 33.0C      |     |            | 270 | 2.4 |
| San Luis Dam    | eP  | 46.0       | eLr | 34 31.9    | 355 | 3.2 |
| Jamestown       | P   | 47.5D      |     |            | 370 | 3.3 |
| Mt Hamilton     | P   | 50.7       |     |            | 400 | 3.6 |
| Eureka          | eP  | 34 02.8    |     |            | 490 | 4.4 |
| Tonto Forest    | ePn | 15.3       | eLr | 35 46.5    | 620 | 5.6 |

V. 14 Janvier  
Nouvelles Hébrides (île Tanna)

H = 04h33mn01s M = 3.4 (Nouméa)

|           |     |             |      |            |  |  |
|-----------|-----|-------------|------|------------|--|--|
| Ouanaham  | eP  | 04 33 23.3C | 1S   | 04 33 40.5 |  |  |
| Port Vila | e1P | 34.2        |      |            |  |  |
| Nouméa    | 1P  | 46.1C       | 1(S) | 34 19.5    |  |  |

inscrit à Koumac.

V. 14 Janvier  
Californie centrale

35° 4N, 117° 9W h = 16km H = 04h34mn10.7S (CGS)

35° 23.0N, 117° 53.4W (Pasadena)

M = 2 3/4 (Pasadena)

|                 |    |            |    |            |     |     |
|-----------------|----|------------|----|------------|-----|-----|
| China Lake      | 1P | 04 34 20.3 | 1S | 04 34 26.6 | 55  | 0.5 |
| Isabella        | 1P | 20.8       | 1S | 27.2       | 55  | 0.5 |
| Goldstone       | 1P | 26.0       |    |            | 100 | 0.9 |
| Fort Tejon      | 1P | 27.0       |    |            | 110 | 1.0 |
| Pasadena        | 1P | 33.2       |    |            | 145 | 1.3 |
| Riverside       | 1P | 36.5       | 1S | 54.1       | 170 | 1.5 |
| Tinemaha        | 1P | 42.4       | 1S | 35 05.7    | 190 | 1.7 |
| Santa Ynes Peak | 1P | 44.7       |    |            | 210 | 1.9 |
| Oroville        | eP | 35 29.0    |    |            | 370 | 3.1 |

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VI. 14 janvier  
Région sud de la Bolivie

20°5S, 67°5W h = 170km H = 04<sup>h</sup>57<sup>m</sup>10<sup>s</sup> (CGS)

M = 5.3 (Edmonton), 4.9 (Cumberland Pl), 4.7 (Blue M, Wichita M), 4.6 (CGS), 4.5 (Albuquerque, Uinta Basin), 4.3 (Tonto Forest, Dugway, Eureka, Bozeman SSS).

|               |    |       |        |      |       |      |      |      |
|---------------|----|-------|--------|------|-------|------|------|------|
| Cochabamba    | eP | 04 58 | 04.2C  |      |       |      |      |      |
| La Paz        | iP |       | 12.2C  | iS   | 04 58 | 50.0 | 445  | 4.0  |
| Penas         | iP |       | 16.0   | iS   |       | 58.0 | 460  | 4.3  |
| Antofagasta   | iP |       | 43.7D  | iS   | 59    | 42.0 |      |      |
| Cumberland Pl | eP | 05 06 | 44.3   |      |       |      | 6490 | 58.4 |
| Wichita M.    | eP | 07    | 13.0   | ePcP | 05 07 | 54.8 | 6930 | 62.4 |
| Albuquerque   | iP |       | 41.5   | e    | 10    | 10.0 | 730  | 66.4 |
| Tucson        | eP |       | 45.0   |      |       |      | 7430 | 66.9 |
| Lamto         | P  |       | 45.4   |      |       |      | 7420 | 66.8 |
| Tonto Forest  | iP |       | 56.4   | ePcP | 08 21 | 9    | 7620 | 68.6 |
| Uinta Basin   | eP | 08    | 16.9   |      |       |      | 8010 | 72.1 |
| Pasadena      | iP |       | 21.0   |      |       |      | 8080 | 72.7 |
| Dugway        | eP |       | 26.7   |      |       |      | 8190 | 73.7 |
| Eureka        | iP |       | 34.2   |      |       |      | 8320 | 74.9 |
| Priest        | P  |       | 33.4 D |      |       |      | 8390 | 75.5 |
| Jamestown     | P  |       | 43.4 D |      |       |      | 8500 | 76.5 |
| Bozeman SSS   | eP |       | 45.2   |      |       |      | 8555 | 77.0 |
| Mt Hamilton   | eP |       | 46.4D  |      |       |      | 8545 | 76.9 |
| Mineral       | P  |       | 55.1D  |      |       |      | 8745 | 77.7 |
| Blue M        | eP |       | 58.4   |      |       |      | 8810 | 79.3 |
| Hungry Horse  | eP | 0 90  | 2.4    |      |       |      | 8910 | 80.2 |
| Newport       | eP |       | 09.0   |      |       |      | 9070 | 81.6 |
| Nordman       | eP |       | 10.0   |      |       |      | 9080 | 81.7 |
| Edmonton      | iP |       | 18.0   |      |       |      | 9270 | 83.4 |
| Frobisher     | eP |       | 19.0   |      |       |      | 9330 | 84.0 |
| Tamanrasset   | eP |       | 20.0   |      |       |      | 9245 | 83.2 |

Inscrit à Warramunga.

VII. 14 janvier  
Région des îles Tonga

23°6S, 175°2W h = 33km H = 05<sup>h</sup>55<sup>m</sup>53<sup>s</sup> (CGS)

M = 5.1 (Port Moresby), 4.8 (Wichita M), 4.5 (CGS, Uinta Basin), 4.3 (Eureka), 4.2 (Blue M), 4.1 (Tonto Forest).

|                 |    |       |       |    |       |      |      |      |
|-----------------|----|-------|-------|----|-------|------|------|------|
| Afiama'u        | eP | 05 58 | 09    | eS | 05 59 | 45   | 1120 | 10.1 |
| Charters Towers | eP | 06 02 | 51    |    |       |      | 3930 | 35.9 |
| Port Moresby    | eP | 03    | 15    |    |       |      | 4290 | 36.6 |
| Warramunga      | eP | 04    | 22.5  |    |       |      | 5200 | 46.8 |
| Mundaring       | eP | 06    | 04.8D |    |       |      |      |      |
| South Pole      | eP |       | 42.0  |    |       |      | 7400 | 66.6 |
| Tonto Forest    | eP | 08    | 18.3  |    |       |      | 9290 | 83.6 |
| Eureka          | iP |       | 19.0  |    |       |      | 9290 | 83.6 |
| Blue M.         | eP |       | 32.4  | e  | 06 08 | 43.0 | 9570 | 86.1 |
| Albuquerque     | eP |       | 37.0  | e  |       | 49.0 | 9700 | 87.3 |

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|             |     |            |   |            |       |       |
|-------------|-----|------------|---|------------|-------|-------|
| Uinta Basin | eP  | 06 06 42.6 | e | 06 08 53.0 | 9790  | 88.1  |
| Wichita M.  | eP  | 09 05.2    |   |            | 10320 | 92.9  |
| Collm       | PKP | 15 47.0    |   |            | 16845 | 151.6 |

VIII. 14 Janvier  
Sud des Iles Fidji

|                 |                       |   |
|-----------------|-----------------------|---|
| 22° 5S, 179° 6W | h = 610 <sup>km</sup> | H = 08h01 <sup>mn</sup> 27.8 <sup>s</sup> (CGS) |
| 22° 5S, 179° 0W | h = 428 <sup>km</sup> | H = 08h01 <sup>mn</sup> 10 <sup>s</sup> (URSS)  |

M = 6.0 (Port Moresby), 5.8 (South Pole, Uinta Basin), 5.5 (Tucson, Dugway), 5.4 (Berkeley, Albuquerque, College), 5.3 (Oroville, Bozeman SSS), 5.2 (CGS, Wichita M, Penas), 5.1 (Tonto Forest, Longmire), 4.9 (Golden), 4.6 (Blue M, Eureka), 4.4 (Mt Tsukuba).

|                  |     |            |     |          |      |      |
|------------------|-----|------------|-----|----------|------|------|
| Raoul Island     | IP  | 08 03 15.5 |     |          | 770  | 6.9  |
| Afiamau          | eP  | 55         | eS  | 08 05 54 | 1270 | 11.4 |
| Karapiro         | IP  | 04 06      | e   | 07 35    |      |      |
| Ouanaham         | IP  | 10.1C      | iS  | 06 20    |      |      |
| Port Vila        | IP  | 10.5D      | iS  |          | 28.5 |      |
| Nouméa           | IP  | 16.3C      | iS  | 41       |      |      |
| Lomtoro          | IP  | 22.5D      | iS  | 46.5     |      |      |
| Luganville       | IP  | 27.3C      |     |          |      |      |
| Koumac           | IP  | 37.8C      | iS  | 07 14    |      |      |
| Rarotonga        | eP  | 05 01      |     |          |      |      |
| Wellington       | IP  | 15.7D      | eL  | 12 10    | 1245 | 19.3 |
| Honiara          | eP  | 51         | e   | 08 34    | 2610 | 23.5 |
| Monowai          | IP  | 06 11.0    |     |          |      |      |
| Brisbane         | IP  | 12.5       | eS  | 09 59    | 2830 | 25.5 |
| Papeete (Orston) | IP  | 36.8       |     |          | 3180 | 28.6 |
| Papeete          | IP  | 37.7       |     |          | 3180 | 28.6 |
| Papenoo          | IP  | 38.9       |     |          | 3200 | 28.8 |
| Canberra         | IP  | 53.1D      | iS  | 11 12    |      |      |
| Esa'Ala          | eIP | 58.5D      |     |          |      |      |
| Tiputa           | IP  | 59.6       |     |          | 3470 | 31.2 |
| Charters Towers  | IP  | 07 06.8    | iS  | 30       | 3530 | 31.8 |
| Toolangi         | IP  | 21.1D      | iS  | 12 01.0  | 3720 | 33.5 |
| Port Moresby     | IP  | 27.8D      | eS  | 15       | 3820 | 34.4 |
| Adelaide         | eP  | 57         | iPP | 09 42    | 4255 | 38.3 |
| Warramunga       | eP  | 08 05.5D   | e   | 14 15    |      |      |
| Hawai Volc. Obs. | eP  | 09 15.0    |     |          | 5330 | 48.0 |
| Honolulu         | eP  | 17.0       |     |          | 5380 | 48.4 |
| Kipapa           | eP  | 18.0       |     |          | 5390 | 48.5 |
| Guam             | eP  | 28.5       |     |          | 5545 | 49.9 |
| Terre Adélie     | IP  | 37.0       |     |          | 5670 | 51.0 |
| Kalgornie        | IP  | 48.4C      |     |          |      |      |
| Meekatharra      | IP  | 10 10.4D   |     |          |      |      |
| Scott Base       | P   | 12.0       |     |          | 6200 | 55.8 |
| Mundaring        | IP  | 19.4D      |     |          | 634  | 57.1 |
| Davao            | eP  | 44.0       |     |          | 6790 | 61.1 |
| South pole       | IP  | 11 28.0    | ePP | 13 29.1  | 7510 | 67.6 |
| Mirny            | IP  | 32.5       |     |          | 7610 | 68.5 |
| Kyosumi          | eP  | 35.4       |     |          | 7655 | 68.9 |
| Mt Tsukuba       | eP  | 39.3       |     |          | 7745 | 69.7 |

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|                   |     |            |  |      |       |      |            |
|-------------------|-----|------------|--|------|-------|------|------------|
| Baguio            | e,P | 08 11 40.0 |  |      |       | 7790 | 70.1       |
| Dodaira           | iP  | 40.5       |  |      |       | 7780 | 70.0       |
| Matsushiro        | iP  | 46         |  |      |       |      |            |
| Oishiyama         | eP  | 46.5       |  |      |       | 7855 | 70.7       |
| Shiraki           | eP  | 56.0       |  |      |       | 8070 | 72.6       |
| Adak              | eP  | 12 03.0    |  |      |       | 8230 | 74.1       |
| Youjno Sakhalinsk | eP  | 22         |  |      |       |      |            |
| Holy Cross        | eP  | 40.0       |  |      |       | 8945 | 80.5       |
| Stone Canyon      | eP  | 40.3       |  | e    | 08 14 | 48.0 | 8955 80.6  |
| Berkeley          | eP  | 40.6       |  | e    |       | 48.8 | 8970 80.7  |
| Priest            | eP  | 40.6C      |  | e    |       | 48.8 | 8970 80.7  |
| Mt Hamilton       | eP  | 41.0C      |  | e    |       | 49.2 | 8980 80.8  |
| Mount Diablo      | eP  | 41.2       |  | e    |       | 49.5 | 8990 80.9  |
| San Luis Dam      | iP  | 41.5C      |  | i    |       | 50.0 | 8990 80.9  |
| Pasadena          | iP  | 42.0       |  | iS   | 22    | 11.0 | 9020 81.2  |
| Ukiah             | eP  | 42.5       |  |      |       |      | 8990 80.9  |
| Jamestown         | eP  | 46.0C      |  | e    | 14    | 55.1 | 9100 81.9  |
| Oroville          | iP  | 47.4       |  | i    |       | 56.3 | 9130 82.2  |
| Mineral           | eP  | 49.6C      |  |      |       |      |            |
| Big M.            | iP  | 55.2       |  |      |       |      | 9330 84.0  |
| Spa rrevohn       | eP  | 13 03.2    |  |      |       |      | 9510 85.6  |
| Eureka            | iP  | 04.2       |  | i    | 15    | 13.8 | 9510 85.6  |
| Tucson            | iP  | 04.4C      |  | i    |       | 13.0 | 9490 85.4  |
| Presa Infiernillo | iP  | 07.0       |  |      |       |      |            |
| Tumwater          | iP  | 07.2       |  |      |       |      | 9555 86.0  |
| Tonto Forest      | iP  | 07.2       |  | eS   | 22    | 58.1 | 9570 86.1  |
| Novo Lazarevskaya | eP  | 08.5       |  | e    | 15    | 13.5 |            |
| Longmire          | iP  | 08.7       |  |      |       |      | 9600 86.4  |
| Palmer            | eP  | 11.0       |  |      |       |      | 9700 87.3  |
| Glen Canyon       | iP  | 12.5       |  | S    | 23    | 11.5 | 9690 87.2  |
| Blue M.           | eP  | 14.4       |  | e    | 15    | 24.0 | 9755 87.8  |
| Mt Sheep Creek    | iP  | 14.7       |  |      |       |      | 9770 87.9  |
| Dugway            | eP  | 15.7       |  |      |       |      | 9780 88.0  |
| Léon              | iP  | 16         |  |      |       |      |            |
| San Luis Dam      | eP  | 20.0       |  | e    |       | 28.5 | 9890 89.0  |
| Nat. Uni. Mexico  | iP  | 21         |  | eSKS | 22    | 58   |            |
| Black Rapids      | eP  | 22.7       |  |      |       |      | 9970 89.7  |
| Newport           | eP  | 23.0       |  | e    | 15    | 35.0 | 9990 89.9  |
| Nordman           | eP  | 24.0       |  | e    |       | 37.0 | 10020 90.2 |
| Tanana            | eP  | 24.2       |  |      |       |      | 10000 90.0 |
| Albuquerque       | iP  | 24.4C      |  | e    |       | 34.4 | 9980 89.8  |
| College           | eP  | 26.0       |  | e    |       | 38.0 | 10055 90.5 |
| Yunta Basin       | eP  | 26.3       |  | eS   | 23    | 36   | 10030 90.3 |
| Pedro Dome        | iP  | 26.5       |  |      |       |      | 10080 90.7 |
| Gilmore Creek     | eP  | 26.5       |  |      |       |      | 10080 90.7 |
| Vista Hermosa     | iP  | 26.5       |  |      |       |      |            |
| Butte             | eP  | 30.2       |  | e    | 15    | 42.4 | 10145 91.3 |
| Hungry Horse      | eP  | 31.4       |  | ed   |       | 42.1 | 10190 91.7 |
| Bozeman SSS       | eP  | 32.4       |  | e    |       | 42.5 | 10180 91.6 |
| Lubbock           | eP  | 37.0       |  | e    | 17    | 29.0 | 10290 92.6 |
| Golden            | eP  | 38.0       |  |      |       |      | 10310 92.8 |
| Yakutsk           | eP  | 39         |  |      |       |      |            |

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|                  |        |       |       |         |          |        |       |
|------------------|--------|-------|-------|---------|----------|--------|-------|
| Edmonton         | eP     | 08 13 | 45.0  |         |          | 10510  | 94.6  |
| Wichita M.       | eP     |       | 49.2  | eS      | 08 24 22 | 10620  | 95.6  |
| Penas            | P      |       | 22.2  |         |          | 11380  | 102.4 |
| La paz           | eP     | 14    | 25.0  |         |          | 11400  | 102.6 |
| Mould Bay        | PKP    | 18    | 42.0  |         |          | 11680  | 105.1 |
| North Pole       | PKP    |       | 42.2  |         |          | 11680  | 105.1 |
| Resdute          | PKP    |       | 51.5  |         |          | 12230  | 110.1 |
| Cumberland Pl    | (PKP)  | 19    | 04.3  |         |          | 11770  | 105.9 |
| Frobisher        | PKP    |       | 09.0  |         |          | 13255  | 119.  |
| OLlu             | e(PKP) |       | 28    | 1 SKP   | 22 13.5  |        |       |
| Lanéa            | (PKP)  |       | 29    | 1 SKP   | 19.0     |        |       |
| Kevo             | 1PKP   |       | 30.8  | eSS     | 38 21    | 14455  | 130.1 |
| Sodankylae       | ePKP   |       | 31    | 1 SKP   | 22 05.7  |        |       |
| Bulawayo         | ePKP 1 |       | 31    | 1PPKP 1 | 21 58    |        |       |
| Kajaani          | 1PKP   |       | 33.5  | 1 SKP   | 22 13.5  | 14970  | 134.7 |
| Kiruna           | ePKP   |       | 35    | 1 SKP   | 08.0     |        |       |
| Karoi            | ePKP   |       | 35    | ePPKP   | 05       |        |       |
| Nurmijaervi      | ePKP   |       | 38    | 1 SKP   | 24.8     | 15380  | 138.4 |
| Nairobi          | PKP    |       | 37.0  |         |          | 15255  | 137.3 |
| Skalstugan       | 1PKP   |       | 38.0  | 1 SKP   | 24.9     |        |       |
| Uppsala          | 1PKP   |       | 43.2  | 1 SKP   | 30.9     | 15630  | 140.7 |
| Uddeholm         | 1PKP   |       | 45.0  | 1 SKP   | 32.7     |        |       |
| Lillehamm cr     | 1PKP   |       | 45.4  |         |          | 15645  | 140.8 |
| Sa da Bandeira   | PKP    |       | 46.7  |         |          | 15620  | 140.6 |
| Kongsberg        | 1PKP   |       | 49.3  |         |          | 15810  | 142.3 |
| Goteborg         | 1PKP   |       | 54.0  |         |          |        |       |
| Karlskrona       | 1PKP   |       | 56.6  |         |          |        |       |
| Collm            | 1PKIKP | 20    | 06    | 1PKP 1  | 20 10.7  | 16820  | 149.6 |
| Moxa             | 1PKIKP |       | 06.5  | ePKP 2  | 21.5     | 16730  | 150.6 |
| Krakow           | ePKP   |       | 08    | ePPKP   | 22 29    |        |       |
| Durham           | 1PKP   |       | 08    |         |          |        |       |
| Kasperské Hory   | eIPIP  |       | 08.5  |         |          | 16820  | 151.4 |
| Oujgorod         | ePKP 1 |       | 09C   |         |          |        |       |
| Niedzica         | eI PKP |       | 09D   | eIDPKP  | 31       |        |       |
| Furstenfeldbruck | PKP 1  |       | 10    | 1PKP 2  | 20 33    |        |       |
| Stuttgart        | ePKP 1 |       | 10.1  | i       | 18.1     | 16980  | 152.8 |
| Caracas          | ePP    |       | 12.0C | i       | 24 52    |        |       |
| Pruhonice        | eI PKP |       | 12    |         |          | 16710  | 150.4 |
| Sommée Lor mes   | ePKP   |       | 14.0  |         |          | 17230  | 155.1 |
| Les Buteaux      | ePKP   |       | 14.4  |         |          |        |       |
| Bensberg         | ePKP   |       | 14.5  | e       | 23 36    | 16790  | 151.1 |
| Gorron           | ePKP   |       | 16.2  |         |          | 17130  | 154.2 |
| Toulx Ste Croix  | ePKP   |       | 16.3  |         |          |        |       |
| Erlangen         | ePKP 1 |       | 16.7D | ePPKP 1 | 22 38.4  |        |       |
| Folin t're       | ePKP   |       | 20.6  |         |          | 170 00 | 153.8 |
| Haudompré        | ePKP   |       | 21.3  |         |          |        |       |
| Champ dupeu      | ePKP   |       | 21.8  |         |          |        |       |
| St Sauveur       | ePKP   |       | 22.2  |         |          | 17110  | 154.0 |
| Le pertre        | ePKP   |       | 23.4  |         |          |        |       |
| Lamto            | PKP    |       | 24.0  |         |          | 18110  | 163.0 |
| Ifrane           | PKP    |       | 28    | P       | 21 40    | 18670  | 168.0 |
| La Mourre        | ePKP   |       | 37.5  |         |          |        |       |
| Toledo           | 1PKP   | 21    | 14.0  | e       | 23 24.5  |        |       |

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Inscrit à Trieste, Tamanrasset, Bogota, Cine, Sverdlovsk, Apatity, Windhoek.

IX. 14 janvier  
Fossé rhénan au voisinage de Fessenheim (Haut-Rhin)

48°0 N ; 7°5 E ; H = 09h.28<sup>mn</sup>27s. (BCI<sup>5</sup>)

|              |     |       |      |     |       |      |
|--------------|-----|-------|------|-----|-------|------|
| Welschbruch  | 1Pg | 09 28 | 33.9 | 1Sg | 09 28 | 33.2 |
| Champ du Feu | 1Pg |       | 33.9 |     |       |      |
| Haudompré    | 1Pn |       | 40.7 |     |       |      |
| Karlsruhe    | 1P  |       | 41.5 | Sg  |       | 51.5 |
| Bühlernöhe   | 1Pg |       | 41.5 | Sg  |       | 51.5 |

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Mozambique

23°6 S ; 33°0 E ; h = 33<sup>km</sup> ; H = 10h.36<sup>mn</sup>37s. (CGS)  
23°5 S ; 33°2 E ; H = 10h.36<sup>mn</sup>34s. (Bulawayo)

M. = 5.9(Windhoek) ; 5.4(Bangui) ; 5.3(CGS) ; 5.2(Penas) ; 5.0(Bulawayo) ;  
4.5(Nairobi) ;

|                  |     |                      |                   |      |                    |       |      |
|------------------|-----|----------------------|-------------------|------|--------------------|-------|------|
| Changalane       | 1Pn | 10 37                | 19.4 <sup>D</sup> |      |                    | 310   | 2.8  |
| Bulawayo         | 1Pn |                      | 55                | eSg  | 10 39(20)          |       |      |
| Pietermaritzburg | 1Pn | 38 09                |                   | 1Sn  | 20                 |       |      |
| Karoi            | 1Pn |                      | 23                | eSg  | 40(30)             |       |      |
| Kimberley        | 1Pn |                      | 44                | 1Sn  | 19                 |       |      |
| Grahamstown      | 1Pn | 39 17.5              |                   | 1Sg  | 42 30.5            |       |      |
| Windhoek         | 1Pn | 40 03.5              |                   | 1Sg  | 44 12.9            | 1630  | 14.7 |
| Sa da Bandeira   | 1P  | 41 18.4              |                   |      |                    | 2255  | 20.3 |
| Nairobi          | eP  |                      | 35.5              |      |                    | 2500  | 22.5 |
| Bangui           | 1P  | 42 54.7 <sup>D</sup> |                   | 1S   | 48 09.7            | 3470  | 31.2 |
| Lamto            | P   | 45 11.0              |                   |      |                    | 5280  | 47.5 |
| Tamanrasset      | eP  |                      | 55                | 1    | 46 03 <sup>D</sup> |       |      |
| Quetta           | eP  | 47 00.0 <sup>C</sup> |                   |      |                    | 6955  | 62.6 |
| South Pole       | dP  |                      | 24.6              |      |                    | 7390  | 66.5 |
| Niedzica         | e1P | 48 16.4 <sup>C</sup> |                   |      |                    |       |      |
| Sommée Lormes    | eP  |                      | 26.7              |      |                    | 8370  | 75.3 |
| Haudompré        | eP  |                      | 26.9              |      |                    |       |      |
| Champ du Feu     | eP  |                      | 27.2              |      |                    |       |      |
| Erlangen         | eP  |                      | 28.5 <sup>D</sup> |      |                    |       |      |
| Moxa             | eP  |                      | 33                |      |                    | 8480  | 76.3 |
| Nurmi jaerwi     | eP  | 49 05                |                   |      |                    |       |      |
| Uppsala          | 1P  |                      | 05.3              |      |                    | 9345  | 84.1 |
| Uddeholm         | 1P  |                      | 17.1              |      |                    |       |      |
| Kajaani          | 1P  |                      | 21.6              |      |                    |       |      |
| Uméa             | 1P  |                      | 22.8              |      |                    |       |      |
| Oulu             | eP  |                      | 25                |      |                    |       |      |
| La Paz           | P   |                      | 52.0              |      |                    | 10370 | 93.3 |
| Penas            | P   |                      | 54.4              | eSKS | 11 00 23           | 10410 | 93.7 |

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|              |                  |                   |   |            |       |       |
|--------------|------------------|-------------------|---|------------|-------|-------|
| Wichita M    | PKP              | 10 55 57.1        |   |            | 15190 | 136.7 |
| Hungry Horse | PKP              | 56 08.9           | e | 10 56 17.6 | 10010 | 144.1 |
| Butte        | PKP              | 10.1              | e | 18.7       | 16045 | 144.4 |
| Uinta Basin  | PKP <sub>2</sub> | 10.3              | e | 18.0       | 16055 | 144.5 |
| Nor dman     | PKP              | 13.0              |   |            | 16180 | 145.6 |
| Bozeman SSS  | PKP              | 13.5              |   |            | 16000 | 144.0 |
| Newport      | PKP              | 14.0              |   |            | 16210 | 145.9 |
| Dugway       | PKP              | 17.4              | e | 26.3       | 16320 | 146.9 |
| Tucson       | PKP              | 18.7              | e | 27.5       | 16330 | 147.0 |
| Tonto Forest | PKP <sub>2</sub> | 18.9              |   |            | 16345 | 147.1 |
| Blue M.      | PKP              | 20.0              |   |            | 16430 | 147.9 |
| Eureka       | PKP              | 21.0              |   |            | 16600 | 149.4 |
| Longmire     | PKP              | 24.2 <sup>C</sup> |   |            | 16590 | 149.3 |
| Glen Canyon  | (PKP)            | 29.0              |   |            | 16320 | 146.9 |
| Goldstone    | PKP              | 29                |   | 38         | 16820 | 151.4 |
| San Luis Dam | PKP <sub>2</sub> | 50.0              |   |            | 17120 | 154.1 |

Inscrit à Hermanus.

XI. - 14 Janvier

Sid de Panama

7°2 N ; 82°3 W ; h = 9km ; H = 11h.23<sup>min</sup>05.0<sup>s</sup>. (CGS)

M. = 5.1(Golden); 5.0(Tonto Forest - Albuquerque - North Pole);  
 4.8(Longmire - Bozeman SSS); 4.7(Blue M. - CGS - Eureka - Wichita M.);  
 4.6(Penas - Cumberland Pl.); 4.4(Caracas - Uinta Basin); 4.3(Dugway).

|                   |      |                      |    |            |      |      |
|-------------------|------|----------------------|----|------------|------|------|
| Balboa Heights    | 1P   | 11 23 57.6           | 1S | 11 25 26.8 | 370  | 3.3  |
| Quito             | e.P) | 24 44                | S  | 26 47      | 910  | 8.2  |
| Bogota            | eP   | 25 16.0              | 1S | 27 05.0    | 955  | 8.6  |
| Caracas           | eP   | 26 48.5              | eS | 29 36      | 1730 | 15.6 |
| Vista Hermosa     | 1P   | 27 09.5              |    |            |      |      |
| Nat.Univ.Mexico   | eP   | 47                   | e  | 32 22      |      |      |
| Trinidad          | eP   | 49.6                 |    |            | 2330 | 21.0 |
| Presa Infiernillo | eP   | 28 22                |    |            |      |      |
| Penas             | P    | 50.8                 |    |            | 3000 | 27.0 |
| La Paz            | P    | 54.5                 | eS | 33 40      | 3045 | 27.4 |
| Cumberland Pl.    | eP   | 29 02.6              |    |            | 3170 | 28.5 |
| Wichita M.        | eP   | 24.4                 | eS | 34 41      | 3480 | 31.3 |
| Albuquerque       | 1P   | 30 04.1 <sup>D</sup> |    |            | 3945 | 35.5 |
| Tucson            | eP   | 13.0                 |    |            | 4045 | 36.4 |
| Tonto Forest      | eP   | 26.6                 | eS | 36 27      | 4220 | 38.0 |
| Golden            | eP   | 28.5                 | eL | 42 20.0    | 4280 | 38.5 |
| Glen Canyon       | eP   | 42.6 <sup>C</sup>    |    |            | 4430 | 39.9 |
| Uinta Basin       | eP   | 48.7                 | eS | 37 11      | 4555 | 41.0 |
| Pasadena          | eP   | 31 04.0              |    |            | 4730 | 42.6 |
| Dugway            | eP   | 05.0                 |    |            | 4745 | 42.7 |
| Eureka            | 1P   | 16.8                 |    |            | 4900 | 44.1 |
| Priest            | eP   | 27.6 <sup>C</sup>    |    |            | 5045 | 45.4 |
| Bozeman SSS       | eP   | 29.6                 |    |            | 5100 | 45.9 |

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|               |      |                         |   |            |      |      |
|---------------|------|-------------------------|---|------------|------|------|
| Jamestown     | eP   | 11 31 34.0 <sup>C</sup> | e | 11 31 42.7 | 5120 | 46.1 |
| Mt. Hamilton  | eP   | 34.6 <sup>C</sup>       |   |            | 5180 | 46.6 |
| Oroville      | 1P   | 46.1                    |   |            | 5300 | 47.7 |
| Blue M.       | eP   | 47.6                    | e | 58.9       | 5370 | 48.3 |
| Mineral       | eP   | 48.3 <sup>D</sup>       |   |            |      |      |
| Hungy Horse   | eP   | 55.3                    |   |            | 5455 | 49.1 |
| Newport       | eP   | 32 05.0                 |   |            | 5610 | 50.5 |
| Nordman       | eP   | 06.0                    |   |            | 5620 | 50.6 |
| Longmire      | 1P   | 17.1                    |   |            | 5770 | 51.9 |
| Edmonton      | eP   | 18.0                    |   |            | 5820 | 52.4 |
| Resolute      | eP   | 34 03.5                 |   |            | 7545 | 67.9 |
| Mould Bay     | eP   | 30.0                    |   |            | 8000 | 72.0 |
| North Pole    | eP   | 30.0                    |   |            | 8000 | 72.0 |
| Gilmore Creek | eP   | 33.0                    |   |            | 8130 | 73.2 |
| Barrow        | eP   | 35 06.4                 |   |            | 8700 | 78.3 |
| Tamanrasset   | 1P   | 44 <sup>C</sup>         |   |            |      |      |
| Warramunga    | ePKP | 42 37                   |   |            |      |      |

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Mer de Banda.

7° 5 S ; 127° 9 E ; h = 115<sup>km</sup> ; H = 12<sup>h</sup>.25<sup>m</sup>09.7<sup>s</sup>. (CGS)  
 7° 5 S ; 128° 1 E ; h = 124<sup>km</sup> ; H = 12<sup>h</sup>.25<sup>m</sup>10<sup>s</sup>. (URSS)

Res senti à Darwin.

M. = 7.2(Rabaul) ; 7.0(Uppsala - Kiruna) ; 6.7(Honiara) ; 6.3(URSS -  
 Kajaani) ; 6 1/4(Pasadena) ; 6.0(Palisades) ; 5.9(CGS) ; 5.8(Nairobi -  
 Davao) ; 5.7(South Pole) ;  
 5.6(North Pole - Mt. Tsukuba) ; 5.5(Mundaring)

|                 |      |                      |    |          |      |      |
|-----------------|------|----------------------|----|----------|------|------|
| Darwin          | eP   | 12 26 27             |    |          | 625  | 5.6  |
| Warramunga      | eP   | 28 13.5              |    |          | 1545 | 13.9 |
| Davao           | eP   | 36.0                 |    |          | 1620 | 14.6 |
| Tabele          | 1P   | 29 04.5              |    |          | 1930 | 17.4 |
| Port Moresby    | 1P   | 22.3 <sup>D</sup>    | eS | 12 32 52 | 2130 | 19.2 |
| Lae             | eP   | 24                   |    |          | 2100 | 18.9 |
| Meekeatharra    | eP   | 44.9 <sup>C</sup>    |    |          | 2330 | 21.0 |
| Charters Towers | 1P   | 52.3                 | 1S | 33 32    | 2420 | 21.8 |
| Esa'Ala         | 1P   | 30 02.5 <sup>D</sup> |    |          | 2530 | 22.8 |
| Manila          | 1P   | 10                   | 1S | 34 20    | 2555 | 23.0 |
| Kalgoorlie      | 1P   | 13.8 <sup>C</sup>    |    |          | 2660 | 23.9 |
| Wanliss Street  | eP   | 18.5                 |    |          | 2710 | 24.4 |
| Keravat         | 1P   | 18.5                 |    |          | 2690 | 24.2 |
| Rabalanakaia    | eP   | 19                   |    |          | 2710 | 24.4 |
| Rabaul          | e 1P | 19                   | 1S | 30       | 2710 | 24.4 |
| Sulphur Creek   | 1P   | 19.5                 |    |          | 2710 | 24.4 |
| Baguio          | eP   | 23.5                 |    |          | 2755 | 24.8 |
| Mundaring       | 1P   | 38.6                 |    |          | 2900 | 26.1 |
| Guam            | eP   | 40.0                 | e  | 36 29.0  | 2980 | 26.8 |



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|                   |    |       |                   |       |    |       |                 |      |
|-------------------|----|-------|-------------------|-------|----|-------|-----------------|------|
| Adélaïde          | 1P | 12 31 | 00·8              | eS    | 12 | 35 40 | 32 30           | 29·1 |
| Brisbane          | 1P |       | 13                |       |    |       | 3420            | 30·8 |
| Tai tung          | P  |       | 20·1              |       |    |       | 3420            | 30·8 |
| Honiara           | 1P |       | 23                | eS    | 36 | 20    | 3530            | 31·8 |
| Hwallien          | P  |       | 25                |       |    |       | 3540            | 31·9 |
| Hong Kong         | P  |       | 28·0              |       |    |       | 3610            | 32·5 |
| Aupu              | 1P |       | 37·0              |       | 38 | 42·0  | 3670            | 33·0 |
| Taipei            | eP |       | 41                |       |    |       | 3660            | 32·9 |
| Canberra          | 1P |       | 42·8 <sup>D</sup> | iS    | 36 | 54·0  | 3755            | 33·8 |
| Toolangi          | eP |       | 44·0              | eS    |    | 57·0  | 3780            | 34·0 |
| Koumac            | 1P | 32    | 12·2 <sup>D</sup> |       |    |       | 4170            | 37·5 |
| Savannah          | 1P |       | 20·0 <sup>D</sup> |       |    |       | 4245            | 38·2 |
| Tarraleah         | 1P |       | 21·8 <sup>D</sup> |       |    |       | 4270            | 38·4 |
| Moorlands         | 1P |       | 26·0 <sup>D</sup> |       |    |       | 4310            | 38·8 |
| Luganville        | 1P |       | 27·7              |       |    |       | 4355            | 39·2 |
| Tasmania Univ.    | 1P |       | 29·6 <sup>D</sup> | e     | 32 | 48·0  | 4355            | 39·2 |
| Port Blair        | 1P |       | 33·0              | iS    | 38 | 27·0  | 4420            | 39·8 |
| Nouméa            | 1P |       | 33·3 <sup>D</sup> | iS    |    | 30    | 4430            | 39·9 |
| Quanaham          | 1P |       | 37·0              | iS    |    | 37    | 4480            | 40·3 |
| Lonorore          | 1P |       | 37·8              |       |    |       | 4 480           | 40·3 |
| Port Vila         | 1P |       | 39·1 <sup>D</sup> |       |    |       | 4520            | 40·7 |
| Oishiyama         | eP |       | 51·0              |       |    |       | 4655            | 41·9 |
| Wakaura           | eP |       | 52·0              |       |    |       | 4670            | 42·0 |
| Shiraki           | P  |       | 52·5              |       |    |       | 4670            | 42·0 |
| Abuyama           | 1P |       | 58·2              |       |    |       | 4750            | 42·7 |
| Kyosumi           | eP | 33    | 07·7              | esp   | 33 | 39·6  | 4890            | 44·0 |
| Do दौरा           | eP |       | 10·1              | e     | 38 | 34·5  | 4945            | 44·5 |
| Mt. Tsukuba       | 1P |       | 10·8              | iS    | 39 | 33·8  | 4990            | 44·9 |
| Matsushiro        | P  |       | 13                | (ScP) | 38 | 35    | 4985            | 44·9 |
| Chittagong        | P  |       | 28                | S     | 40 | 00    | 5120            | 46·1 |
| Shillong          | 1P |       | <del>29</del>     | iS    | 40 | 08·8  | <del>5130</del> | 46·0 |
| Calcutta          | 1P |       | 50                | iS    | 40 | 47    | 5420            | 48·8 |
| Vishakhapatnam    | 1  |       | 58                | iS    | 41 | 02    | 5620            | 50·6 |
| Monowal           | P  | 34    | 04·5              |       |    |       | 5700            | 51·3 |
| Bokaro            | 1P |       | 05                | S     |    | 14    | <del>5720</del> | 51·5 |
| Madras            | 1P |       | 06·0              | iS    |    | 17·0  | 5730            | 51·6 |
| Chatra            | 1P |       | 12                | eS    |    | 25    | 5800            | 52·2 |
| Karapiro          | 1P |       | 15·6              |       | 42 | 38    | 5845            | 52·6 |
| Kodaikanal        | 1P |       | 18                | iS    | 41 | 38    | 5915            | 53·2 |
| Wellington        | P  |       | 18                | S     |    | 38    | 5945            | 53·5 |
| Trivandrum        | 1P |       | 18                | iS    |    | 38    | 5910            | 53·2 |
| Macquarie I       | 1P |       | 19·4              |       |    |       | 5900            | 53·1 |
| Youjno Sakhalinsk | 1P |       | 37                | eS    | 42 | 15    | 6205            | 55·9 |
| Goa               | eP |       | 52                | iS    |    | 43·8  | 6470            | 58·2 |
| Oulan Bator       | 1P |       | 55                | S     |    | 42    | 6470            | 58·2 |
| Poona             | eP | 35    | 00                | e     | 41 | 53    | 6580            | 59·2 |
| Terre Adélie      | 1P |       | 03·5              | iS    | 43 | 07·3  | 6630            | 59·7 |
| Afiama lu         | eP |       | 04                | eS    | 42 | 52    | 6610            | 59·5 |
| Bombay            | 1P |       | 07                | iS    | 43 | 08    | 6700            | 60·3 |
| New Dehli         | 1P |       | 09                | iS    |    | 12    | 6730            | 60·6 |
| Dehra Dun         | eP |       | 12                | i     |    | 12    | 6755            | 60·8 |
| Esen Boulak       | 1P |       | 13                | S     |    | 13    | 6735            | 60·6 |
| Bhakra            | eP |       | 22                |       |    |       | 6950            | 62·6 |
| Severo Kourilsk   | 1P |       | 25 <sup>D</sup>   |       |    |       | 6985            | 62·9 |

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|                   |     |                       |      |                    |       |      |
|-------------------|-----|-----------------------|------|--------------------|-------|------|
| Irkoutsk          | P   | 12 35 26 <sup>C</sup> | S    | 12 43 49           | 6985  | 62.9 |
| Mi my             | 1P  | 29.5                  | 1S   | 55.0               | 7080  | 63.7 |
| Lahore            | P   | 34                    | S    | 59                 | 7130  | 64.2 |
| Mangla            | eP  | 42.4                  |      |                    | 7265  | 65.4 |
| Bodajbo           | 1P  | 46 <sup>C</sup>       |      |                    | 7340  | 66.1 |
| Warsak            | P   | 55                    |      |                    | 7500  | 67.5 |
| Karachi           | eP  | 55.3                  |      |                    | 7490  | 67.4 |
| Talgar            | eP  | 38 01                 | 1S   | 44 53              | 7575  | 68.2 |
| Khorog            | 1P  | 06                    | 1S   | 59                 | 7665  | 69.0 |
| Magadan           | 1P  | 07                    | 1S   | 45 06              | 7700  | 69.3 |
| Yakoutsk          | 1P  | 07                    | S    | 04                 | 7700  | 69.3 |
| Quetta            | 1P  | 07.2 <sup>C</sup>     | eS   | 00.0               | 7700  | 69.3 |
| Frounze           | 1P  | 09 <sup>C</sup>       | epP  | 36 45              | 7735  | 69.6 |
| Kouliab           | eP  | 12.6                  | eS   | 45 13.4            | 7830  | 70.5 |
| Garm              | 1P  | 14 <sup>C</sup>       |      |                    | 7840  | 70.6 |
| Semipalatinsk     | P   | 15.5                  |      |                    | 7875  | 70.9 |
| Rarotonga         | eP  | 17.5                  |      |                    | 7880  | 70.9 |
| Douchambé         | 1P  | 20 <sup>C</sup>       |      |                    | 7935  | 71.4 |
| Tachkent          | 1P  | 25 <sup>D</sup>       | 1pP  | 36 59              | 8035  | 72.3 |
| Scott Base        | P   | 29.8                  | S    | 45 48              | 8130  | 73.2 |
| Samarkand         | 1P  | 30 <sup>C</sup>       | 1sP  | 37 08              | 8130  | 73.2 |
| Mawson            | eP  | 33.0                  |      |                    | 8200  | 73.8 |
| Mashad            | 1P  | 54.2                  | e(S) | 46 03              | 8590  | 77.3 |
| Kipapa            | eP  | 58.0                  |      |                    | 8680  | 78.1 |
| Honolulu          | eP  | 58.0                  |      |                    | 8680  | 78.1 |
| Tiksi             | 1P  | 37 00 <sup>C</sup>    | 1S   | 47                 | 8775  | 79.0 |
| Tananarive        | 1P  | 01 <sup>C</sup>       | f    | 37 10 <sup>C</sup> | 8725  | 78.5 |
| Hawai Volc.Obs.   | eP  | 12.0                  |      |                    | 8910  | 80.2 |
| Kizyl_Arvat       | 1P  | 13 <sup>D</sup>       | 1S   | 47 10              | 8970  | 80.7 |
| Chiraz            | 1P  | 13.4                  |      |                    | 8980  | 80.8 |
| Papeete(Orstom)   | 1P  | 15.0                  |      |                    | 8970  | 80.7 |
| Papeete           | 1P  | 15.3                  |      |                    | 8970  | 80.7 |
| Papenoo           | 1P  | 16.1                  |      |                    | 8980  | 80.8 |
| South Pole        | 1P  | 20.8                  | eS   | 26.9               | 9180  | 82.6 |
| Tiputa            | 1P  | 24.9                  |      |                    | 9200  | 82.8 |
| Téhéran           | 1P  | 26.0 <sup>C</sup>     |      |                    | 9280  | 83.5 |
| Sverdlovsk        | 1P  | 28 <sup>C</sup>       | S    | 53                 | 9345  | 84.1 |
| Kermanshah        | e1P | 41                    |      |                    | 9630  | 86.7 |
| Bakou             | 1P  | 41 <sup>C</sup>       | 1S   | 48 06              | 9795  | 88.1 |
| Byrd              | 1P  | 41.7                  | e    | 39 59.9            | 9810  | 86.5 |
| Tabriz            | 1P  | 49                    | 1pP  | 38 21              | 9770  | 87.9 |
| Makhachkhala      | P   | 50                    | 1sP  | 29                 | 9795  | 88.1 |
| Kirovabad         | P   | 52 <sup>C</sup>       |      |                    | 9830  | 88.5 |
| Big Mountain      | eP  | 58.0                  |      |                    | 9980  | 89.8 |
| Tbilisi           | eP  | 59                    | epP  | 32                 | 9980  | 89.8 |
| Sparrevohn        | eP  | 59.0                  |      |                    | 10000 | 90.0 |
| Addis Ababa       | eP  | 38 02                 |      |                    | 10030 | 90.3 |
| Bakouriani        | eP  | 02.7                  | 1pP  | 34                 | 10085 | 90.8 |
| Nairobi           | 1P  | 04.0                  |      |                    | 10100 | 90.9 |
| Novo_Lazarevskaya | 1P  | 04                    | 1S   | 48 56.5            | 10150 | 91.3 |

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|                 |       |       |                   |      |       |      |       |       |
|-----------------|-------|-------|-------------------|------|-------|------|-------|-------|
| Poti            | 1P    | 12 38 | 04·7              |      |       |      |       |       |
| Changalane      | eP    |       | 07·0              | e    | 12 38 | 08·1 | 10200 | 91·8  |
| Barrow          | 1P    |       | 07·1 <sup>C</sup> |      |       |      | 10270 | 92·4  |
| Tanana          | eP    |       | 10·0              |      |       |      | 10290 | 92·6  |
| Palmer          | eP    |       | 10·6              |      |       |      | 10355 | 93·2  |
| Mts Sheep Creek | eP    |       | 15·1              |      |       |      | 10455 | 94·1  |
| College         | 1P    |       | 16·0              | ePP  | 42    | 02·9 | 10480 | 94·3  |
| Kheis           | eP    |       | 16                | DP   | 38    | 52   | 10460 | 94·1  |
| Gilmore Creek   | eP    |       | 16·2              |      |       |      | 10490 | 94·4  |
| Pedro Dome      | eP    |       | 17·0              |      |       |      | 10490 | 94·4  |
| Black Rapids    | eP    |       | 19·0              |      |       |      | 10545 | 94·9  |
| Grahamstown     | 1P    |       | 20·0              |      |       |      | 10590 | 95·3  |
| Bulawayo        | eP    |       | 26                | e    | 39    | 00   | 10680 | 93·1  |
| Moskva          | P     |       | 27                | S    | 49    | 35   | 10700 | 96·3  |
| Jérusalem       | eP    |       | 32                | ePP  | 42    | 16   | 10685 | 96·2  |
| Simferopol      | eP    |       | 35                | eS   | 49    | 51   | 10880 | 97·9  |
| Kimberley       | 1P    |       | 35                |      |       |      | 10865 | 97·8  |
| Apatity         | eP    |       | 36 <sup>D</sup>   | 1S   |       | 54   | 10960 | 98·6  |
| Kevo            | eP    |       | 46                | eSKS |       | 10   | 11190 | 100·7 |
| Kajaani         | 1P    |       | 46·6 <sup>D</sup> | eS   | 50    | 18   | 11230 | 101·1 |
| Sodankylä       | 1P    |       | 47·4              |      |       |      | 11245 | 101·3 |
| Qulu            | 1P    |       | 49·4              |      |       |      | 11315 | 101·8 |
| Kings Bay       | eP    |       | 50                |      |       |      | 11345 | 102·1 |
| North Pole      | eP    |       | 53·3              |      |       |      | 11390 | 102·5 |
| Mould Bay       | eP    |       | 54·0              | 1    | 47    | 04·0 | 11390 | 102·5 |
| Vrincioala      | P     |       | 56                | ei   | 38    | 58   | 11455 | 103·1 |
| Nurmijaerwi     | eP    |       | 57                |      |       |      | 11445 | 103·0 |
| Kiruna          | 1P    |       | 57·6              |      |       |      | 11490 | 103·4 |
| Uméa            | 1P    | 39    | 00·7              | 1SKS | 48    | 30   | 11605 | 104·5 |
| Station Nord    | eP    |       | 02                |      |       |      | 11590 | 104·3 |
| Warszawa        | eP    |       | 05                | e    | 43    | 49   | 11800 | 106·2 |
| Oujgorod        | 1P    |       | 10                |      |       |      | 11765 | 105·9 |
| Uppsala         | 1P    |       | 12·5              |      |       |      | 11830 | 106·5 |
| Coppermine      | eP    |       | 14·8              |      |       |      | 11880 | 106·9 |
| Niedzica        | eP    |       | 16                | e1PP |       | 45   | 11900 | 107·1 |
| Krakow          | eP    |       | 17                | ePP  |       | 41   | 11915 | 107·2 |
| Skalstugan      | 1P    |       | 18·1              |      |       |      | 11990 | 107·9 |
| Uddeholm        | 1P    |       | 18·3              |      |       |      | 12050 | 108·5 |
| Bangui          | 1P    |       | 27·7              | 1S   |       | 38·7 | 12190 | 109·7 |
| Collm           | eP    |       | 34                | ePP  | 44    | 16   | 12365 | 111·3 |
| Moxa            | eP    |       | 39                |      |       |      | 12480 | 112·3 |
| Pasadena        | eP    |       | 52                | 1PP  |       | 31   | 12660 | 114·0 |
| Raciborz        | ePKP  | 43    | 14                | ePP  | 43    | 57   | 12035 | 108·3 |
| Berkeley        | PKP   |       | 21·0              |      |       |      | 12245 | 110·2 |
| Blue M.         | PKP   |       | 29·3              |      |       |      | 12520 | 112·7 |
| Wien            | e1PKP |       | 29·7              |      |       |      | 12205 | 109·9 |
| Longmire        | PKP   |       | 30·5              |      |       |      | 12145 | 109·3 |
| Mineral         | PKP   |       | 32·3 <sup>D</sup> |      |       |      | 12270 | 110·4 |
| Trieste         | ePKP  |       | 32·5              | 1PP  | 44    | 16   | 12445 | 112·1 |
| Mt. Hamilton    | PKP   |       | 32·5 <sup>C</sup> |      |       |      | 12310 | 110·8 |
| Pruhonice       | ePKP  |       | 33                |      |       |      | 12295 | 110·7 |
| Oroville        | PKP   |       | 33·0              |      |       |      | 12290 | 110·6 |

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|                 |                    |                         |      |            |       |       |
|-----------------|--------------------|-------------------------|------|------------|-------|-------|
| Jamestown       | PKP                | 12 43 33.3 <sup>C</sup> | e    | 12 44 14.8 | 12400 | 111.6 |
| Stone Canyon    | PKP                | 34.0                    | e    | 48 09.5    | 12356 | 111.2 |
| Erlangen        | PKP                | 34.4                    | ePP  | 29.7       | 12535 | 112.8 |
| Zagreb          | PKP                | 34.7                    | e    | 44 00.0    | 12280 | 110.5 |
| Hungry Horse    | PKP                | 35.0                    | e    | 43 38.3    | 12870 | 114.0 |
| Newport         | PKP                | 35.0                    |      |            | 12455 | 112.1 |
| Edmonton        | PKP                | 35.0                    |      |            | 12545 | 112.9 |
| Priest          | PKP                | 35.0 <sup>C</sup>       |      |            | 12410 | 111.7 |
| Sa da Bandeira  | PKP                | 35.5                    |      |            | 12355 | 111.2 |
| l'Aquila        | ePKP               | 36                      | ePP  | 44 24      | 12565 | 113.1 |
| Eureka          | PKP                | 38.4                    |      |            | 12755 | 114.8 |
| Butte           | PKP                | 40.1                    |      |            | 12855 | 115.7 |
| Buhlerhohe      | iPKP               | 40.2                    |      |            | 12775 | 115.0 |
| Haudompré       | ePKP <sub>1</sub>  | 40.9                    |      |            | 12930 | 116.4 |
| Chorzow         | ePP                | 41                      |      |            | 11975 | 107.8 |
| Lansieuvillard  | e1PKP <sub>1</sub> | 41.7                    | ei   | 43 55.0    | 12985 | 116.9 |
| Roselend        | ePKP <sub>1</sub>  | 42                      | ei   | 44.6       | 12995 | 117.0 |
| Bensberg        | ePKP               | 42                      | ei   | 44 42      | 12755 | 114.8 |
| Karlsruhe       | PKØ                | 42.4 <sup>D</sup>       |      | 42         | 12745 | 114.7 |
| Witteween       | PKP                | 43                      |      |            | 12725 | 114.5 |
| Digway          | PKP                | 43.3                    |      |            | 13000 | 117.0 |
| Monteynard      | ePKP <sub>1</sub>  | 43.5                    |      |            | 13090 | 117.8 |
| Strasbourg      | PKP                | 44                      | e1PP | 46         | 12810 | 115.3 |
| Salt Lake City  | PKP                | 44.0                    | e    | 43 49.0    | 13070 | 117.6 |
| St. Saulge      | e1PKP <sub>1</sub> | 44.3                    |      |            | 13170 | 118.5 |
| Isola           | PKP                | 44.3                    |      |            | 13010 | 117.1 |
| Sommée Lormes   | e1PKP <sub>1</sub> | 44.6                    |      |            | 13130 | 118.2 |
| Les Buteaux     | ePKP <sub>1</sub>  | 44.6                    |      |            | 13140 | 118.3 |
| Akureyri        | ePKP               | 46                      |      |            | 13020 | 117.2 |
| Gödhavn         | iPKP               | 46.4                    |      |            | 13145 | 118.3 |
| Glen Canyon     | PKP                | 46.5                    |      |            | 13190 | 118.7 |
| Garchy          | ePKP               | 46.5                    | i    | 45 06.9    | 13190 | 118.7 |
| Clermont        | ePKP               | 47                      |      |            | 13250 | 119.3 |
| Flaming Gorge   | PKP                | 47.0                    |      |            | 13270 | 119.4 |
| Vouglans        | e1PKP <sub>1</sub> | 47.3                    | e1PP | 44 56.9    | 13040 | 117.4 |
| Uinta Basin     | PKP                | 47.7                    | e    | 51 14.0    | 13270 | 119.4 |
| Tonto Forest    | ePKP               | 48.7                    | eSKS | 50 05.0    | 13290 | 119.6 |
| Toulx Ste Croix | ePKP <sub>1</sub>  | 49                      |      |            | 13295 | 119.6 |
| Archignac       | ePKP <sub>1</sub>  | 50.3                    |      |            | 13410 | 120.7 |
| Le Pouchou      | ePKP <sub>1</sub>  | 50.3                    |      |            | 13435 | 120.9 |
| Gorron          | ePKP <sub>1</sub>  | 50.6                    |      |            | 13410 | 120.7 |
| La Frestale     | ePKP <sub>1</sub>  | 50.8                    |      |            | 13455 | 121.1 |
| Champ du Feu    | ePKP <sub>1</sub>  | 50.8                    |      |            | 12855 | 115.7 |
| Le Pertre       | ePKP <sub>1</sub>  | 51.5                    |      |            | 13440 | 121.0 |
| Sétif           | iPKP               | 51.5                    |      |            | 13385 | 120.5 |
| Folignigre      | ePKP <sub>1</sub>  | 51.7                    |      |            | 13370 | 120.3 |
| Frobisher       | PKP                | 51.9                    |      |            | 13620 | 122.6 |
| Besançon        | ePKP               | 52                      | ePP  | 44 52      | 12985 | 116.9 |
| St. Sauveur     | ePKP               | 52.4                    |      |            | 13345 | 120.1 |
| Alger           | iPKP               | 53.3 <sup>C</sup>       | i    | 45 26      | 13570 | 122.2 |
| Tamanrasset     | PKP                | 54.0                    |      |            | 13620 | 122.6 |

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|                              |                   |                   |              |                    |                  |                  |
|------------------------------|-------------------|-------------------|--------------|--------------------|------------------|------------------|
| Albuquerque                  | PKP               | 12 43 55.7        | e            | 12 45 32.0         | 13700            | 123.3            |
| Flaming Gorge                | PKP               | 56.0              | i            | 08.2               | 13220            | 118.0            |
| Tortosa                      | iPKP              | 56                |              |                    | 13645            | 122.8            |
| Alicante                     | iPKP              | 56.5              | ePP          | 42                 | 13820            | 124.4            |
| Logrono                      | ePKP              | 57                | e            | 47                 | 13805            | 124.3            |
| Almería                      | iPKP              | 44 01             | iPP          | 56                 | 14035            | 126.3            |
| Toledo                       | ePKP              | 02.2              | i            | 44 07.0            | 14040            | 128.4            |
| Lomé                         | iPKP <sub>1</sub> | 06                | ePP          | 45 59              | 14120            | 127.1            |
| Porto                        | PKP               | 06                | i            | 47 18.0            | 14320            | 128.9            |
| Lawrence                     | PKP               | 07.0              | i            | 20.4               | 14470            | 130.2            |
| Manhattan                    | PKP               | 07.0              |              |                    | 14345            | 129.1            |
| Ifrane                       | ePKP              | 07                | ei           | 48 40              | 14390            | 129.5            |
| Wichita M.                   | PKP               | 07.5              |              |                    | 14390            | 129.5            |
| Peldehue                     | ePKP              | 08.5              | e            | 47 36              | 15100            | 135.9            |
| Lisboa                       | PKP               | 09.0              | SKS          | 51 10.5            | 14490            | 130.4            |
| Rabat                        | ePKP              | 09.0              | LM           | 13 50 --           | 24510            | 130.6            |
| Dubuque                      | PKP               | 09.6              |              |                    | 14590            | 131.3            |
| Averroes                     | PKP               | 10                | eiM          | 12 47 27           | 14800            | 131.4            |
| Santiago                     | PKP               | 10.0              |              |                    | 15080            | 135.7            |
| Tulsa                        | PKP               | 11.0              |              | 46 30              | 14570            | 131.1            |
| Ottawa                       | PKP               | 11.0              | i            | 50 44.0            | 15220            | 137.0            |
| Léon                         | iPKP              | 12                | iSKS         | 51 04              | 14480            | 130.3            |
| Brébeuf                      | PKP               | 13.0              | e            | 50 50.3            | 15310            | 137.8            |
| Cumberland Pl.               | ePKP              | 13.2              |              |                    | 15390            | 138.5            |
| Pres. Infiernillo            | ePKP              | 14                |              |                    | 14495            | 130.4            |
| Nat. Univ. Mexico            | ePKP              | 14                |              |                    | 14765            | 132.9            |
| Karlskrona                   | i (PP)            | 14.3              |              |                    | 12060            | 108.5            |
| Ann Arbor                    | PKP               | 15.0              |              | 59 48.0            | 15055            | 135.5            |
| <del>Nat. Univ. Mexico</del> | <del>PKP</del>    | <del>16.0</del>   | <del>i</del> | <del>47 28.0</del> | <del>14770</del> | <del>132.3</del> |
| Kongsberg                    | iPP               | 16.2              |              |                    | 12275            | 110.5            |
| Tacubaya                     | ePKP              | 17                |              |                    | 14755            | 132.8            |
| Morgan town                  | PKP               | 18.6              | e            | 50.0               | 15490            | 139.4            |
| Berlin                       | PKP               | 20.6              |              |                    | 15490            | 139.4            |
| Weston                       | PKP               | 22.0              |              |                    | 15700            | 141.3            |
| Roma                         | ePP               | 23                | e            | 13 00 03           | 12645            | 113.8            |
| Palisades                    | PKP               | 25.0              | iSKS         | 12 51 12.0         | 15710            | 141.4            |
| Vista Hermosa                | iPKP              | 25.5              |              |                    | 15050            | 135.4            |
| La Palma                     | PKP               | 30.0              |              |                    | 15890            | 143.0            |
| Antofagasta                  | iPKP              | 33.0 <sup>C</sup> |              |                    | 16020            | 144.2            |
| M Bour                       | iPKP <sub>1</sub> | 35                | ePPP         | 10                 | 16095            | 144.9            |
| Nana                         | PKP               | 45.0              | i            | 49                 | 16520            | 148.7            |
| Pavia                        | ePP               | 46                | M            | 25 00              | 12820            | 115.4            |
| Huancayo                     | PKP               | 46.0              |              |                    | 16855            | 149.9            |
| Penas                        | PKP               | 48.0              | (PP)         | 48 58.5            | 16820            | 151.4            |
| Balboa Heights               | PKP               | 48.8              | e            | 53 44.4            | 16980            | 152.8            |
| Quito                        | iPKP              | 50.2 <sup>C</sup> |              | 55 20              | 16955            | 152.6            |
| Bogota                       | PKP               | 56.5              | i            | 48 19.0            | 17555            | 158.0            |
| San Juan                     | PKP               | 59.3              | iSPKP        | 45 33.2            | 18080            | 162.7            |
| Galera zamba                 | PKP               | 45 01.0           |              |                    | 17430            | 156.9            |
| Caracas                      | eiPKP             | 03.0 <sup>C</sup> |              |                    | 18345            | 165.1            |
| Trinidad                     | PKP               | 04.8              |              |                    | 18920            | 170.2            |

Inscrit à Ponta Delgada - Windhoek - Bucaresti - Focznani -  
 Wlen Kobenzl - Kasperské Hory - Praha - Madras - Karoi - Fürstenfeldbruck -  
 Beograd - Tunwater - Lubbock - Wichita M. - Seattle - Vista Hermosa - Santiago -

Inscrit à Goteborg, La Mourre, St Paul en Foret, Lorgues.

XIII.- 14 Janvier

Nord Ouest de la Russie.

69° 2' N ; 31° 2' E ; H = 12h.27<sup>mn</sup>23<sup>s</sup>. (Uppsala)

|        |     |            |     |            |     |     |
|--------|-----|------------|-----|------------|-----|-----|
| Kiruna | iPn | 12 28 29.4 | iSn | 12 29 18.4 | 460 | 4.1 |
| Uméa   | iSn | 30 27.5    |     |            |     |     |

XIV.- 14 Janvier

Sicile (Prémonitoire du séisme du 15 Janvier à 02h.01<sup>mn</sup>06<sup>s</sup>.)37° 8' N ; 13° 1' E ; h = 33<sup>km</sup> ; H = 12h.28<sup>mn</sup>24<sup>s</sup>. (CGS)27° 9' N ; 13° 0' E ; H = 12h.28<sup>mn</sup>23<sup>s</sup>. (BCIS)

Dégâts dans la vallée du Belice à Gibellina, Salaparuta et Poggioreale; prémonitoire de la secousse principale du 15 Janvier à 02h.01<sup>mn</sup>

M. = 5.5 (Stuttgart); 5.3 (Bensberg); 5.1 (CGS - URSS); 4.3 (Strasbourg); 4.7 (Wichita M.)

|                  |       |            |       |            |      |      |
|------------------|-------|------------|-------|------------|------|------|
| Messina Ing      | ePg   | 12 28 57.3 | iS    | 12 29 24.3 | 220  | 2.0  |
| Messina          | Pn    | 53.1       | i     | 30 24.5    | 220  | 2.0  |
| Taranto          | ePn   | 29 28      | eSn   | 20         | 465  | 4.2  |
| Roma             | (e)Pn | 29.5       |       |            | 455  | 4.1  |
| Valsamata        | ePn   | 53.0       |       |            | 660  | 5.9  |
| Sétif            | eP    | 59         |       |            | 705  | 6.4  |
| Monaco           | ePn   | 30 09.5    | i     | 31 32.0    | 815  | 7.3  |
| La Mourre        | eiP   | 10.7       |       |            | 830  | 7.5  |
| St. Paul en F.   | eiP   | 12.1       |       |            | 835  | 7.5  |
| Lorgues          | eiP   | 13.3       |       |            | 845  | 7.6  |
| Skopje           | iP    | 16.1       |       |            | 850  | 7.6  |
| Isola            | iPn   | 17.7       |       |            | 870  | 7.8  |
| Trieste          | ePn   | 19.5       | 1(Sn) | 44         | 880  | 7.9  |
| Ljubljana        | ePn   | 26         |       |            | 925  | 8.3  |
| Athènes          | ePn   | 27.0       |       |            | 935  | 8.4  |
| Bologna          | ePg   | 32         | e     | 32 50      | 755  | 6.8  |
| Lanslevillard    | eiP   | 33.3       | i     | 30 38.4    | 980  | 8.8  |
| Monteynard       | eiP   | 35.4       |       |            | 1005 | 9.1  |
| Beograd          | e(Pn) | 41.3       | eSg   | 33 21.9    | 990  | 8.9  |
| Padova           | ePg   | 51         | e     | 22 41      | 850  | 7.7  |
| Tortosa          | eP    | 52         | iS    | 32 43      | 1135 | 10.2 |
| Fürstenfeldbruck | eP    | 53         | iB    | 49         | 1155 | 10.4 |
| Vouglans         | (e)P  | 54         | e     | 31 24.0    | 1135 | 10.2 |
| Clermont         |       | 31 00      |       |            | 1255 | 11.3 |
| Kasperské Hory   | eP    | 05         |       |            | 1260 | 11.3 |
| Bratislava       | eiP   | 06         |       |            | 1195 | 10.3 |
| Haudompré        | eiP   | 06.3       |       |            | 1260 | 11.3 |
| Champ du Feu     | eiP   | 07.3       |       |            | 1270 | 11.4 |
| Stuttgart        | eP    | 07.3(D)    |       |            | 1255 | 11.3 |

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|                |      |       |       |      |           |       |      |
|----------------|------|-------|-------|------|-----------|-------|------|
| Les Buteaux    | eIP  | 12 31 | 08·0  |      |           | 1265  | 11·4 |
| Strasbourg     | eP   |       | 09·5  | eLR  | 12 34·3-- | 1275  | 11·5 |
| St. Saulge     | eIP  |       | 09·3  |      |           | 1300  | 11·7 |
| Sommée Lormes  | eIP  |       | 11·7  |      |           | 1290  | 11·3 |
| Campulung      | P    |       | 12    |      |           | 1310  | 11·8 |
| Garchy         | eP   |       | 14·7  |      |           | 1335  | 12·0 |
| Pruhonicé      | eIP  |       | 17·3  |      |           | 1355  | 12·2 |
| Erlangen       | eP   |       | 18·9  |      |           | 1330  | 12·0 |
| Moxa           | eP   |       | 25    |      |           | 1420  | 12·8 |
| Niedzica       | eP   |       | 28    | eIPP | 31 33     | 1415  | 12·7 |
| Onjgorod       | eP   |       | 28    |      |           | 1415  | 12·7 |
| Krakow         | eP   |       | 34    | ePP  | 37        | 1465  | 13·2 |
| Collm          | eP   |       | 37    | e    | 35 14     | 1500  | 13·5 |
| Toledo         | eP   |       | 38·2  | e    | 33 14     | 1505  | 13·5 |
| Foczani        | (P)  |       | 41    |      |           | 1480  | 13·2 |
| Lvov           | (P)  |       | 53    | M    | 53·4--    | 1559  | 14·4 |
| Kichinev       | (P)  | 32    | 02    |      |           | 1645  | 14·8 |
| Ifrane         | (P)  |       | 09    |      |           | 1710  | 15·4 |
| Tamanrasset    | eP   |       | 15    | 1    | 32 17D    | 1815  | 16·3 |
| Le Pouchou     | eS   | 33    | 04·3  |      |           | 1255  | 11·3 |
| Archignac      | eS   |       | 17·0  |      |           | 1265  | 11·4 |
| La Frestale    | eS   |       | 20·8  |      |           | 1300  | 11·7 |
| Uppsala        | IP   |       | 20·9  |      |           | 2470  | 22·2 |
| Uddeholm       | IP   |       | 20·9  |      |           | 2480  | 22·3 |
| Lillehammer    | IP   |       | 30·8  |      |           | 2590  | 23·3 |
| Nurmijaerwi    | IP   |       | 36·0  |      |           | 2645  | 23·8 |
| Bakouriani     | eP   |       | 36·7  |      |           | 2625  | 23·6 |
| Poulkovo       | eP   |       | 45    |      |           | 2735  | 24·6 |
| Uméa           | eP   |       | 59    |      |           | 2935  | 26·4 |
| Kajaani        | eP   | 34    | 14    |      |           | 3080  | 27·7 |
| Oulu           | eP   |       | 19    |      |           | 3150  | 28·3 |
| Kiruna         | IP   |       | 34·9C |      |           | 3375  | 30·4 |
| Sodankylä      | eP   |       | 39    |      |           | 3400  | 30·6 |
| Bangui         | IP   | 35    | 05·7  | IPP  | 35 14·7   | 3745  | 33·7 |
| Lanto          | P    |       | 22·8  |      |           | 3945  | 35·5 |
| Cumberland Pl. | e(P) | 40    | 09·0  |      |           | 8345  | 75·1 |
| Wichita M.     | eP   |       | 55·3  | ePP  | 44 07·5   | 9320  | 83·9 |
| Bozeman SSS    | e(P) | 41    | 00·0  |      |           | 9245  | 83·2 |
| Tonto Forest   | e(P) |       | 38·0  |      |           | 10180 | 91·6 |

Inscrit à Bucaresti - Timisoara - Vinicioaia - Iasy -  
 Wien Kobenzl - Basel - Cine - Reggio Calabria - Buhlerhohe -  
 Istanbul UTI.

XV.- 14 Janvier

Iles aux Renards (Aléoutiennes)

52°8 N ; 171°4 W ; h = 44<sup>km</sup> ; H = 12<sup>h</sup>·40<sup>m</sup>48·5<sup>s</sup> (CGS)

M. = 6·7(Hungry Horse); 6·3(Wichita M.); 6 1/4 - 6 1/2(Pasadena);  
 6·0(Longmire - Cumberland Pl.); 5·9(Albuquerque); 5·8(Oroville);  
 5·7(Blue M.); 5·6(College - CGS); 5·5(Kajaani - Mt. Tsukuba);

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5-4(Eureka - Kevo); 5-3(Dugway); 5-2(Bozeman SSS - Uinta Basin);  
Tonto Forest); 5-1(Bensberg)°

|                    |    |            |        |            |       |      |
|--------------------|----|------------|--------|------------|-------|------|
| Adak               | iP | 12 41 39°5 | 1S     | 12 42 25°5 | 370   | 3°3  |
| Palmer             | eP | 44 17°3    |        |            | 1645  | 14°8 |
| College            | eP | 44°0       | e(S)   | 48 06°0    | 1890  | 17°0 |
| Barrow             | eP | 45 15°0    |        |            | 2180  | 19°6 |
| Sitka              | iP | 28°0       |        |            | 2330  | 21°0 |
| Tumwater           | iP | 47 05°2    |        |            | 3470  | 31°2 |
| Seattle            | iP | 11°0       |        |            | 3480  | 31°3 |
| Longmire           | iP | 15°9       |        |            | 3555  | 32°0 |
| Corvallis          | eP | 18°6       |        |            | 3580  | 32°2 |
| Kipapa             | eP | 21°5       |        |            | 3670  | 33°0 |
| Honolulu           | eP | 22°5       |        |            | 3890  | 33°1 |
| Nordman            | eP | 29°0       |        |            | 3780  | 34°0 |
| Newport            | eP | 30°0       |        |            | 3790  | 34°1 |
| Edmonton           | eP | 30°0       |        |            | 3790  | 34°1 |
| Hungry Horse       | eP | 43°5       | ePcP   | 50 15°5    | 3980  | 35°8 |
| Mineral            | eP | 43°7D      |        |            |       |      |
| Hawai Volc.Observ. | eP | 45°0       |        |            | 3955  | 35°6 |
| Blue M.            | iP | 47°9D      |        |            | 3970  | 35°7 |
| Oroville           | iP | 51°2       | e      | 54 33°8    | 4020  | 36°2 |
| Berkeley           | eP | 54°0C      |        |            | 4090  | 36°8 |
| Mt. Hamilton       | eP | 59°4D      |        |            | 4180  | 37°6 |
| Mt. Tsukuba        | eP | 48 00°0    | e      | 48 28°5    | 4180  | 37°6 |
| Jamestown          | eP | 03°8D      | e      | 49 25°9    | 4210  | 37°9 |
| Butte              | eP | 05°7       | e(S)   | 54 19°2    | 4210  | 37°9 |
| Dodaira            | eP | 06°3       | e      | 50 19°8    | 4255  | 38°3 |
| San Luis Dam       | iP | 06°6       | eS     | 53 57°5    | 4220  | 38°0 |
| Matsushiro         | P  | 07         |        |            |       |      |
| Bozeman SSS        | iP | 08°5       |        |            | 4300  | 38°7 |
| Priest             | eP | 11°8D      |        |            | 4320  | 38°9 |
| Eureka             | iP | 17°0       |        |            | 4400  | 39°6 |
| Dugway             | eP | 29°4       |        |            | 4570  | 41°1 |
| Abuyama            | eP | 31°7       |        |            |       |      |
| Salt Lake City     | eP | 34°5       | e      | 54 08°0    | 4590  | 41°3 |
| Oishiyama          | eP | 36°0       |        |            | 4655  | 41°9 |
| Flaming Gorge      | eP | 37°6       | iP     | 48 45°0    | 4745  | 42°7 |
| Wakaur a           | eP | 38°0       |        |            | 4655  | 41°9 |
| Pasadena           | iP | 38°0       | 1(PcP) | 50 19°0    | 4645  | 41°8 |
| Uinta Basin        | eP | 45°2       | eS     | 55 09°0    | 4780  | 43°0 |
| Glen Canyon        | eP | 52°0       | i      | 48 55°5    | 4880  | 43°9 |
| Flaming Gorge      | eP | 49 05°0    | i      | 54 47°0    | 49 90 | 44°9 |
| Tonto Forest       | eP | 07°1       | ePcP   | 50 49°8    | 5100  | 45°9 |
| Tucson             | eP | 20°7       |        |            | 5280  | 47°5 |
| Albuquerque        | eP | 30°8D      | e      | 59°5       | 5370  | 48°3 |
| Kings Bay          | eP | 33°0       |        |            | 5390  | 48°5 |
| Wichita M.         | eP | 50 06°6    |        |            | 5910  | 53°2 |
| Kevo               | iP | 32°6       |        |            | 6330  | 57°0 |
| Sodankylä          | eP | 47         |        |            | 6600  | 59°4 |
| Kiruna             | iP | 48°2       |        |            | 6590  | 59°3 |



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|                  |      |       |        |      |            |       |       |
|------------------|------|-------|--------|------|------------|-------|-------|
| Cumberland Pl    | ep   | 12 50 | 55.6   |      |            | 6690  | 60.2  |
| Berlin           | iP   | 51    | 03.7   |      |            | 68 10 | 61.3  |
| Oulu             | ep   |       | 04     |      |            |       |       |
| Weston           | ep   |       | 10.0   |      |            | 6990  | 62.9  |
| Kajaani          | iP   |       | 10.7   |      |            | 6945  | 62.5  |
| Uméa             | iP   |       | 15.8   |      |            |       |       |
| Nat. Uni. Mexico | iP   |       | 20     | i    | 13 04 06   |       |       |
| Tacubaya         | ep   |       | 23     |      |            |       |       |
| NurmiJaervi      | ep   |       | 34     |      |            | 7370  | 66.3  |
| Uppsala          | iP   |       | 40.6   |      |            | 7420  | 67.4  |
| Uddeholm         | iP   |       | 40.9   |      |            |       |       |
| Vista Hermosa    | iP   |       | 43     |      |            |       |       |
| Esa Ala          | iP   |       | 57D    |      |            |       |       |
| Papeete          | iP   | 52    | 11.0   |      |            | 8070  | 72.6  |
| Papeioo          | iP   |       | 11.5   |      |            | 8070  | 72.6  |
| Collm            | ep   |       | 38     |      |            | 8470  | 76.2  |
| Pruhonicé        | ep   |       | 40     |      |            |       |       |
| BenSberg         | iP   |       | 41.1C  | ei   | 12 54 08   | 8510  | 76.6  |
| Moxa             | eIP  |       | 42C    |      |            | 8545  | 76.9  |
| Niedzica         | ep   |       | 46.9   |      |            |       |       |
| Erlangen         | ep   |       | 48.5C  |      |            |       |       |
| Bratislava       | eIP  |       | 48.6   | ei   | 13 00 17.1 |       |       |
| Strasbourg       | ep   |       | 49     |      |            |       |       |
| Kaspe rské Hory  | e IP |       | 51     |      |            | 8700  | 78.3  |
| Furstenfeldbruck | ep   |       | 52     | ePP  | 12 53 01   |       |       |
| Folinigre        | ep   |       | 52.7   |      |            | 8720  | 78.5  |
| Haudompré        | ep   |       | 53.0   |      |            |       |       |
| Buhlerhohe       | ep   |       | 53     |      |            |       |       |
| St Sa uveur      | ep   |       | 53.0   |      |            | 8745  | 78.7  |
| Gorron           | ep   |       | 53.7   |      |            | 8755  | 78.8  |
| Le Pertre        | ep   |       | 55.7   |      |            |       |       |
| Budapest         | ep   | 53    | 00     |      |            | 8855  | 79.7  |
| Vouglans         | eIP  |       | 06.5   |      |            |       |       |
| Roselend         | ep   |       | 10     | e    | 54 12      |       |       |
| Lanslevillard    | ep   |       | 11     | ei   | 53 14.0    |       |       |
| Monteynard       | ep   |       | 13.5   | ei   | 54 10.5    |       |       |
| Isola            | iP   |       | 18     |      |            | 9270  | 83.4  |
| Toledo           | ep   |       | 35.5   |      |            |       |       |
| Karapiro         | ep   |       | 50     |      |            |       |       |
| Mt Bour          | ePP  | 59    | 48     | ePPP | 13 01 55   |       |       |
| South Pole       | ePLP | 13 00 | 11.4   |      |            | 15845 | 142.6 |
| Changalane       | PKP  |       | 27.0   |      |            | 16470 | 146.2 |
| Windhoek         | iPKP |       | (32.0) |      |            |       |       |

Inscrit à De Bilt, Ponta Delgada, Roma, Trieste.

XVI. 14 janvier  
Iles Loyauté

20°9S, 170°1E  
M = 3.5 (Nouméa)

H = 13h04mn37s

|           |     |       |       |    |       |      |
|-----------|-----|-------|-------|----|-------|------|
| Ouanaham  | iP  | 13 05 | 19.3C | iS | 13 05 | 49   |
| Port Vila | eIP |       | 30.6  | iS | 06    | 11.5 |

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|        |     |            |    |          |
|--------|-----|------------|----|----------|
| Nouméa | eIP | 13 05 32.6 | iS | 13 06 15 |
| Koumac | iP  | 57.4D      | iS | 58.5     |

XVII. 14 janvier  
Sicile

Prémonitoire du séisme du 15 janvier à 02<sup>h</sup>01<sup>mn</sup>

|                |                     |   |
|----------------|---------------------|---|
| 37°7'N, 13°1'E |                     | H = 13 <sup>h</sup> 15 <sup>mn</sup> 46 <sup>s</sup> (BCIS) |
| 37°7'N, 13°1'E | h = 2 <sup>km</sup> | H = 13 <sup>h</sup> 15 <sup>mn</sup> 41 <sup>s</sup> (CGS)  |

Ressenti.

M = 5.9 (Stuttgart), 5.5 (Bangui), 5.1 (Wichita M), 5.0 (CGS),  
4.9 (Tonto Forest), 4.7 (Uinta Basin), 4.5 (Digway).

|                  |      |          |     |            |      |      |
|------------------|------|----------|-----|------------|------|------|
| Messina I Ng     | ePn  | 13 16 18 | iS  | 13 16 42.5 | 295  | 2.0  |
| Messina          | iPn  | 18.1     | iSn | 44.6       | 220  | 2.0  |
| Reggio Calabria  | ePn  | 20.1     | iSn | 43.3       | 230  | 2.1  |
| Roma             | ePn  | 47.5     | iSn | 17 34.5    | 470  | 4.2  |
| Cuglieri         | ePn  | 49       | eSn | 38         | 480  | 4.3  |
| Taranto          | ePn  | 51.6     | eSn | 44.5       | 475  | 4.3  |
| L'Aquila         | eIPn | 55       | iSb | 18 08      | 515  | 4.7  |
| Valsamata        | eP   | 17 12.8  |     |            | 660  | 5.9  |
| Setif            | iP   | 18.5     |     |            | 705  | 6.3  |
| La Mourre        | eP   | 31.8     |     |            | 840  | 7.6  |
| Monaco           | eP   | 32.5     |     |            | 825  | 7.4  |
| St Paul en foret | eP   | 33.4     |     |            | 845  | 7.6  |
| Lorgues          | eP   | 34.5     |     |            | 855  | 7.7  |
| Skopje           | iP   | 37.1     |     |            | 855  | 7.7  |
| Isda             | iP   | 38.2     |     |            | 880  | 7.9  |
| Bologna          | e(P) | 39       | e   | 18 42      | 770  | 6.9  |
| Cadastre         | eP   | 41       | i   | 10         | 905  | 8.2  |
| Trieste          | iPn  | 43       | e   | 18 22      | 890  | 8.0  |
| Ljubljana        | ePn  | 47       |     |            | 935  | 8.4  |
| Athènes          | ePn  | 47.5     |     |            | 935  | 8.4  |
| Beograd          | ePn  | 49.8     | eSn | 19 42.8    | 1000 | 9.0  |
| Lanslevillard    | eP   | 54       | ei  | 17 59.9    | 985  | 8.9  |
| Monteynard       | eP   | 56.5     | ei  | 18 04.5    | 1015 | 9.1  |
| Zagreb           | ePP  | 18 03.6  | e   | 19 19.6    | 930  | 8.4  |
| Vouglans         | eIP  | 16.1     | ei  | 18 39.4    | 1145 | 10.3 |
| Furstenfeldbruck | eIP  | 17       | ePP | 25         | 1170 | 10.5 |
| Wien Kobenzl     | ePn  | 24       |     |            | 1200 | 10.8 |
| Haudompré        | eP   | 27.2     |     |            | 1270 | 11.4 |
| Les Buteaux      | eP   | 29.0     |     |            | 1275 | 11.5 |
| Champ du Feu     | eP   | 29.2     |     |            | 1280 | 11.5 |
| Stuttgart        | eP   | 29.4     |     |            | 1270 | 11.4 |
| Kasperské Hory   | eIP  | 29.5     |     |            | 1270 | 11.4 |
| Buhlerhohé       | eP   | 30       |     |            | 1260 | 11.5 |
| Gommée Lormes    | eP   | 32.8     |     |            | 1300 | 11.7 |
| St Saulge        | eP   | 32.8     |     |            | 1310 | 11.8 |
| Bagnères         | e(P) | 34       |     |            | 1250 | 11.2 |
| Garchy           | eP   | 37       | i   | 39.9       | 1345 | 12.1 |
| Erlangen         | eP   | 38.8     |     |            | 1340 | 12.1 |
| Pruhonice        | eP   | 39       |     |            | 1370 | 12.3 |

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|              |      |           |       |            |       |      |
|--------------|------|-----------|-------|------------|-------|------|
| Ciné         | EP   | 13 18(40) |       |            | 1320  | 11.9 |
| Moxa         | EP   | 50C       |       |            | 1445  | 13.0 |
| Niedzica     | EP   | 55        | PPP   | 13 19 05   | 1425  | 12.8 |
| Collm        | EP   | 59        | e     | 45         | 1510  | 13.6 |
| Toledo       | EP   | 59.5      | LQ    | 22 00      | 1505  | 13.6 |
| Krakow       | EP   | 03        | Lm    | 20 27      | 1475  | 13.3 |
| Bensberg     | e(P) | 19 14.7   |       |            | 1545  | 13.9 |
| Kichinev     | EP   | 19        |       |            | 1655  | 14.9 |
| Pavia        | eS   | 21        | e     | 26 00      | 195   | 8.0  |
| Ifrane       | P    | 23        |       |            | 17 10 | 15.4 |
| Tamanrasset  | i    | 35        |       |            | 1805  | 16.2 |
| Karlskrona   | IP   | 20 04.9   |       |            | 2060  | 18.5 |
| Le Pouchou   | eS   | 30.4      |       |            | 1260  | 11.4 |
| Archignac    | eS   | 32.0      |       |            | 1275  | 11.5 |
| La Frestale  | eS   | 41.9      |       |            | 1305  | 11.8 |
| Uddeholm     | IP   | 43.0      |       |            | 2490  | 22.4 |
| Uppsala      | IP   | 43.6      |       |            | 2485  | 22.4 |
| Nurmijaervi  | IP   | 57.9      |       |            | 2670  | 24.0 |
| Bakou riani  | IP   | 21 02.8   |       |            | 2630  | 23.7 |
| Moskva       | P    | 03        |       |            | 27 15 | 24.4 |
| Poukovo      | IP   | 07D       |       |            | 27 45 | 24.7 |
| Skalstugan   | EP   | 15        |       |            | 2880  | 25.9 |
| Tabriz       | eIP  | 20        |       |            | 29 10 | 26.2 |
| Uméa         | IP   | 20.6      |       |            | 2945  | 26.5 |
| Kajaani      | EP   | 47        |       |            | 3100  | 27.7 |
| Kiruna       | EP   | 57        |       |            | 3385  | 30.5 |
| Sodankylae   | EP   | 22 06     |       |            | 3410  | 30.7 |
| Bangui       | IP   | 25.7      | i(PP) | 13 23 20.7 | 37 20 | 33.5 |
| Lamto        | P    | 41.5      |       |            | 3930  | 35.4 |
| Kar di       | EP   | 25 28     |       |            | 6270  | 56.4 |
| Bulawayo     | EP   | 48        |       |            | 6595  | 59.4 |
| Tiksi        | EP   | 26 06     |       |            | 6900  | 62.1 |
| Edmonton     | EP   | 27 14.0   |       |            | 8700  | 78.3 |
| Hungry Horse | EP   | 28 08.7   |       |            | 9145  | 82.3 |
| Bozeman SSS  | EP   | 11.0      | e     | 28 15.4    | 9255  | 83.3 |
| Butte        | EP   | 15.7      |       |            | 9270  | 83.4 |
| Newport      | EP   | 16.0      |       |            | 9290  | 83.6 |
| Wichita M.   | EP   | 18.5      |       |            | 9330  | 84.0 |
| Blue M.      | EP   | 26.4      | e     | 29.8       | 9300  | 86.4 |
| Winta Basin  | EP   | 28.8      |       |            | 9590  | 86.3 |
| Dugway       | EP   | 35.7      |       |            | 9780  | 88.0 |
| Eureka       | EP   | 41.0      |       |            | 9900  | 90.1 |
| Tonto Forest | EP   | 55.2      |       |            | 10190 | 91.7 |

Inscrit à Krakow, Timisoara, Budapest, Tortosa, Kasala.

XVIII. 14 janvier  
données insuffisantes

H = 14<sup>h</sup>09.1<sup>mm</sup>

|                |     |            |     |            |
|----------------|-----|------------|-----|------------|
| pruhonice      | IP  | 14 09 20.5 | ISg | 14 09 32.5 |
| Kasperské Hory | IPg | 25.3       | ISg | 40.3       |
| Moxa           | IPn | 27.7       | ISg | 44.5       |
| Praha          | e   | 32         |     |            |
| Erlangen       | e   | 32.7       | eSg | 51         |

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Wien ei (Sg) 14 10 36.5

XIX. 14 Janvier  
Frontière Nagano-Shizjoka (Japon)

35° 14' N, 137° 49' E h = 40 km H = 14h 15<sup>mm</sup> 13.9s (JMA)

|            |    |            |    |            |     |     |
|------------|----|------------|----|------------|-----|-----|
| Iida       | eP | 14 15 22.2 | iS | 14 15 23.4 | 31  | 0.3 |
| Omaezaki   | P  | 27.6       | S  | 42.0       | 79  | 0.7 |
| Funatsu    | iP | 29.8       | iS | 40.6       | 91  | 0.8 |
| Ajiro      | iP | 34.7       | iS | 46.8       | 118 | 1.1 |
| Matsushiro | iP | 36.4       | S  | 53         | 149 | 1.3 |
| Nagano     | eP | 39.3       | eS | 53.6       | 162 | 1.5 |
| Yokohama   | eP | 42.0       |    |            | 169 | 1.5 |
| Maebashi   | eP | 42.8       |    |            | 172 | 1.6 |
| Abuyama    | iP | 43.6       |    |            |     |     |
| Tokyo      | eP | 44.6       | eS | 16 03.5    | 183 | 1.7 |
| Mi to      | eP | 54.7       | S  | 30.4       | 271 | 2.4 |

XX. 14 Janvier  
Iles Tonga

21° 08' S, 173° 07' W h = 33 km H = 14h 33<sup>mm</sup> 59.7 (CGS)

M = 4.9 (Albuquerque), 4.8 (Wichita M), 4.7 (Bozeman SSS),  
4.6 (Dugway), 4.5 (Tonto Forest, CGS), 4.4 (Blue M), 4.2  
(Eureka), 4.1 (Uinta Basin)

|                 |      |          |     |            |       |      |
|-----------------|------|----------|-----|------------|-------|------|
| Afiatalu        | eP   | 14 35 39 | eS  | 14 36 52   | 810   | 7.3  |
| Rarotonga       | eP   | 36 57.5  | eS  | 40 08      |       |      |
| Port Vila       | iP   | 38 05.0C |     |            |       |      |
| Ouanaham        | iP   | 08.5(C)  |     |            |       |      |
| Nouméa          | iP   | 13.9C    |     |            |       |      |
| Luganville      | iP   | 18.1D    |     |            |       |      |
| Koumac          | iP   | 39.6(D)  |     |            |       |      |
| Papeete         | eP   | 39 02.0  |     |            | 25 55 | 23.0 |
| Papenoo         | eP   | 02.0     |     |            | 2580  | 23.2 |
| Tiputa          | eP   | 25.0     |     |            | 2830  | 25.5 |
| Canberra        | eP   | 40 54    |     |            |       |      |
| Charters Towers | eP   | 41 11    |     |            | 4155  | 37.4 |
| Warramunga      | eP   | 42 37    |     |            |       |      |
| Mundaring       | iP   | 44 22.5C |     |            | 6970  | 62.7 |
| Byrd            | P    | 30.3     |     |            | 7055  | 63.5 |
| South Pole      | eP   | 45 05.9  |     |            | 7660  | 69.1 |
| Priest          | eP   | 45.5D    |     |            | 8420  | 75.8 |
| Mt Hamilton     | eP   | 46.0C    |     |            | 8430  | 75.9 |
| San Luis Dam    | eP   | 46.5     |     |            | 8445  | 76.0 |
| Jamestown       | eP   | 51.7C    | e   | 14 46 06.2 | 8570  | 77.1 |
| Goldstone       | P    | 56.0     | SP  | 04.0       | 8630  | 87.7 |
| Pasadena        | e(P) | 56.0     | esp | 04.0       | 8455  | 76.1 |
| Tucson          | eP   | 46 08.0  |     |            | 8 910 | 80.2 |
| Eureka          | iP   | 11.1     |     |            | 8970  | 60.7 |
| Tonto Forest    | eP   | 12.8     |     |            | 8990  | 80.9 |
| Glen Canyon     | eP   | 21.0     |     |            | 9120  | 82.1 |
| Blue M.         | eP   | 24.3     |     |            | 9245  | 83.2 |

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|                |         |            |              |       |       |
|----------------|---------|------------|--------------|-------|-------|
| Dugway         | eP      | 14 46 24.7 |              | 9245  | 83.2  |
| Albuquerque    | eP      | 33.0       | e 14 46 43.0 | 9400  | 84.2  |
| Newport        | eP      | 34.0       |              | 9500  | 85.5  |
| Palmer         | eP      | 34.8       |              | 9400  | 84.6  |
| Nordman        | eP      | 35.0       |              | 9530  | 85.8  |
| Uinta Basin    | eP      | 35.7       |              | 9480  | 85.3  |
| Bozeman SSS    | eP      | 43.5       |              | 9655  | 86.9  |
| College        | eP      | 43.0       |              | 9970  | 87.9  |
| Gilmore Creek  | eP      | 46.1       |              | 9780  | 88.0  |
| Edmonton       | eP      | 53.0       |              | 10045 | 90.4  |
| Wichita M.     | eP      | 59.0       |              | 10245 | 92.2  |
| Raciborz       | ePKP    | 53 45      |              |       |       |
| Krakow         | ePKP1   | 46         | ePKP2 53 58  |       |       |
| Collm          | PKP     | 46.0       | e 57.0       | 16590 | 149.3 |
| Niedzica       | ePKP    | 47         |              |       |       |
| Moxa           | ePKP    | 47.5       |              | 16680 | 150.1 |
| Pruhonic       | ePKP    | 48.5       |              | 16700 | 150.3 |
| Erlangen       | ePKP1   | 51.0 C     |              |       |       |
| Kasperské Hory | e PKP   | 51         |              | 16810 | 151.3 |
| Les Buteaux    | e(PKP1) | 57.3       |              |       |       |
| St Saulge      | e(PKP1) | 57.3       |              | 17090 | 153.8 |
| Sommée Lormes  | e(PKP1) | 57.5       |              | 17080 | 153.7 |

XXI. 14 janvier  
Sicile

Prémonitrice du séisme du 15 janvier à 02h02m

37°9'N, 13°1'E h = 29km

H = 15h48m31.8S (CGS)

37°7'N, 13°2'E

H = 15h48m31S (BCIS)

ressenti.

M = 5.7 (Stuttgart), 5.3 (Bangui), 5.2 (Uppsala, Kiruna), 5.0 (Nummijaervi), 4.9 (Strasbourg), 4.8 (URSS, Pruhonice, Wichita M), 4.7 (CGS, Dugway), 4.5 (Cumberland Pl), 4.3 (Golden), 4.2 (Uinta Basin, Tonto forest).

|                  |      |            |        |            |     |     |
|------------------|------|------------|--------|------------|-----|-----|
| Messina          | iPn  | 15 49 04.2 | iSn    | 15 49 32.3 | 220 | 2.0 |
| Reggio Calabria  | iPn  | 06.0       | iSg    | 44.3       | 225 | 2.0 |
| Messina ING      | iP   | 08         | i      | 14.4       | 220 | 2.0 |
| Roma             | ePn  | 32.8       | iSn    | 50 23.3    | 445 | 4.0 |
| Taranto          | ePn  | 37         | i(Sg)  | 51 04.5    | 460 | 4.1 |
| Cagliari         | ePn  | 39         | eSn    | 50 25      | 465 | 4.2 |
| L'Aquila         | eIPn | 41         | iSn    | 35         | 495 | 4.5 |
| Valsamata        | ePn  | 50 00.0    |        |            | 660 | 5.9 |
| Sétif            | eP   | 04         |        |            | 710 | 6.4 |
| Bologna          | ePn  | 16         | e      | 53 04      | 745 | 6.7 |
| La Mourre        | eP   | 16.9       |        |            | 825 | 7.4 |
| St Paul en Foret | eP   | 18.4       |        |            | 830 | 7.5 |
| Lorgues          | eP   | 19.8       |        |            | 840 | 7.5 |
| Skopje           | iP   | 23.1       |        |            | 845 | 7.6 |
| Isola            | iP   | 24.6       |        |            | 855 | 7.7 |
| Cadarache        | eP   | 26.5       | i      | 51 56      | 890 | 8.0 |
| Trieste          | eIPn | 27         | i'(Sn) | 50         | 870 | 7.8 |
| Ljubljana        | ePn  | 32         | eSn    | 52 07      | 910 | 8.2 |

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|                  |      |       |        |      |       |        |      |      |
|------------------|------|-------|--------|------|-------|--------|------|------|
| Athènes          | ePn  | 15 50 | 33·0   |      |       |        | 830  | 8·4  |
| Lanslevillard    | eP   |       | 40     | ei   | 15 50 | 55·7   | 970  | 8·7  |
| Monteynard       | eP   |       | 42·5   |      |       |        | 1000 | 9·0  |
| Beograd          | ePn  |       | 44·8   | eSn  | 52    | 32·0   | 985  | 8·9  |
| Roselend         | eP   |       | 46     | ei   | 50    | 49·0   | 1015 | 9·2  |
| Soffa            | eP   |       | 49·6   | eS   | 52    | 29·5   | 1020 | 9·2  |
| Vouglans         | eP   |       | 59     | ei   | 51    | 30·9   | 1125 | 10·1 |
| Furstenfeldbruck | eip  | 51    | 02     | iPP  |       | 07     | 1150 | 10·3 |
| Basel            | P    |       | 04     |      |       |        | 1160 | 10·5 |
| Wien             | ePn  |       | 05     |      |       |        | 1180 | 10·6 |
| Srobarova        | eip  |       | 06     |      |       |        | 1180 | 10·6 |
| Bratislava       | iP   |       | 06·5C5 | ei   | 52    | 18·5   | 1185 | 10·7 |
| Budapest         | eP   |       | 07     |      |       |        | 1170 | 10·5 |
| Kasperské Hory   | eip  |       | 11·5   |      |       |        | 1245 | 11·2 |
| Le Pouchou       | eP   |       | 12·0   |      |       |        | 1245 | 11·2 |
| Haudompré        | eP   |       | 13·0   |      |       |        | 1250 | 11·2 |
| Welschbruch      | eP   |       | 13·0   | ei   | 51    | 16·8   | 1255 | 11·3 |
| Champ du Feu     | eP   |       | 13·6   |      |       |        | 1255 | 11·3 |
| Archignac        | eP   |       | 13·6   |      |       |        | 1260 | 11·3 |
| Les Bâteaux      | eP   |       | 13·8   |      |       |        | 1255 | 11·3 |
| Stuttgart        | eP   |       | 14·8   |      |       |        | 1245 | 11·2 |
| La Prestale      | eP   |       | 15·0   |      |       |        | 1295 | 11·6 |
| St Saulge        | eP   |       | 15·9   |      |       |        | 1290 | 11·6 |
| Strasbourg       | eP   |       | 16     | eiLR | 54·3  |        | 1260 | 11·4 |
| Sommée Lormes    | eP   |       | 16·8   |      |       |        | 1280 | 11·5 |
| Campulung        | eP   |       | 18     |      |       |        | 1310 | 11·8 |
| Bagnères         | e(P) |       | 20     |      |       |        | 1235 | 11·1 |
| Ciné             | iP   |       | 21     |      |       |        | 1320 | 11·9 |
| Garchy           | iP   |       | 21·1D  |      |       |        | 1325 | 11·9 |
| Erlangen         | eP   |       | 22·6D  |      |       |        | 1320 | 11·9 |
| Pruhonice        | eip  |       | 24     |      |       |        | 1345 | 12·1 |
| Moxa             | eP   |       | 33·5   |      |       |        | 1420 | 12·8 |
| Niedzica         | eP   |       | 34     | ePP  | 51    | 41     | 1405 | 12·6 |
| Oujgorod         | eP   |       | 35     |      |       |        | 1405 | 12·6 |
| Vrincioaia       | P    |       | 39     |      |       |        | 1430 | 12·9 |
| Monaco           | eS   |       | 39·1   | i    |       | 41·0   | 805  | 7·2  |
| Foczani          | P    |       | 41     |      |       |        | 1455 | 13·1 |
| Toledo           | eP   |       | 43·5   | L    | 54    | 30     | 1500 | 13·5 |
| Collm            | eP   |       | 44     | e(S) | 55    | 20     | 1490 | 13·4 |
| Krakow           | e(P) |       | 49     | eSS  | 54    | 37     | 1455 | 13·1 |
| Bensberg         | ePP  |       | 57     |      |       |        | 1520 | 13·7 |
| Lvov             | ePP  | 52    | 00     | M    | 59·0  | -      | 1585 | 14·3 |
| Iasy             | PP   |       | 03     |      |       |        | 1570 | 14·1 |
| Nichinev         | eP   |       | 03     |      |       |        | 1640 | 14·8 |
| Ifrane           | P    |       | 10     | eiM  | 52    | 36     | 1710 | 15·4 |
| Tamanrasset      | eP   |       | 21     |      |       |        | 1825 | 16·4 |
| Helwan           | eP   |       | 33     | M    | 16    | 00·5 - | 1910 | 17·2 |
| Averroes         | eP   |       | 35     |      |       |        | 1920 | 17·3 |
| Ksara            | iP   |       | 57     |      |       |        | 2100 | 18·9 |
| Göteborg         | iP   | 53    | 02·6   |      |       |        | 2205 | 19·8 |
| Uppsala          | iP   |       | 25·4   |      |       |        | 2455 | 22·1 |
| Uddeholm         | iP   |       | 27·9   |      |       |        | 2470 | 22·2 |

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|                |     |                    |      |            |       |       |
|----------------|-----|--------------------|------|------------|-------|-------|
| Lillehammer    | iP  | 15 53 37.1         |      |            | 2580  | 23.2  |
| Bakouriani     | eP  | 42                 |      |            | 2625  | 23.6  |
| Nurmi jaerwi   | eP  | 42                 | eS   | 15 57 52   | 2645  | 23.8  |
| Poulkovo       | eP  | 51                 | eS   | 58 16      | 2720  | 24.5  |
| Skalstugan     | iP  | 54 00.6            |      |            | 2855  | 25.7  |
| Kirovabad      | eP  | 03                 |      |            | 2865  | 25.8  |
| Uméa           | iP  | 06.5               | iScS | 16 05 03   | 2820  | 26.3  |
| Tabriz         | eP  | 07                 |      |            | 2900  | 26.1  |
| Kermanshah     | eP  | 19                 |      |            | 3065  | 27.6  |
| Kajaani        | eP  | 22                 |      |            | 3070  | 27.6  |
| Oulu           | eP  | 24                 |      |            | 3140  | 28.2  |
| Kiruna         | iP  | 40.9               |      |            | 3355  | 30.2  |
| Sodankylä      | eP  | 43                 |      |            | 3390  | 30.5  |
| Chiraz         | eIP | 55 12              |      |            | 37 55 | 33.8  |
| Bangui         | iP  | 13.7 <sup>D</sup>  | iPP  | 15 56 11.4 | 37 55 | 33.8  |
| Lamto          | P   | 27.5               |      |            | 3955  | 35.6  |
| Sverdlovsk     | eP  | 33                 |      |            | 4045  | 36.4  |
| Garm           | eP  | 56 40              |      |            | 49 10 | 44.2  |
| Quetta         | eP  | 45.3               |      |            | 4980  | 44.8  |
| Frounze        | eP  | 56                 |      |            | 5135  | 46.2  |
| Karoi          | iP  | 58 14 <sup>D</sup> |      |            | 6290  | 56.6  |
| Bulawayo       | eP  | 36 <sup>D</sup>    |      |            | 6615  | 59.5  |
| Tiksi          | eP  | 48                 |      |            | 6875  | 61.9  |
| Bodajbo        | eP  | 59 04.5            |      |            | 7130  | 64.2  |
| Barrow         | eP  | 48.3               |      |            | 7870  | 70.8  |
| Cumberland Pl. | eP  | 16 00 16.6         |      |            | 8345  | 75.1  |
| Hungry Horse   | eP  | 50.6               |      |            | 9120  | 82.1  |
| Bozeman SSS    | eP  | 56.0               |      |            | 9230  | 83.1  |
| Butte          | eP  | 57.2               |      |            | 9245  | 83.1  |
| Wichita M.     | eP  | 01 01.2            |      |            | 9320  | 83.9  |
| Golden         | eP  | 05.0               |      |            | 9370  | 84.3  |
| Uinta Basin    | eP  | 10.6               | e    | 16 01 15.8 | 9570  | 86.1  |
| Blue M.        | dP  | 11.7               | e    | 18.8       | 9580  | 86.2  |
| Dugway         | dP  | 18.7               |      |            | 9755  | 87.8  |
| Eureka         | eP  | 32.5               |      |            | 9990  | 89.9  |
| Tonto Forest   | eP  | 36.6               |      |            | 10170 | 91.5  |
| South Pole     | PKP | 07 36.7            |      |            | 14190 | 127.7 |
| Canberra       | PKP | 08 07.0            |      |            | 18090 | 144.8 |

inscrit à Rabat - Hermanus - Lomé - M'Bour - Praha - Krakow -  
 Warszawa - Bucaresti - Timisoara - Padova - Raciborz -  
 Tortosa - Pavia - Istanbul UTI - Irkoutsk.

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Nouvelles Hébrides (Ile Tanna)

18° 1/2 S ; 169° E ; H = 16h.44<sup>mn</sup>44s. (Nouméa)

|           |     |                         |    |          |
|-----------|-----|-------------------------|----|----------|
| Port Vila | iP  | 16 45 08.2 <sup>C</sup> | iS | 16 45 27 |
| Ouanaham  | iP  | 24.9 <sup>D</sup>       | iS | 44.5     |
| Nouméa    | eIP | 48.3                    | iS | 46 38    |

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Mer Méditerranée , au Sud de la Grèce.

36°6 N ; 21°9 E ; H = 17h.03<sup>min</sup>03s. ; M<sub>0</sub> = 3.5(Athènes)

|           |     |            |       |            |     |     |
|-----------|-----|------------|-------|------------|-----|-----|
| Valsamata | ePn | 17 03 38.0 | ei Sg | 17 04 10.0 | 220 | 2.0 |
| Athènes   | ePn | 38.2       |       |            | 220 | 2.0 |
| Vamos     | ePn | 40.1       | ei Sn | 08.0       | 240 | 2.2 |

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Iles aux Renards, Aléoutiennes

52°7 N ; 171°2 W ; h = 34<sup>km</sup> ; H = 17h.43<sup>min</sup>10.0s. (CGS)  
 52°5 N ; 171°2 W ; H = 17h.43<sup>min</sup>08s. (URSS)

Ressenti à Nikolski.

M<sub>0</sub> = 6.3(URSS); 6.2(Caracas - Roma); 6 1/4(Pasadena - Palisades);  
 6 - 6 1/4(Golden); 6.0(Eureka); 5.9(Port Moresby - Uppsala -  
 Kiruna - Frobisher); 5.8(La Palma); 5.7(Kevo - M. Tsukuba);  
 5.6(Wichita M. - College - Longmire - Blue M.); 5.5(Berkeley -  
 CGS - Bozeman SSS - Dugway - Tucson - Albuquerque - Stuttgart);  
 5.4(Bensberg - Tonto Forest); 5.3(Cumberland Pl.);  
 5.1(Kajaani - Golden); 4.6(North Pole).

|                 |    |                      |    |            |      |      |
|-----------------|----|----------------------|----|------------|------|------|
| Adak            | iP | 17 44 01.8           | iS | 17 44 46.5 | 330  | 3.4  |
| Big Mountain    | eP | 45 49.2              |    |            | 1230 | 11.1 |
| Sparrevohn      | eP | 46 00.0              |    |            | 1320 | 11.9 |
| Palmer          | eP | 40.8                 |    |            | 1645 | 14.8 |
| Mt. Sheep Creek | eP | 50.0                 |    |            | 1745 | 15.7 |
| Tanana          | eP | 57.2                 |    |            | 1770 | 15.9 |
| College         | eP | 47 07.0              | eS | 50 20.0    | 1900 | 17.1 |
| Gilmore Creek   | eP | 09.6                 |    |            | 1910 | 17.2 |
| Petropavlovsk   | iP | 21 <sup>D</sup>      |    |            | 2015 | 18.2 |
| Barrow          | eP | 39.2                 |    |            | 2185 | 19.7 |
| Severo Kourilsk | eP | 45                   | eS | 51 32      | 2255 | 20.3 |
| Sitka           | eP | 51.5                 | eS | 44.0       | 2320 | 20.9 |
| Magadan         | iP | 48 03 <sup>D</sup>   |    |            | 2445 | 22.0 |
| Coppermine      | eP | 49 19.7 <sup>D</sup> |    |            | 3370 | 30.3 |
| North Pole      | eP | 23.8                 |    |            | 3400 | 30.6 |
| Tumwater        | iP | 28.6                 |    |            | 3470 | 31.2 |
| Seattle         | iP | 30.3                 |    |            | 3470 | 31.2 |
| Tiksi           | iP | 34 <sup>D</sup>      |    |            | 3540 | 31.9 |
| Yakoutsk        | iP | 34 <sup>D</sup>      |    |            | 3565 | 33.1 |
| Longmire        | iP | 36.5                 | e  | 49 54.8    | 3555 | 32.0 |
| Corvallis       | eP | 37.5                 |    |            | 3580 | 32.2 |
| Kipapa          | eP | 43.0                 |    |            | 3655 | 32.9 |
| Honolulu        | eP | 44.5                 |    |            | 3670 | 33.0 |
| Newport         | eP | 51.0                 | i  | 50 03.0    | 3780 | 34.0 |
| Nordman         | iP | 51.8                 | i  | 03.0       | 3770 | 33.9 |
| Edmonton        | iP | 52.0                 |    |            | 3780 | 34.0 |
| Spokane         | iP | 53.7 <sup>D</sup>    |    |            | 3790 | 34.1 |



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|                 |    |       |       |      |       |      |      |      |
|-----------------|----|-------|-------|------|-------|------|------|------|
| Hawai Volc.Obs. | eP | 17 50 | 06.0  | e    | 17 59 | 31.0 | 3945 | 35.5 |
| Blue M.         | eP |       | 06.3  |      |       |      | 3955 | 35.6 |
| Mineral         | eP |       | 06.7D |      |       |      | 3955 | 35.6 |
| Hungry Horse    | P  |       | 07.4D | eS   | 55    | 47.4 | 3980 | 35.8 |
| Oroville        | iP |       | 10.5  | eL   | 18 00 | 00.0 | 4020 | 36.2 |
| Resolute        | eP |       | 14.0  |      |       |      | 4055 | 36.5 |
| Berkeley        | eP |       | 17.9D | e(S) | 17 56 | 12.0 | 4090 | 36.8 |
| Mt. Hamilton    | eP |       | 22.0D | e    | 50    | 27.8 | 4170 | 37.5 |
| Mt. Tsukuba     | eP |       | 23.0  | e    |       | 28.5 | 4180 | 37.6 |
| Bitte           | eP |       | 24.7  | eS   | 56    | 24.1 | 4200 | 37.8 |
| Jamestown       | eP |       | 25.6D | i    | 50    | 35.9 | 4200 | 37.8 |
| San Luis Dam    | iP |       | 28.2  | iS   | 56    | 28.5 | 4210 | 37.9 |
| Dodaira         | eP |       | 29.1  |      |       |      | 4255 | 38.3 |
| Vladivostok     | eP |       | 30    |      |       |      | 4285 | 38.4 |
| Matsushiro      | iP |       | 31.0  | S    |       | 24.  | 4290 | 38.6 |
| Bozeman SSS     | iP |       | 31.0D | iS   |       | 13.0 | 4290 | 38.6 |
| Stone Canyon    | eP |       | 32.5  |      |       |      | 4245 | 38.2 |
| Priest          | eP |       | 34.5D |      |       |      | 4320 | 38.9 |
| Eureka          | eP |       | 39.8  | iS   |       | 34.5 | 4400 | 39.6 |
| Salt Lake City  | eP |       | 49.5  | eS   | 57    | 03.5 | 4590 | 41.3 |
| Bodajbo         | iP |       | 49.5  |      |       |      | 4535 | 40.8 |
| Dugway          | eP |       | 51.2  |      |       |      | 4555 | 41.0 |
| Abuyama         | eP |       | 55.1  |      |       |      | 4595 | 41.4 |
| Pasadena        | iP |       | 57    | iS   |       | 09   | 4630 | 41.7 |
| Oishiyama       | eP |       | 59.4  |      |       |      | 4670 | 42.0 |
| Wakaura         | eP | 51    | 00.0  |      |       |      | 4670 | 42.0 |
| Flaming Gorge   | iP |       | 04.4  | eScP | 56    | 46.5 | 4745 | 42.7 |
| Uinta Basin     | eP |       | 07.2  | eS   | 57    | 28   | 4765 | 42.9 |
| Glen Canyon     | eP |       | 14.2  | eScP | 56    | 52.0 | 4870 | 43.8 |
| Kheis           | eP |       | 16    | eS   | 57    | 51   | 4905 | 44.1 |
| Station Nord    | eP |       | 25    |      |       |      | 5020 | 45.2 |
| Flagstaff       | iP |       | 28.8  | e    | 18 04 | 35.0 | 4990 | 44.9 |
| Tonto Forest    | eP |       | 30.5  | eS   | 17 58 | 21.4 | 5090 | 45.8 |
| Golden          | eP |       | 30.7  | eS   |       | 16.0 | 5090 | 45.8 |
| Tucson          | iP |       | 43.0C | e    | 51    | 50.0 | 5280 | 47.5 |
| Irkoutsk        | eP |       | 49    |      |       |      | 5395 | 48.6 |
| Albuquerque     | eP |       | 49.5  | e    |       | 58.0 | 5370 | 48.3 |
| Kings' Bay      | eP |       | 51    |      |       |      | 5400 | 48.6 |
| Frobisher       | eP |       | 55.8D |      |       |      | 5490 | 49.4 |
| Qulan Bator     | iP | 52    | 02    |      |       |      | 5540 | 49.8 |
| Dubuque         | P  |       | 10.3  |      |       |      | 5830 | 52.5 |
| Manhattan       | eP |       | 12.0  |      |       |      | 5700 | 51.3 |
| Giam            | eP |       | 12.0  | eS   | 59    | 40.0 | 5810 | 52.3 |
| Lubbock         | eP |       | 17.0  | eS   |       | 42.0 | 5780 | 52.0 |
| Lawrence        | eP |       | 17.6  |      |       |      | 5810 | 52.3 |
| Wichita M.      | eP |       | 25.4  | eS   |       | 56.6 | 5910 | 53.2 |
| Tulsa           | iP |       | 32.0C | S    | 18 00 | 08.0 | 6000 | 54.0 |
| Ann Arbor       | eP |       | 50.0  |      |       |      | 6280 | 58.5 |
| Esen Boulak     | eP |       | 51    |      |       |      | 6260 | 58.4 |
| Aupu            | iP |       | 52.0D |      | 05    | 22.0 | 6300 | 58.7 |
| Kevo            | iP | 53    | 00.4  | eS   | 00    | 52   | 6345 | 57.1 |
| Ottawa          | eP |       | 03.0  |      |       |      | 6500 | 68.5 |

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|                       |    |        |                     |    |            |      |      |
|-----------------------|----|--------|---------------------|----|------------|------|------|
| Kiruna                | 1P | 17 53  | 10·0 <sup>C</sup>   | 1S | 18 01 17   | 6600 | 59·4 |
| Brébeuf               | eP |        | 10·0                |    |            | 6610 | 59·5 |
| Sodankylä             | eP |        | 11                  |    |            | 6610 | 59·5 |
| Cumberland Pl.        | eP |        | 14·9                |    |            | 6690 | 60·2 |
| Morgantown            | 1P |        | 17·8                |    |            | 6710 | 60·4 |
| Sempalatinsk          | P  |        | 21·1                |    |            | 6770 | 60·9 |
| Berlin                | 1P |        | 23·3                |    |            | 6810 | 61·3 |
| Oulu                  | eP |        | 26                  |    |            | 6870 | 61·8 |
| Washington Univ. Cen. | eP |        | 30·0                |    |            | 6920 | 62·3 |
| Kajaani               | 1P |        | 31·5 <sup>D</sup>   |    |            | 6955 | 62·6 |
| Palisades             | 1P |        | 33·5                | 1S | 02 00·0    | 6955 | 62·6 |
| Weston                | 1P |        | 34·4                | eS | 04·0       | 6990 | 62·9 |
| Sverdlovsk            | 1P |        | 35                  | S  | 05         | 6985 | 62·9 |
| Hong Kong             | 1P |        | 37·0                | e  | 10·0       | 7030 | 63·3 |
| Umeå                  | 1P |        | 37·8                | 1S | 02         | 7055 | 63·5 |
| Baguio                | eP |        | 39·0                | 1S | 16·0       | 7100 | 63·9 |
| Nat. Univ. Mexico     | 1P |        | 45                  | 1S | 18         | 7110 | 64·0 |
| Tacubaya              | 1P |        | 46                  |    |            | 7105 | 63·9 |
| Skalstugan            | eP |        | 47                  |    |            | 7115 | 64·0 |
| Afihamalu             | eP |        | 56                  | eS | 51         | 7380 | 66·4 |
| Nurmijaerwi           | 1P |        | 57·0                | eS | 48         | 7380 | 66·4 |
| Honiara               | eP | 54(02) |                     | eS | 46         | 7490 | 66·6 |
| Uddeholm              | 1P |        | 03·0                |    |            | 7500 | 67·5 |
| Uppsala               | eP |        | 04                  |    |            | 7500 | 67·5 |
| Davao                 | eP |        | 06·0                |    |            | 7599 | 68·3 |
| Kongsberg             | 1P |        | 11 <sup>n</sup> 1   |    |            | 7555 | 68·0 |
| Moskva                | P  |        | 16                  |    |            | 7705 | 69·3 |
| Esa'Ala               | 1P |        | 20 <sup>C</sup>     | S  | 03 23      | 7795 | 70·2 |
| Tiputa                | 1P |        | 24·0                |    |            | 7830 | 70·5 |
| Port Moresby          | eP |        | 27                  | e  | 06 46      | 7930 | 71·4 |
| Tachkent              | eP |        | 35 <sup>C</sup>     |    |            | 8085 | 72·8 |
| Papeete               | 1P |        | 35·0                |    |            | 8055 | 82·5 |
| Papenoo               | 1P |        | 35·5                |    |            | 8055 | 72·5 |
| Shillong              | eP |        | 41                  |    |            | 8230 | 74·1 |
| La Palma              | eP |        | 44·5                |    |            | 8220 | 74·0 |
| Garm                  | eP |        | 45·5                |    |            | 8250 | 74·3 |
| Douchalbé             | eP |        | 49                  |    |            | 8365 | 75·3 |
| Khorog                | eP |        | 49                  |    |            | 8330 | 75·0 |
| Samarkand             | eP |        | 51                  |    |            | 8345 | 75·1 |
| Chatra                | 1P |        | 55                  |    |            | 8415 | 75·7 |
| Koumac                | 1P |        | 57·7 <sup>(C)</sup> |    |            | 8445 | 76·0 |
| Collm                 | eP |        | 59                  | eS | 04 44      | 8430 | 76·3 |
| Chittagong            | P  |        | 59                  | S  | 46         | 8510 | 76·6 |
| Moxa                  | eP | 55 01  |                     |    |            | 8555 | 77·0 |
| Nouméa                | 1P |        | 02·9 <sup>(D)</sup> |    |            | 8575 | 77·2 |
| Krakow                | eP |        | 03                  | eS | 04 54      | 8575 | 77·2 |
| Bensberg              | 1P |        | 03·5 <sup>D</sup>   | e  | 17 56 46·5 | 8520 | 76·7 |
| Dehra Dun             | eP |        | 04                  |    |            | 8640 | 77·8 |
| Warsaw                | P  |        | 06                  |    |            | 8645 | 77·8 |
| Erlangen              | eP |        | 06·0 <sup>C</sup>   |    |            | 8665 | 78·0 |

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|                  |     |                   |       |            |  |      |      |
|------------------|-----|-------------------|-------|------------|--|------|------|
| Praha            | eP  | 17 55 07          |       |            |  | 8610 | 77.5 |
| Lahore           | eP  | 09                |       |            |  | 8730 | 78.6 |
| Niedzica         | eP  | 09                |       |            |  | 8645 | 77.8 |
| Kasperské Hory   | eIP | 10                |       |            |  | 8770 | 78.4 |
| Oujgorod         | eP  | 10                |       |            |  | 8710 | 78.4 |
| St. Sauveur      | eP  | 12.4              |       |            |  | 8755 | 78.8 |
| Pruhonice        | eP  | 12.5              | eiS   | 18 05 01.5 |  | 8610 | 77.5 |
| New Delhi        | eP  | 13.0              | eS    | 10.0       |  | 8830 | 79.5 |
| Poti             | eP  | 13                |       |            |  |      |      |
| Folinigra        | eP  | 13.4              |       |            |  | 8730 | 78.6 |
| Bratislava       | eIP | 13.9              | ei    | 56 39.4    |  | 8805 | 79.3 |
| Kizyl Arvat      | eP  | 14                |       |            |  | 8850 | 79.6 |
| Iasy             | P   | 14                |       |            |  | 8800 | 79.2 |
| Stuttgart        | eP  | 14.1              |       |            |  | 8770 | 78.9 |
| Welschbruch      | iP  | 14.8              |       |            |  | 8805 | 79.3 |
| Strasbourg       | eP  | 16                | eS    | 05 3--     |  | 8790 | 79.1 |
| Gorron           | eP  | 16.3              |       |            |  | 8770 | 78.9 |
| Wien             | eP  | 18                |       |            |  | 8805 | 79.3 |
| Champ du Feu     | eP  | 18.5              |       |            |  | 8810 | 79.3 |
| Garchy           | eP  | 18.9 <sup>D</sup> |       |            |  | 8920 | 80.3 |
| Sommée Lormes    | eIP | 19.0              |       |            |  | 8920 | 80.3 |
| Le Pertre        | eP  | 19.0              |       |            |  | 8810 | 79.3 |
| Tbilisi          | eP  | 20                |       |            |  | 8895 | 80.9 |
| St. Saulge       | eP  | 20.0              |       |            |  | 8930 | 80.4 |
| Wien Kobenzl     | eP  | 20.0              |       |            |  | 8800 | 79.2 |
| Les Buteaux      | eP  | 20.2              |       |            |  | 8955 | 80.6 |
| Haudompré        | eP  | 20.3              |       |            |  | 8850 | 79.7 |
| Budapest         | eP  | 21                |       |            |  | 8870 | 79.8 |
| Bakouriani       | eP  | 21.7              |       |            |  | 9030 | 81.3 |
| Fürstenfeldbruck | iP  | 22.0              |       |            |  | 8830 | 79.5 |
| Basel            | P   | 23                |       |            |  | 8905 | 80.1 |
| Charters Towers  | iP  | 23.5              | iS    | 05 34      |  | 9045 | 81.4 |
| Mashad           | eIP | 24.0              |       |            |  | 8990 | 80.9 |
| Ki ro vabad      | P   | 24                |       |            |  | 9055 | 81.5 |
| Vouglans         | eP  | 25                | ei    | 15 55 31.2 |  | 9025 | 81.2 |
| Trieste          | iP  | 29                | iS    | 18 05 41   |  | 9090 | 81.8 |
| Roselend         | eP  | 30                | d     | 17 51 52   |  | 9110 | 82.0 |
| Clermont         | eP  | 30                | e     | 55 51      |  | 9090 | 81.8 |
| Le Pouchou       | eP  | 30.7              |       |            |  | 9195 | 82.8 |
| Lanslevillard    | eP  | 32                | ei    | 52.6       |  | 9155 | 82.4 |
| Goris            | iP  | 32.0              |       |            |  | 9175 | 82.6 |
| Campulung        | P   | 33                |       |            |  | 9045 | 81.4 |
| Beograd          | ePn | 33.3              | e     | 18 04 54.8 |  | 9150 | 82.3 |
| La Frestale      | eP  | 33.7              |       |            |  | 9165 | 82.5 |
| Qietta           | eP  | 34.6 <sup>D</sup> | eS    | 05 53.6    |  | 9230 | 83.1 |
| Archignac        | eP  | 34.9              |       |            |  | 9160 | 82.5 |
| Tabriz           | eIP | 37                | eISKs | 06 03      |  | 9320 | 83.9 |
| Sofia            | eP  | 38.4              | eS    | 05 56.7    |  | 9350 | 84.2 |
| Balboa Heights   | eP  | 38.8              | iSKS  | 06 04.4    |  | 9330 | 84.0 |
| Téhéran          | eP  | 40                |       |            |  | 9380 | 84.4 |
| l' Aquila        | eP  | 48                | eS    | 20         |  | 9470 | 85.2 |

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|                   |                   |            |        |          |       |       |
|-------------------|-------------------|------------|--------|----------|-------|-------|
| Warramunga        | eP                | 17 55 49.5 |        |          | 9595  | 86.3  |
| Roma              | eP                | 50         | e(SKS) | 18 05 53 | 9525  | 85.7  |
| Istanbul UTI      | eP                | (52)       | eS     | 06 15    | 9445  | 85.0  |
| Brisbane          | iP                | 53         | iS     | 14       | 9530  | 85.8  |
| Lorgues           | e(P)              | 55.9--     |        |          | 9355  | 84.2  |
| La Mourre         | ei(P)             | 55.9--     |        |          | 9365  | 84.3  |
| St. Paul en Foret | e(P)              | 55.9--     |        |          | 9345  | 84.1  |
| Toledo            | iP                | 58 00      | iS     | 28       | 9680  | 87.1  |
| Shiraz            | eP                | (03)       |        |          | 9910  | 89.2  |
| Messina           | eP                | 08         |        |          | 9920  | 89.3  |
| Caracas           | iP                | 09.8D      |        |          | 10020 | 90.2  |
| Karapiro          | eP                | 13         |        |          | 10110 | 91.0  |
| Bogota            | eP                | 15.5       | e(S)   | 40.0     | 10080 | 90.7  |
| Quito             | P                 | 17.0       | S      | 07 22    | 10200 | 91.8  |
| Trinidad          | eP                | 22.3       |        |          | 10370 | 93.3  |
| Ifrane            | P                 | 27         |        |          | 10370 | 93.3  |
| Penas             | PKP               | 37.8       | SKS    | 08 26    | 12280 | 110.5 |
| La Paz            | PKP               | 38         | SKS    | 27       | 12320 | 110.9 |
| Lamto             | PKP               | 57.7       |        |          | 13345 | 120.1 |
| Bangui            | iPKP <sub>1</sub> | 02 02.8    | iPP    | 03 44.5  | 13610 | 122.5 |
| Nairobi           | PKP               | 07.5       |        |          | 13730 | 123.6 |
| South Pole        | ePKP              | 34.6       | eSKP   | 06 16.5  | 15645 | 142.6 |
| Karoi             | ePKP              | 38         |        |          | 15630 | 140.7 |
| Changalane        | PKP               | 39         |        |          | 16480 | 148.3 |
| Bilawayo          | ePKP              | 42         |        |          | 16005 | 144.1 |
| Addis Ababa       | ePP               | 53         |        |          | 12600 | 113.4 |
| Windhoek          | iPKP              | (55.0)C    |        |          | 16585 | 149.2 |
| Madras            | eS                | 43         |        |          | 10075 | 90.7  |

inscrit à Ponta Delgada - De Bilt - M'bour - Canberra -  
 Raciborz - Pavia - Tortosa - Bucuresti - Hermanus -  
 Rabat - Lvov - Port Blair - Rabaul - Bombay.

XXV. - 14 Janvier

Iles Riou-Kiou

26°8 N ; 127°9 E; h = 33km ; H = 18h.15mn46.4 (CGS)

M. = 4.7 (Uinta Basin); CGS); 4.8 (North Pole); 4.5 (Blue M.); 4.3 (Tonto Forest)

|              |    |            |   |            |      |      |
|--------------|----|------------|---|------------|------|------|
| Shiraki      | P  | 18 17 53.7 |   |            | 970  | 8.7  |
| Oishiyama    | eP | 18 04.9    |   |            | 1080 | 9.7  |
| Abuyama      | eP | 15.9       |   |            |      |      |
| Dodaira      | eP | 58.6       | e | 18 19 06.3 | 1480 | 13.3 |
| Matsushiro   | P  | 19 03      |   |            |      |      |
| Mt. Tsukuba  | eP | 05.3       |   |            | 1555 | 14.0 |
| Port Moresby | iP | 23 24.0    |   |            | 4510 | 40.6 |
| College      | eP | 26 16.0    |   |            | 7070 | 63.7 |

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|              |     |       |      |  |       |       |
|--------------|-----|-------|------|--|-------|-------|
| Mould Bay    | eP  | 18 28 | 51.0 |  | 7700  | 69.3  |
| North Pole   | eP  |       | 51.3 |  | 7700  | 69.3  |
| Kajaani      | iP  |       | 58.4 |  |       |       |
| Oulu         | iP  | 27    | 01.0 |  |       |       |
| Rsolute      | eP  |       | 28.0 |  | 8330  | 75.0  |
| Hungry Horse | eP  | 28    | 30.3 |  | 9655  | 86.9  |
| Blue M.      | eP  |       | 31.2 |  | 9890  | 87.2  |
| Oroville     | iP  |       | 33.0 |  | 9730  | 87.6  |
| Uinta Basin  | eP  | 29    | 05.1 |  | 10500 | 94.5  |
| Tonto Forest | eP  |       | 19.2 |  | 10810 | 97.3  |
| Lamto        | PKP | 34    | 42.4 |  | 13755 | 123.8 |

XXVI. 14 janvier  
Prés de la cote de Chiapas (Mexique)

$14^{\circ}4'N, 92^{\circ}2'W$   $h = 33km$   $H = 18^{h}56^{mn}41^s$  (CGS)

M = 4.5 (Wichita M), 4.4 ((Eureka), 4.2 (CGS, Blue M), 4.1 (Cumberland Pl, Uinta Basin), 3.9 (Albuquerque, Tonto Forest).

|                |    |       |      |           |         |      |      |
|----------------|----|-------|------|-----------|---------|------|------|
| Wichita M.     | eP | 19 01 | 24.1 | ePP 19 01 | 52.7    | 2345 | 21.1 |
| Lubbock        | eP |       | 25.5 |           |         | 2330 | 21.0 |
| Cumberland pl. | eP |       | 34.2 |           |         | 2445 | 22.0 |
| Albuquerque    | eP |       | 54.0 |           |         | 2690 | 24.2 |
| Tonto Forest   | eP | 02    | 16.1 | ePP 19 02 | 52.2    | 2920 | 28.3 |
| Uinta Basin    | eP |       | 49.3 | e         | 03 06.8 | 3330 | 30.0 |
| Eureka         | iP | 03    | 12.8 |           |         | 3620 | 32.6 |
| Blue M.        | eP |       | 49.2 |           |         | 4120 | 37.1 |
| Nordman        | eP | 04    | 12.0 |           |         | 4420 | 39.8 |

inscrit à Golden.

XXVII. 14 janvier  
Mexique

$15^{\circ}51'N, 98^{\circ}42'W$   $H = 18^{h}57^{mn}42^s$  (Tacubaya)

|                   |    |       |      |  |  |     |     |
|-------------------|----|-------|------|--|--|-----|-----|
| Nat.Uni.Mexico    | iP | 18 58 | 37   |  |  | 380 | 3.4 |
| Presa Infiernillo | iP |       | 41.9 |  |  | 423 | 3.8 |
| Tacubaya          | iS | 59    | 18   |  |  | 380 | 3.4 |
| Vera Cruz         | iS |       | 38   |  |  | 450 | 4.0 |
| Leon              | i  | 19 00 | 04.3 |  |  | 650 | 5.8 |

XXVIII. 14 janvier  
Région de la Nouvelle Bretagne

$H = 20^{h}1(1)^{mn}52^s$   $M = 4.8$  (Rabaul)

|                |    |       |        |    |       |    |  |
|----------------|----|-------|--------|----|-------|----|--|
| Keravat        | iP | 20 12 | 16.5D  | iS | 20 12 | 40 |  |
| Sulphur        | iP |       | (18.0) |    |       |    |  |
| Rabalakaia     | iP |       | 18.2D  |    |       |    |  |
| Wanliss Street | iP |       | 18.2   |    |       |    |  |
| Rabaul         | iP |       | 18.8   | iS |       | 39 |  |

XXIX. 14 janvier  
Région de la Nouvelle Bretagne

$H = 21^{h}51^{mn}39^s$   $M = 4.5$  (Rabaul)

|         |    |       |       |    |       |    |  |
|---------|----|-------|-------|----|-------|----|--|
| Keravat | iP | 21 52 | 12.5D | iS | 21 52 | 39 |  |
|---------|----|-------|-------|----|-------|----|--|

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|                |    |            |    |            |
|----------------|----|------------|----|------------|
| Wanliss Street | iP | 21 52 13.0 |    |            |
| Rabaul         | iP | 13.8       | 1S | 21 52 39.6 |
| Port Moresby   | eP | 53 30      | eS | 54 55      |
| South Pole     | eP | 22 04 15.1 |    |            |

XXX. 14 Janvier  
Mer des Moluques

|                 |          |            |  |             |
|-----------------|----------|------------|--|-------------|
| 2° 55'          | 125° 6'E | H          | = 22 <sup>h</sup> 21 <sup>mn</sup> 26 <sup>s</sup> ( URSS) |             |
| Warramunga      | eP       | 22 26 30.5 | e  | 22 30 33    |
| Port Moresby    | eP       | 37         |  |             |
| Meekatharra     | iP       | 27 26.2C   |  |             |
| Charters Towers | eP       | 37         |  |             |
| Kalgoorlie      | iP       | 56.9       |  |             |
| Mundaring       | eP       | 28 16.3C   |  |             |
| Matsushiro      | eP       | 25         |  |             |
| Adelaide        | iP       | 47.5D      |  |             |
| Brisbane        | iP       | 48         |  |             |
| Shillong        | iP       | 59D        |  |             |
| Chatra          | iP       | 29 35C     |  |             |
| New Delhi       | eP       | 30 40      | i  | 22 31 48.6  |
| Dehra Dun       | eP       | 42         |  |             |
| Poona           | eP       | 42         |  |             |
| Bodajbo         | iP       | 31 03.5D   |  | 6210 55.9   |
| Talgar          | iP       | 25D        |  | 6555 59.0   |
| Yakoutsk        | iP       | 28D        |  | 6600 58.4   |
| Semipalatinsk   | P        | 33.7       |  | 6790 61.1   |
| Garm            | eP       | 44         |  | 6880 61.9   |
| Qetta           | eP       | 44.5C      |  |             |
| Tiksi           | iP       | 32 29D     |  | 7670 69.0   |
| Tabriz          | eP       | 33 34      |  |             |
| Goris           | eP       | 35         |  | 8900 80.1   |
| Moskva          | eP       | 34 08      |  | 9645 86.8   |
| Nairobi         | iP       | 19.8       |  |             |
| Kevo            | iP       | 26.0       |  |             |
| Kajaani         | iP       | 27.8       |  |             |
| Sodankylä       | iP       | 28.0D      |  | 10 120 91.1 |
| Oulu            | iP       | 30.8       |  |             |
| South Pole      | eP       | 33.0       |  |             |
| Kiruna          | iP       | 33.0       |  |             |
| Nurmijaervi     | iP       | 39.0       |  | 10355 93.2  |
| Umeå            | iP       | 42.8       |  |             |
| Karoi           | iP       | 52C        |  |             |
| Oujgorod        | iP       | 56C        |  | 10770 96.9  |
| Niedzica        | eip      | 35 00.3D   |  |             |
| Bulawayo        | eP       | 05         |  |             |
| Udöholm         | iP       | 36 02.2    |  |             |

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Sicile

H = 23<sup>h</sup>19<sup>mn</sup>20<sup>s</sup> (ING)

M = 3.96 (Roma)

|                  |     |       |      |    |       |      |     |     |
|------------------|-----|-------|------|----|-------|------|-----|-----|
| Messina          | epn | 23 20 | 03.5 | IS | 23 20 | 33.0 | 240 | 2.2 |
| Messina ING      | es  |       | (07) |    |       |      |     |     |
| Reggio Calabria  | e   |       | 43.4 |    |       |      |     |     |
| Roma             | e   | 21    | 01   |    |       |      |     |     |
| St Paul en Foret | eip |       | 17.4 |    |       |      |     |     |

I. 15 Janvier  
Données Insuffisantes

|                 |      |       |       |
|-----------------|------|-------|-------|
| Meekatharra     | 1P   | 00 22 | 57.5D |
| Charters Towers | i(P) | 24    | 11.1  |
| Warramunga      | ep   |       | 20    |
| Brisbane        | e(P) | 27    | 04    |

II. 15 Janvier  
Sicile

37°9N, 13°1E

h = 33<sup>km</sup>

H = 01<sup>h</sup>33<sup>mn</sup>02.7S (CGS)

37°8N, 13°2E

H = 01<sup>h</sup>33<sup>mn</sup>02S (BCIS)

37°8N, 13°0E

H = 01<sup>h</sup>33<sup>mn</sup>02S (URSS)

H = 01<sup>h</sup>32<sup>mn</sup>56S (ING)

M = 6.0 (Stuttgart), 5.7 (Nurmijaervi, Roma, Strasbourg), 5.6 (Praha, Bangui), 5.5 (Pruhonice, Uppsala, Kiruna, Lvov), 5.4 (URSS), 5.1 (CGS, Kajaani, Wichita M, Blue M, Tonto Forest), 5.0 (Longmire, Cumberland Pl, Dugway), 4.9 (Bozeman SSS, Breka, Kobenhavn), 4.2 (Golden).

|                  |       |       |      |      |       |      |          |
|------------------|-------|-------|------|------|-------|------|----------|
| Messina          | 1Pn   | 01 33 | 35.4 |      |       | 220  | 2.0      |
| Reggio Calabria  | 1Pn   |       | 35.7 | ISg  | 01 34 | 11.2 | 225 2.0  |
| Messina ING      | 1Pn   |       | 35.9 | ISn  |       | 01.5 | 220 2.0  |
| Roma             | 1P    | 34    | 03.2 | IS   |       | 50.7 | 445 4.0  |
| Taranto          | epn   |       | 04.5 | 1'Sn |       | 59.5 | 460 4.1  |
| L'Aquila         | 1Pn   |       | 12   | 1'Sn | 35    | 04   | 495 4.5  |
| Sétif            | ep    |       | 33.5 |      |       |      | 710 6.4  |
| La Mourre        | eip   |       | 47.2 |      |       |      | 825 7.4  |
| Monaco           | 1Pn   |       | 47.2 | ISn  | 36    | 09.5 | 805 7.2  |
| St Paul en Foret | eip   |       | 48.7 |      |       |      | 830 7.5  |
| Bologna          | e     |       | 50   | e    |       | 08   | 745 6.7  |
| Lorgues          | eip   |       | 50.2 |      |       |      | 840 7.5  |
| Skopje           | 1Pn   |       | 52.7 |      |       |      | 845 7.6  |
| Isola            | 1P    |       | 54.8 |      |       |      | 865 7.8  |
| Cadarache        | ep    |       | 56.5 | i    |       | 25.5 | 89.0 8.0 |
| Alger            | ep    |       | 57C  | i    |       | 28   | 8 85 8.1 |
| Trieste          | epn   |       | 58   | IS   |       | 20   | 865 7.8  |
| Yalsamata        | e(P)  |       | 59.4 |      |       |      | 660 5.9  |
| Ljubljana        | epn   | 35    | 00   | esn  |       | 48   | 910 8.2  |
| Pavia            | e(Pn) |       | 03   | e    | 37    | 00   | 870 7.8  |
| Athènes          | ep    |       | 03.5 |      |       |      | 935 8.4  |
| Zagreb           | ep    |       | 07.9 | e    | 35    | 20.2 | 910 8.3  |
| Lanslevillard    | ep    |       | 08   | i.   |       | 12.9 | 970 8.7  |

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|                  |        |       |       |          |            |      |      |
|------------------|--------|-------|-------|----------|------------|------|------|
| Beograd          | ePn    | 01 35 | 11·6D | eSn      | 01 37 00·0 | 980  | 8·8  |
| Sofia            | eP     |       | 15·1  | eS       | 50·7       | 1020 | 9·2  |
| Roselend         | eP     |       | 15·8  | eS       | 59         | 1015 | 9·2  |
| Monteynard       | eP     |       | 16    |          |            | 1000 | 9·0  |
| Vamos            | eP     |       | 20    |          |            | 1030 | 9·3  |
| Basel            | P      |       | 25    |          |            | 1160 | 10·5 |
| Tortosa          | iP     |       | 29    | iS       | 28         | 1130 | 10·2 |
| Vouglans         | eip    |       | 30·2  | i        | 35 38·8    | 1125 | 10·1 |
| Paraskevi        | eP     |       | 31    |          |            | 1155 | 10·4 |
| Welschbruch      | eP     |       | 31    | i        | 48·6       | 1255 | 11·3 |
| Timisoara        | eP     |       | 31    | eSb      | 38 12      |      |      |
| Furstenfeldbruck | eP     |       | 31    |          |            | 1145 | 10·3 |
| Ravensburg       | eP     |       | 32·5  |          |            | 1135 | 10·2 |
| Wien Kobenzl     | ePn    |       | 34    | iS       | 37 37      | 1180 | 10·6 |
| Clermont         | eP     |       | 36    | iM       | 40 18      | 1205 | 10·8 |
| Alicante         | eP     |       | 36·7  |          |            | 1190 | 10·7 |
| Bratislava       | eip    |       | 37·5  | i'       | 35 39·4    | 1185 | 10·7 |
| Wien             | ePn    |       | 38    | i (SgSg) | 39 04      | 1180 | 10·6 |
| Budapest         | eP     |       | 38    |          |            | 1165 | 10·5 |
| Bagnares         | eip    |       | 40    |          |            | 1235 | 11·1 |
| Srobarova        | zi (P) |       | 41·6  |          |            | 1180 | 10·6 |
| Haudompré        | eip    |       | 42·2  |          |            | 1250 | 11·2 |
| Kasperské Hory   | P      |       | 43    |          |            | 1245 | 11·2 |
| Les Buteaux      | eip    |       | 43·3  |          |            | 1255 | 11·3 |
| Stuttgart        | eP     |       | 43·9  |          |            | 1245 | 11·2 |
| Bühlerhöhe       | P      |       | 44    |          |            | 1260 | 11·3 |
| Champ du Feu     | eip    |       | 44·1  |          |            | 1255 | 11·3 |
| Strasbourg       | eip    |       | 45·5  | eILR     | 38 18      | 1260 | 11·4 |
| St Saulge        | eP     |       | 46·4  |          |            | 1290 | 11·6 |
| Sommée Lormes    | eP     |       | 47·1  |          |            | 1290 | 11·6 |
| Campulung        | eP     |       | 50·5  |          |            | 1300 | 11·7 |
| Toulx Ste Croix  | eip    |       | 50·4  |          |            | 1295 | 11·6 |
| Karlsruhe        | iP     |       | 50·D  | eL       | 39 32      | 1290 | 11·6 |
| Ciné             | iP     |       | 51    | i        | 35 53      | 1320 | 11·9 |
| Erlangen         | eP     |       | 51·2C |          |            | 1320 | 11·9 |
| Garchy           | iP     |       | 51·5  | i        | 36 02·4    | 1325 | 11·9 |
| Bucuresti        | P      |       | 52    | e        | 12         | 1305 | 11·8 |
| Rhodes           | eP     |       | 53·9  |          |            | 1350 | 12·2 |
| Prithonice       | P      |       | 55·5  |          |            | 1345 | 12·1 |
| Praha            | eP     |       | 56    |          |            | 1355 | 12·2 |
| Istanbul Uti     | iP     | 36    | 04·4  |          |            | 1400 | 12·6 |
| Moxa             | eP     |       | 04·5  |          |            | 1420 | 12·8 |
| Istanbul Kand    | eP     |       | 05·1C |          |            | 1410 | 12·7 |
| Almería          | eP     |       | 06    | M        | 41 00      | 1330 | 12·4 |
| Oujgorod         | eP     |       | 06    |          |            | 1405 | 12·6 |
| Niedzka          | eP     |       | 06D   | e (PP)   | 36 11      | 1405 | 12·6 |
| Tanus            | eP     |       | 07C   |          |            | 1415 | 12·7 |
| Raciborz         | eP     |       | 07    | eS       | 38 32      | 1415 | 12·7 |
| Vinciöala        | P      |       | 08    |          |            | 1430 | 12·9 |
| Focsani          | P      |       | 11    | e        | 52         | 1455 | 13·1 |
| Krakow           | eP     |       | 12    | ePP      | 36 24      | 1455 | 13·1 |
| Toledo           | iP     |       | 14    | iS       | 38 45      | 1500 | 13·5 |



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|             |      |          |       |          |       |      |
|-------------|------|----------|-------|----------|-------|------|
| Collm       | eP   | 01 38 15 | 1 (S) | 01 39 04 | 1490  | 13.4 |
| Jasi        | P    | 24       | e     | 38 25    | 1570  | 14.1 |
| Malaga      | iP   | 28       | eS    | 39 00    | 1555  | 14.0 |
| Mensberg    | iP   | 28.3D    |       |          | 1520  | 13.7 |
| Le Pertre   | eipP | 28.5     |       |          | 1605  | 14.5 |
| St Sauveur  | eP   | 29.4     |       |          | 1590  | 14.3 |
| Kichinev    | eP   | 30       | eS    | 16       | 1640  | 14.8 |
| Lwow        | eP   | 30       |       |          | 1585  | 14.3 |
| Gorron      | eP   | 31.1     |       |          | 1620  | 14.6 |
| Polinière   | eP   | 31.6     |       |          | 1620  | 14.6 |
| Ifrane      | eP   | 42       |       |          | 1720  | 15.5 |
| Warsawa     | eP   | 48       | ePP   | 36 53    | 17 10 | 15.4 |
| Tamanrasset | .P   | 51D      |       |          | 18 25 | 16.4 |
| Rabat       | eP   | 58       |       |          | 18 45 | 16.6 |
| Helwan      | iP   | 37 02    | 1 (S) | 40 20    | 1900  | 17.1 |
| Simferopol  | eP   | 04       |       |          | 19 15 | 17.2 |
| Averroes    | eP   | 06       |       |          | 19 20 | 17.3 |
| Kobenhavn   | .(P) | 16.5D    | S     | 30       | 1980  | 17.8 |
| Kańskrona   | iP   | 16.9     |       |          | 2040  | 18.3 |
| Jérusalem   | eP   | 26       | eS    | 51       | 2125  | 19.1 |
| Ksara       | iP   | 26       | iS    | 41 02    | 2100  | 18.9 |
| Goteborg    | iP   | 33.3C    |       |          | 2205  | 19.8 |
| Durham      | iP   | 35       | 1 (S) | 17       | 2180  | 19.6 |
| Uppsala     | iP   | 54.1     | i     | 37 55.8  | 2455  | 22.1 |
| Uddeholm    | iP   | 57.3     |       |          | 2470  | 22.2 |
| Lillehammer | iP   | 38 07.6  |       |          | 2580  | 23.2 |
| Poti        | eP   | 10       |       |          |       |      |
| Bakouriani  | eP   | 12.2     | eS    | 42 20    | 2625  | 23.6 |
| Nurmijaervi | iP   | 12.9     | eS    | 24       | 2635  | 23.7 |
| Poulkovo    | eP   | 20C      |       |          | 27 20 | 24.5 |
| Skalstugan  | iP   | 30.5     |       |          | 28 55 | 25.7 |
| Kirovabad   | P    | 33       |       |          | 2865  | 25.8 |
| Goris       | eP   | 34       |       |          | 2880  | 25.9 |
| Uméa        | iP   | 36.5     | iS    | 43 10    | 2920  | 26.3 |
| Tabriz      | eP   | 37       | e     | 16       | 2900  | 26.1 |
| Kajaani     | iP   | 49.5     | i     | 39 0 97  | 3065  | 27.6 |
| Kermanshah  | eP   | 50       |       |          | 3065  | 27.6 |
| Oulu        | iP   | 53.7     |       |          | 3140  | 28.2 |
| Kiruna      | iP   | 39 10.6  |       |          |       |      |
| Sodankylae  | eP   | 13       |       |          | 3390  | 30.5 |
| Téhéran     | eP   | 16       |       |          | 3400  | 30.6 |
| Adatity     | eP   | 28       |       |          | 3535  | 31.8 |
| Kevo        | iP   | 35.2     | eS    | 44 48    | 3635  | 32.7 |
| Chiraz      | P    | 42.2     | eL    | 45 04    | 37 55 | 33.8 |
| Kizyl Arvat | iP   | 43       |       |          | 37 30 | 33.6 |
| Bangui      | iP   | 43.8     |       |          | 37 55 | 33.8 |
| Lamtoc      | iP   | 57.4     |       |          | 3955  | 35.6 |
| Sverdlovsk  | eP   | 40 05    |       |          | 4045  | 36.4 |
| Mashad      | eP   | 10       |       |          | 4090  | 36.8 |
| Kap Tobin   | eP   | 15       |       |          | 4160  | 37.4 |
| Samarkand   | eP   | 51       |       |          | 4615  | 41.5 |
| Douchambé   | eP   | 41 01    |       |          |       |      |
| Quetta      | eP   | 15.2D    | eS    | 47 44    | 4975  | 44.8 |

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|                   |     |       |      |       |          |       |       |
|-------------------|-----|-------|------|-------|----------|-------|-------|
| Nairobi           | EP  | 01 41 | 19.2 |       |          | 4970  | 44.7  |
| Khorog            | EP  |       | 23   |       |          |       |       |
| Frounze           | EP  |       | 28   |       |          | 5135  | 46.2  |
| Warsak            | EP  |       | 39   |       |          |       |       |
| Talgar            | EP  |       | 39   | ES    | 01 48 28 | 5340  | 48.0  |
| Semipalatinsk     | EP  |       | 39.8 |       |          | 5355  | 48.2  |
| Frobisher         | EP  | 42    | 18   |       |          | 5910  | 53.2  |
| New Delhi         | EP  |       | 20   |       |          | 5935  | 53.4  |
| Karoi             | EP  |       | 44   |       |          | 6290  | 58.6  |
| Resolute          | EP  |       | 56   |       |          | 6480  | 58.3  |
| Bilawayo          | IP  | 43    | 09D  |       |          | 6615  | 59.5  |
| Tiksi             | IP  |       | 19D  |       |          | 6875  | 61.9  |
| Brébeuf           | IP  |       | 21   |       |          | 6910  | 62.2  |
| Boğajbo           | IP  |       | 33   |       |          | 7130  | 64.2  |
| Coppermine        | EP  |       | 57.5 |       |          | 7510  | 67.6  |
| Yakoutsk          | IP  | 44    | 00C  |       |          | 8570  | 68.1  |
| Barrow            | EP  |       | 17.6 |       |          | 7665  | 70.8  |
| Cumberland Pl     | EP  |       | 44.6 |       |          | 8345  | 75.1  |
| Gilmore Creek     | EP  |       | 47   |       |          | 8480  | 76.3  |
| Magadan           | EP  |       | 55   |       |          | 8535  | 76.8  |
| College           | EP  |       | 55   |       |          | 8490  | 76.4  |
| Edmonton          | EP  |       | 59   |       |          | 8680  | 78.1  |
| Manhattan         | EP  | 45    | 09   |       |          | 8855  | 79.7  |
| Tulsa             | EP  |       | 17   |       |          | 9045  | 81.4  |
| Hunry Horse       | EP  |       | 20.6 |       |          | 9120  | 82.1  |
| Butte             | EP  |       | 27.4 |       |          | 9255  | 83.3  |
| Bozeman SSS       | EP  |       | 27.5 |       |          | 9235  | 83.1  |
| Newport           | EP  |       | 28   |       |          | 9280  | 83.5  |
| Nordman           | EP  |       | 30   |       |          | 9235  | 83.1  |
| Wichita M.        | EP  |       | 30.3 | ES    | 01 55 58 | 9320  | 83.9  |
| Golden            | EP  |       | 32.5 |       |          | 9380  | 84.4  |
| Yoljno Sakhalinsk | IP  |       | 34   |       |          |       |       |
| Flaming Gorge     | EP  |       | 33.8 |       |          | 9510  | 85.6  |
| Blue M.           | EP  |       | 40.9 | ES    | 56 12    | 9590  | 86.3  |
| Salt Lake City    | EP  |       | 45   |       |          | 9655  | 86.9  |
| Longmire          | EP  |       | 46   |       |          | 9610  | 86.5  |
| Digway            | EP  |       | 49.2 |       |          | 9755  | 87.9  |
| Albuquerque       | EP  |       | 52.2 |       |          | 9820  | 88.4  |
| Co chabamba       | EP  |       | 59.2 |       |          | 10260 | 92.3  |
| Eureka            | IP  | 46    | 03.3 |       |          | 9990  | 89.9  |
| Tonto Forest      | EP  |       | 0.78 | ESKS1 | 55       | 10165 | 91.5  |
| Tucson            | EP  |       | 12.5 |       |          | 10310 | 92.8  |
| Oroville          | EP  |       | 14   |       |          | 10265 | 92.4  |
| Isabelle          | P   |       | 18   |       |          | 10465 | 94.2  |
| Penas             | EP  | 4(6)  | 34.4 | e     | 40       |       |       |
| La Paz            | EP  |       | 35   |       |          |       |       |
| Byrd              | PKP | 52    | 20.1 |       |          | 14900 | 134.1 |

inscrit à M'bour, Lomé, Ponta Delgada, Lisboa, De  
Bilt, Raciborz, Rybnik, Pasadena, Cagliari, Padova, Addis Ababa,  
Caracas.

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Sicile

M. = 4.0 (Messina) . Réplique du séisme H = 01h.46<sup>mn</sup>14<sup>s</sup>. (ING) précédent.

|                   |     |            |     |            |
|-------------------|-----|------------|-----|------------|
| Messina           | iPn | 01 46 51.4 | iSn | 01 47 17.7 |
| Messina ING       | e   | 53.3       |     |            |
| La Mourre         | eP  | 48 05.3    |     |            |
| St. Paul en Foret | eP  | 07         |     |            |
| Lorgues           | eP  | 07.9       |     |            |
| Lanslevillard     | e   | 28         | e   | 01 48 42   |

IV.- 15 Janvier

Sicile.

37° 9 N ; 13° 1 E ; h = 33km ; H = 02h.01<sup>mn</sup>08.5<sup>s</sup>. (CGS)  
 37° 7 N ; 13° 0 E ; H = 02h.01<sup>mn</sup>03<sup>s</sup>. (BCIS)  
 37° 5 N ; 12° 4 E ; h = 13km ; H = 02h.01<sup>mn</sup>00<sup>s</sup>. (URSS)  
 H = 02h.01<sup>mn</sup>00<sup>s</sup>. (ING)

Choc principal, destructeur dans la vallée du Belice ; IX à Gibellina et Salaparuta ; VIII - IX à Montevago ; VIII à Poggioreale et Santa Margherita de Belice ; dégats à Santa Ninfa, Partanna, Menfi.  
 - 281 morts, 600 blessés, 6.000 sinistrés, dégats évalués à 320 millions de dollars.

Voir : - C. Bosi, R. Cavallo, M. Manfredini : Il terremoto della valle del Belice del gennaio 1968, Rassegna dei lavori pubblici, n° 2, février 1969, 31 P.

- M. de Panfilis, L. Marcelli : Il periodo sismico della Sicilia occidentale iniziato il 14 gennaio 1968, ann. geofis. (Rome), vol. XXI, 1968, pp. 343 - 422, photos et cartes.

- J. E. Haas, the western Sicily earthquakes of 1968, Washington D.C., National Academy of Sciences, 1969.

- D. Cannata et al. : missione di studio nelle zone terremotate della Sicilia occidentale, l'Industria delle Costruzioni, Settembre - Ottobre 1968, 38 P., photos et cartes.

M. = 6.4 (Bangui) ; 6.3 (Uppsala - Kiruna) ; 6 1/4 (Lisboa) ; 6.2 (Stuttgart - Toledo) ; 6.0 (Pasadena - Praha - Roma - Strasbourg - Golden - Lvov) ; 5.9 (BCIS - Prunice - Moxa - NurmiJaerwi) ; 5.8 (Bensberg) ; 5.7 (Godhavn - Caracas - Wichita M.) ; 5.6 (Cumberland Pl. - Blue M. - Tonto Forest) ; 5.4 (CGS - Bozeman SSS) ; 5.3 (Athènes - Windhoek - Dugway) ; 5.2 (Albuquerque) ; 5.1 (Quetta - Longmire) ; 4.8 (Köbenhavn - Kajaani - College) ; 4.7 (Eureka).

|                 |     |            |     |            |     |     |
|-----------------|-----|------------|-----|------------|-----|-----|
| Messina         | iPn | 02 01 39.4 | iSn | 02 02 05.8 | 220 | 2.0 |
| Messina ING     | iPn | 40.1       | iSn | 06.3       | 220 | 2.0 |
| Reggio_Calabria | iPn | 41.6       | iSg | 16.2       | 225 | 2.0 |

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|                       |        |       |                   |         |         |      |      |      |
|-----------------------|--------|-------|-------------------|---------|---------|------|------|------|
| Roma                  | iP     | 02 02 | 09.2              | iS      | 02 02   | 59.2 | 4 45 | 4.0  |
| Cagliari              | iPn    |       | 11                | iSn     | 03 01   |      | 465  | 4.2  |
| Taranto               | eiPn   |       | 14                | iSn     |         | 05.5 | 460  | 4.1  |
| L'Aquila              | iPn    |       | 17                | i       | 02 18   |      | 495  | 4.5  |
| Valsamata             | eiP    |       | 34.1              |         |         |      | 660  | 5.9  |
| Sétif                 | eP     |       | 39                |         |         |      | 710  | 6.7  |
| Bologna               | e:(Pn) |       | 50                | ePg     | 03 06   |      | 745  | 6.7  |
| Monção                | iPn    |       | 52.3              | i       |         | 15.5 | 805  | 7.2  |
| La Mourre             | iP     |       | 53                |         |         |      | 825  | 7.4  |
| Genes                 | ePn    |       | 54                | eSn     | 04 14   |      | 805  | 7.2  |
| St. Paul en Foret     | iP     |       | 54.5              |         |         |      | 830  | 7.5  |
| Lorgues               | iP     |       | 56                |         |         |      | 840  | 7.5  |
| Skopje                | iPn    |       | 57.8              |         |         |      | 845  | 7.6  |
| Sant Anna di Valdieri | e:(Pn) |       | 59.4              | e:(Sn)  |         | 25   | 860  | 7.7  |
| Isola                 | iP     | 03    | 00.2              |         |         |      | 855  | 7.7  |
| Trieste               | ePn    |       | 01                | iS      |         | 28   | 865  | 7.8  |
| Cadarache             | eP     |       | 03                | i       |         | 31.3 | 890  | 8.0  |
| Padova                | e:(Pn) |       | 03.8              | ei:(Sn) |         | 37   | 840  | 7.6  |
| Alger                 | iP     |       | 04 <sup>C</sup>   | i       |         | 29   | 895  | 8.1  |
| Zagreb                | eP     |       | 05.5              | e       |         | 15.7 | 910  | 8.2  |
| Pavia                 | e      |       | 07                | e       | 05 05   |      | 870  | 7.8  |
| Ljubljana             | iPn    |       | 09.1              | iSn     | 04 50   |      | 910  | 8.2  |
| Athènes               | ePn    |       | 09.2              |         |         |      | 935  | 8.4  |
| Lanslevillard         | eiP    |       | 14                | i!S     | 05 02.8 |      | 970  | 8.7  |
| Monteynard            | eP     |       | 17.5              | eiS     |         |      | 1000 | 9.0  |
| Béograd               | ePn    |       | 18.7 <sup>D</sup> | i(S)    |         | 13.7 | 980  | 8.8  |
| Sofia                 | eP     |       | 18.7              | i(S)    | 04 50.2 |      | 1020 | 9.2  |
| Roselend              | eP     |       | 22.5              | i(S)    | 05 15   |      | 1015 | 9.2  |
| Vamos                 | eP     |       | 25.3              |         |         |      | 1030 | 9.3  |
| Tortosa               | iP     |       | 32                | iS      |         | 28   | 1130 | 10.2 |
| Vouglans              | eP     |       | 34                | i       |         | 51.4 | 1125 | 10.1 |
| Ravensburg            | eP     |       | 35                |         |         |      | 1135 | 10.2 |
| Fürstenfeldbruck      | eP     |       | 37                |         |         |      | 1145 | 10.3 |
| Paraskevi             | eP     |       | 37.2              |         |         |      | 1155 | 10.4 |
| Alicante              | iP     |       | 40                | iS      |         | 44   | 1190 | 10.7 |
| Budapest              | eP     |       | 40                |         |         |      | 1165 | 10.5 |
| Wien                  | ePn    |       | 41                | iSn     |         | 41   | 1180 | 10.6 |
| Wien_Kobelz           | ePn    |       | 41                | eS      |         | 43   | 1180 | 10.6 |
| Srobarova             | eiP    |       | 42.8              |         |         |      | 1180 | 10.6 |
| Clermont              | eP     |       | 45                | i       | 04 31.5 |      | 1205 | 10.8 |
| Bagnères              | iP     |       | 45                |         |         |      | 1235 | 11.1 |
| Bratislava            | iP     |       | 45                | eiS     | 05 40.5 |      | 1185 | 10.7 |
| Stuttgart             | eP     |       | 7.9               |         |         |      | 1245 | 11.2 |
| Kasperské Hory        | P      |       | 48                |         |         |      | 1245 | 11.2 |
| Haudompré             | iP     |       | 49                |         |         |      | 1250 | 11.2 |
| Les Bâteaux           | iP     |       | 49                |         |         |      | 1255 | 11.3 |
| Bühlerhöhe            | eP     |       | 49.5              |         |         |      | 1260 | 11.3 |
| Welschbruch           | iP     |       | 50                | i       | 04 05.7 |      | 1255 | 11.3 |
| Champ du Feu          | iP     |       | 50                |         |         |      | 1255 | 11.3 |
| Strasbourg            | iP     |       | 51                | e       | 05 20   |      | 1260 | 11.4 |
| St. Saulge            | iP     |       | 52.7              |         |         |      | 1290 | 11.6 |

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|                 |     |            |      |          |      |      |
|-----------------|-----|------------|------|----------|------|------|
| Sommée Lormes   | 1P  | 02 03 52.8 |      |          | 1280 | 11.5 |
| Toulx Ste Croix | 1P  | 54.9       |      |          | 1295 | 11.6 |
| Campulung       | eP  | 55         |      |          | 1300 | 11.7 |
| Erlangen        | eP  | 56.1D      |      |          | 1320 | 11.9 |
| Cine            | 1P  | 57         |      |          | 1320 | 11.9 |
| Bucaresti       | P   | 57         | S    | 02 05 57 | 1305 | 11.8 |
| Karlsruhe       | eP  | 57.8D      | eL   | 07 32    | 1290 | 11.6 |
| Garchy          | 1P  | 58C        |      |          | 1325 | 11.9 |
| Pruhonice       | eeP | 04 00      | S    | 06 16    | 1345 | 12.1 |
| Rhodes          | eP  | 00.0       |      |          | 1350 | 12.2 |
| Almería         | 1P  | 03         | M    | 08 20    | 1380 | 12.4 |
| Praha           | eP  | 05         |      |          | 1355 | 12.2 |
| Istanbul Kand   | 1P  | 06.6C      |      |          | 1419 | 12.7 |
| Istanbul UTI    | eP  | 08.3C      | eS   | 06 40    | 1400 | 12.6 |
| Moxa            | eP  | 09         | eS   | 33       | 1410 | 12.7 |
| Niedzica        | eP  | 10C        | e1PP | 04 21    | 1405 | 12.6 |
| Raciborz        | eP  | 10         | eS   | 06 36    | 1415 | 12.7 |
| Oujgorod        | eP  | 10         |      |          | 1405 | 12.6 |
| Taanus          | 1P  | 13         |      |          | 1415 | 12.7 |
| Vrincioala      | P   | 13         | L    | 08 --    | 1430 | 12.9 |
| Chorzow         | eP  | 16         | ePP  | 04 26    | 1455 | 13.1 |
| Krakow          | eP  | 17C        | e1PP | 26       | 1455 | 13.9 |
| Toledo          | 1P  | 19.5C      | 1S   | 06 52    | 1500 | 13.5 |
| Focsani         | (P) | 21         | S    | 27       | 1455 | 13.1 |
| Bensberg        | eP  | 23         | eS   | 54       | 1520 | 13.7 |
| Uccle           | P   | 29         | S    | 07 13    | 1590 | 14.3 |
| Iasi            | P   | 31         | S    | 09       | 1570 | 14.1 |
| St. Sauveur     | 1P  | 31.4       |      |          | 1590 | 14.3 |
| Malaga          | 1P  | 32         | 1S   | 04       | 1555 | 14.0 |
| Bacau           | e   | 32         | e    | 06 51    | 1485 | 13.4 |
| Le Pertre       | 1P  | 33.2       |      |          | 1605 | 14.5 |
| Folinigre       | 1P  | 34.4       |      |          | 1620 | 14.6 |
| Gorron          | 1P  | 34.6       |      |          | 1620 | 14.6 |
| Lvw             | 1P  | 36         | M    | 10.8--   | 1585 | 14.3 |
| Kichinev        | 1P  | 37C        | 1S   | 07 29    | 1640 | 14.8 |
| Ifrane          | eP  | 41         |      |          | 1720 | 15.5 |
| De Bilt         | eP  | 43         | eS   | 47       | 1695 | 15.3 |
| Warsawa         | e1P | 47         | e1S  | 49       | 1719 | 15.4 |
| Wittween        | eP  | 55         |      |          | 1730 | 15.6 |
| Tamanrasset     | 1P  | 56D        |      |          | 1825 | 16.4 |
| Rabat           | eP  | 05 00      |      |          | 1845 | 16.6 |
| Helwan          | 1P  | 02         | 1S   | 08 22    | 1900 | 17.1 |
| Lisboa          | P   | 05.6       | S    | 30.6     | 1945 | 17.5 |
| Averroes        | P   | 08         |      |          | 1920 | 17.3 |
| Simferopol      | 1P  | 10C        |      |          | 1915 | 17.2 |
| Köbenhavn       | 1P  | 15D        | S    | 35       | 1965 | 17.7 |
| Karlskrona      | 1P  | 20.9       |      |          | 2040 | 18.3 |
| Ksara           | 1P  | 30         | 1S   | 09 12    | 2100 | 18.9 |
| Jérusalem       | eP  | 31         | eS   | 15       | 2125 | 19.1 |
| Durham          | 1P  | 36         | 1S   | 14       | 2180 | 19.6 |
| Göteborg        | 1P  | 38.2       |      |          | 2205 | 19.8 |
| Valentia        | 1P  | 06 00      | 1S   | 54       | 2390 | 21.5 |
| Uppsala         | 1P  | 01.9       |      |          | 2455 | 22.1 |

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|                |      |       |                   |     |          |      |      |
|----------------|------|-------|-------------------|-----|----------|------|------|
| Kongsberg      | 1P   | 02 06 | 02.3              |     |          | 2420 | 21.8 |
| Uddeholm       | 1P   |       | 03.3              |     |          | 2470 | 22.2 |
| Bergen         | eP   |       | 11                |     |          | 2555 | 23.0 |
| Poti           | eP   |       | 14                | iS  | 02 10 34 |      |      |
| Lillehammer    | 1P   |       | 14.6              |     |          | 2580 | 23.2 |
| Bakouriani     | eP   |       | 18.1              | 1S  | 36       | 2625 | 23.6 |
| Nurmijaerwi    | 1P   |       | 18.2              | eS  | 32       | 2635 | 23.7 |
| Moskva         | P    |       | 23                | eS  | 44       | 2700 | 24.3 |
| Poulkovo       | 1P   |       | 28 <sup>C</sup>   | eS  | 50       | 2720 | 24.5 |
| Tbilisi        | eP   |       | 27                | eS  | 51       | 2730 | 24.6 |
| Skalstugan     | eP   |       | 36.2              |     |          | 2855 | 25.7 |
| Kirovabad      | eP   |       | 38                | S   | 11 09    | 2865 | 25.8 |
| Uméa           | 1P   |       | 40.8              | 1S  | 02       | 2920 | 26.3 |
| Goris          | 1P   |       | 41 <sup>C</sup>   |     |          | 2880 | 25.9 |
| Tabriz         | eP   |       | 43 <sup>C</sup>   | 1   | 17       | 2900 | 26.1 |
| Ténériffe      | P    |       | 45                |     |          | 2910 | 26.2 |
| Kajaani        | 1P   |       | 54.6              | 1   | 07 18.5  | 3065 | 27.6 |
| Kermanshah     | eP   |       | 56                |     |          | 3065 | 27.6 |
| Oulu           | eP   | 07    | 00                |     |          | 3140 | 28.2 |
| Kiruna         | 1P   |       | 17.1              |     |          | 3355 | 30.2 |
| Sodankylä      | eP   |       | 19                |     |          | 3380 | 30.4 |
| Téhéran        | eP   |       | 22                |     |          | 3400 | 30.6 |
| Kevo           | eP   |       | 30                | eS  | 12 56    | 3635 | 32.7 |
| Apatity        | i(P) |       | 35 <sup>C</sup>   |     |          | 3535 | 31.8 |
| Bangui         | 1P   |       | 46.6 <sup>D</sup> |     |          | 3755 | 33.8 |
| Kizyl-Arvat    | eP   |       | 47                | 1   | 07 52    | 3730 | 33.6 |
| Lomé           | 1P   |       | 48                | e   | 13 35    | 3715 | 33.4 |
| Chiraz         | P    |       | 48.1              | iL  | 13       | 3755 | 33.8 |
| Reykjavik      | eP   |       | 51                |     |          | 3720 | 33.5 |
| M'Bour         | 1P   | 08    | 02                | eIS | 28       | 3940 | 35.5 |
| Lamto          | P    |       | 03                |     |          | 3955 | 35.6 |
| Sverdlovsk     | P    |       | 10                | S   | 53       | 4045 | 36.4 |
| Mashad         | eP   |       | 16                |     |          | 4090 | 36.8 |
| Kap Tobin      | 1P   |       | 21.5              |     |          | 4160 | 37.4 |
| Kinbbay        | eP   |       | 52                |     |          | 4565 | 41.1 |
| Samar kand     | eP   |       | 54                |     |          | 4615 | 41.5 |
| Tachkent       | eP   | 09    | 06 <sup>D</sup>   |     |          | 4755 | 42.8 |
| Garm           | eP   |       | 15                |     |          | 4910 | 44.2 |
| Qnetta         | eP   |       | 21                | eS  | 16 00    | 4965 | 44.7 |
| Nairobi        | 1P   |       | 22.2              |     |          | 4970 | 44.7 |
| Frounze        | eP   |       | 32                |     |          | 5135 | 46.2 |
| Warsak         | P    |       | 33                |     |          | 5180 | 46.6 |
| Godhavn        | 1P   |       | 37.4 <sup>C</sup> | 1S  | 32       | 5210 | 46.9 |
| Semipalatinsk  | eP   |       | 45.8              |     |          | 5355 | 48.2 |
| Talgar         | eP   |       | 46                |     |          | 5340 | 48.0 |
| Sa da Bandeira | eP   | 10    | 20.4              |     |          | 5645 | 52.6 |
| Frobisher      | eP   |       | 23.7              |     |          | 5900 | 53.1 |
| New Dehli      | 1P   |       | 27.5              |     |          | 5940 | 53.5 |
| Karoi          | eP   |       | 48                |     |          | 6290 | 56.6 |
| Resolute       | eP   | 11    | 04                |     |          | 6480 | 58.3 |
| Windhoek       | eP   |       | 17.9              |     |          | 6700 | 60.3 |
| Berlin         | 1P   |       | 20.7              |     |          | 6790 | 61.1 |

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|                |      |       |                   |     |          |       |      |
|----------------|------|-------|-------------------|-----|----------|-------|------|
| Brébeuf        | IP   | 02 11 | 27.3              |     |          | 6910  | 62.2 |
| Weston         | IP   |       | 27.5              | eS  | 02 19 49 | 6900  | 62.1 |
| Ottawa         | eP   |       | 36                |     |          | 7055  | 63.5 |
| Kodaikanal     | eP   |       | 38                |     |          | 7085  | 63.6 |
| Bodajbo        | eP   |       | 39                |     |          | 7130  | 64.2 |
| Madras         | e(P) |       | 51                | e   | 20 55    | 7120  | 64.1 |
| Shillong       | IP   |       | 55 <sup>D</sup>   |     |          | 7370  | 66.3 |
| Changalane     | eP   |       | 56                |     |          | 7380  | 66.4 |
| Washington     | eP   | 12    | 03.5              |     |          | 7510  | 67.6 |
| Coppermine     | eP   |       | 04.5 <sup>C</sup> |     |          | 7510  | 67.6 |
| Yakoutsk       | eP   |       | 05                |     |          | 7570  | 68.1 |
| Morgantown     | IP   |       | 14.7 <sup>C</sup> |     |          | 7680  | 69.1 |
| Barrow         | eP   |       | 24.4              |     |          | 7865  | 70.8 |
| Trinidad       | eP   |       | 27.2              |     |          | 7920  | 71.3 |
| Punta Delgada  | S    |       | 35                | LR  | 15 40    | 3385  | 30.5 |
| Dubuque        | P    |       | 42.5              |     |          | 8245  | 74.2 |
| Cumberland pl. | eP   |       | 47.8              |     |          | 8345  | 75.1 |
| Caracas        | eP   |       | 53.6              | IS  | 22 36    | 8420  | 75.8 |
| Pedro Dome     | eP   |       | 58                |     |          | 8465  | 76.2 |
| College        | IP   |       | 59.9              |     |          | 8490  | 76.4 |
| Magadan        | eP   | 13    | 00                |     |          | 8535  | 76.8 |
| Edmonton       | eP   |       | 05                |     |          | 8680  | 78.1 |
| Black Rapids   | IP   |       | 05.7              |     |          | 8610  | 77.5 |
| Lawrence       | eP   |       | 11.1              |     |          | 87.90 | 79.1 |
| Manhattan      | eP   |       | 15                |     |          | 8855  | 79.7 |
| Palmer         | eP   |       | 18.1              |     |          | 8865  | 79.8 |
| Tulsa          | IP   |       | 23.5 <sup>C</sup> |     |          | 9045  | 81.4 |
| Sparrevohn     | IP   |       | 24.5              |     |          | 8990  | 80.9 |
| Hungry Horse   | eP   |       | 27                |     |          | 9120  | 82.1 |
| Bozeman SSS    | eP   |       | 32.6              |     |          | 9235  | 83.1 |
| Butte          | eP   |       | 32.6              |     |          | 9245  | 83.2 |
| New port       | eP   |       | 34                |     |          | 9265  | 83.4 |
| Nordman        | eP   |       | 34                |     |          | 9235  | 83.1 |
| Hong Kong      | eP   |       | 38                |     |          | 9420  | 84.8 |
| Wichita M.     | eP   |       | 38.7              | ePP | 16 56.8  | 9320  | 83.9 |
| Golden         | eP   |       | 39.3              |     |          | 9365  | 84.3 |
| Flaming Gorge  | eP   |       | 45                | e   | 17 05.5  | 9500  | 85.5 |
| Bogota         | eP   |       | 45                |     |          | 9445  | 85.0 |
| Uinta Basin    | eP   |       | 47.4              | ESS | 30 12    | 9580  | 86.2 |
| Chinchina      | IP   |       | 49                |     |          | 9555  | 86.0 |
| Longmire       | eP   |       | 50                |     |          | 9610  | 86.5 |
| Seattle        | IP   |       | 50                |     |          | 9555  | 86.0 |
| Lubbock        | eP   |       | 51                |     |          | 9635  | 86.7 |
| Salt Lake City | eP   |       | 52                |     |          | 9655  | 86.9 |
| Tumwater       | IP   |       | 53                |     |          | 9635  | 86.7 |
| Digway         | eP   |       | 55.6              |     |          | 9755  | 87.8 |
| Albuquerque    | eP   |       | 59                | e   | 25 40    | 9820  | 88.4 |
| Glen Canyon    | eP   |       | 05.5              |     |          | 9955  | 89.6 |
| Eureka         | IP   |       | 06.2              |     |          | 99.90 | 89.9 |
| La palma       | eP   |       | 10.5              |     |          | 10080 | 90.7 |
| Tonto Forest   | eP   |       | 14.2              | ePP | 17 52.2  | 10165 | 91.5 |
| Quitto         | eP   |       | 15                |     |          | 10155 | 91.4 |
| Mineral        | eP   |       | 15.8 <sup>C</sup> |     |          | 10195 | 91.8 |
| Oroville       | IP   |       | 18.7              |     |          | 10255 | 92.3 |
| Tucson         | eP   |       | 19.5              |     |          | 10300 | 92.7 |

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|                   |      |       |       |     |          |        |       |
|-------------------|------|-------|-------|-----|----------|--------|-------|
| La Paz            | EP   | 02 14 | 21.5  | SKS | 02 25 13 | 10365  | 93.3  |
| Penas             | EP   |       | 22.5  | SKS | 13       | 10380  | 93.4  |
| Jamestown         | EP   |       | 22.7C | e   | 18 08.8  | 10355  | 93.2  |
| Mt Hamilton       | EP   |       | 26.3C | e   | 06.6     | 10465  | 94.2  |
| San Luis Dam      | EP   |       | 28    |     |          | 10480  | 94.3  |
| Priest            | EP   |       | 31.1C |     |          | 10535  | 94.8  |
| Pasadena          | EP   |       | 34    | ePP | 22       | 10580  | 95.2  |
| Huancayo          | EP   |       | 37    |     |          | 10680  | 96.1  |
| Presa Infiernillo | EP   |       | 37.5  |     |          | 10810  | 97.3  |
| Novo Lazarewskaya | EP   | 15    | 32.5  |     |          | 12040  | 108.4 |
| Nat. Univ. Mexico | IPP  | 18    | 24    | eS  | 25 4 4   | 10520  | 94.7  |
| Warramunga        | EPKP | 20    | 10    | e   | 24 07    | 14045  | 128.4 |
| Byrd              | PKP  |       | 24.3  | e   | 27 12.1  | 14900  | 134.1 |
| Charters Towers   | PKP  |       | 24.3  |     |          | 150 90 | 135.8 |
| Toolangi          | PKP  |       | 35    |     |          | 156 5  | 1 2.7 |
| Port Moresby      | PKP  |       | 36    |     |          | 14435  | 129   |
| Brisbane          | PKP  |       | 43    | 1   | 54       | 16080  | 144.7 |
| Kouéac            | IPKP | 21    | 04.4  |     |          | 16630  | 149.7 |
| Nouméa            | IPKP |       | 10.4D |     |          | 16925  | 152.3 |

inscrit à Berkeley, Hermanus, Dehra Dun, Rybnik,  
Monteynard, Luxembourg, Addis Ababa, Cochabamba.

V. 15 janvier  
Iles Santa Cruz

12°6S, 165°6E h = 41km H = 02h02<sup>mm</sup>17.9S (CGS)  
12°6S, 166°0E H = 02h02<sup>mm</sup>17S (Nouméa)  
M = 5.0 (CGS, Rabaul), 4.7 (Nouméa)

|                 |       |       |         |      |            |       |      |
|-----------------|-------|-------|---------|------|------------|-------|------|
| Luganville      | IP    | 02 03 | 06.9    | IS   | 02 03 41.5 | 355   | 3.2  |
| Lonorore        | EP    |       | 18.6    | IS   | 04 17.5    | 445   | 4.0  |
| Port Vila       | EP    |       | 43      | IS   | 49         | 635   | 5.7  |
| Honiara         | IP    |       | 47.5    | eS   | 05 00      | 710   | 6.4  |
| Ouanaham        | EP    | 04    | 12.3    |      |            | 910   | 8.2  |
| Koumac          | IP    |       | 13.3C   | IS   | 45         | 890   | 8.0  |
| Nouméa          | IP    |       | 37D     | IS   | 06 24.5    | 1065  | 9.6  |
| Esa'Ala         | IP    | 05    | 47.5C   |      |            | 1645  | 14.8 |
| Rabaul          | EP    |       | 58.5    | e(S) | 10 08      | 1745  | 15.7 |
| Port Moresby    | EP    | 06    | 31      |      |            | 2045  | 18.4 |
| Brisbane        | IP    |       | 40.4    | IS   | 28         | 2110  | 19.0 |
| Charters Towers | IP    |       | 49.9    | eS   | 33         | 3220  | 20.0 |
| Toolangi        | EP    |       | 31      |      |            | 3410  | 20.7 |
| Adelaide        | EP    |       | 54      |      |            |       |      |
| Canberra        | eS    |       | 12 49   |      |            |       |      |
| Byrd            | EP    |       | 13 52.8 |      |            | 8 335 | 75.0 |
| Lanslevillard   | EPKP1 | 21    | 52      | ei   | 21 53.3    |       |      |
| Roselend        | EPKP1 | 22    | 01      | e    | 22 04      |       |      |

inscrit à Tonto Forest, Afiamalu.



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VI. 15 janvier  
Sicile

Réplique : H = 02<sup>h</sup>09.9<sup>s</sup> (ING)

M = 4.1 (ING)

|                 |     |   |            |    |            |
|-----------------|-----|---|------------|----|------------|
| Messina         | ING | e | 02 10 35.8 | iS | 02 11 07.2 |
| Messina         |     | i | 36.4       |    |            |
| Reggio Calabria | e   |   | 37.4       | i  | 35.3       |
| Lanslevillard   | ei  |   | 12 10.5    | e  | 13 51      |
| Monteynard      | e   |   | 14         |    |            |
| Lillehammer     | iP  |   | 15 11.2    |    |            |

VII. 15 janvier  
Sicile

Réplique : = 02<sup>h</sup>18<sup>mn</sup>(32)<sup>s</sup> (ING) M = 3.5 (Messina)

|               |   |            |    |            |  |
|---------------|---|------------|----|------------|--|
| Messina       | e | 02 19 09.4 |    |            |  |
| Messina ING   | e | 17.2       | iS | 02 19 45.6 |  |
| Lanslevillard | e | 20 55      | e  | 20 57      |  |

inscrit à Reggio Calabria

VIII. 15 janvier  
Iles Loyauté

Vers 20°0S, 170°0E

H = 02<sup>h</sup>21<sup>mn</sup>49<sup>s</sup> (Nouméa)

M = 3.4 (Nouméa)

|        |     |            |    |            |  |
|--------|-----|------------|----|------------|--|
| Nouméa | eiP | 02 22 49.9 | iS | 02 23 35.5 |  |
| Koumac | iP  | 23 08.30   | iS | 24 10      |  |

IX. 15 janvier  
Sicile

Réplique : H = 02<sup>h</sup>22<sup>mn</sup>(15)<sup>s</sup> (ING)

M = 3.5 (Messina)

|                 |       |     |             |     |            |
|-----------------|-------|-----|-------------|-----|------------|
| Messina         | ING   | ePn | 02 22(55.6) | iSn | 02 23 17.6 |
| Reggio Calabria | e(Pg) |     | 23 02       | eSg | 35         |
| Lanslevillard   | e     |     | 58          |     |            |
| Uddeholm        | eP    |     | 27 17       |     |            |
| Lillehammer     | eP    |     | 28          |     |            |

inscrit à Messina.

X. 15 janvier  
Sicile

Réplique : H = 02<sup>h</sup>34<sup>mn</sup>(45)<sup>s</sup> (ING)

M = 3.3 (Messina)

|                  |     |            |   |            |  |
|------------------|-----|------------|---|------------|--|
| Messina          | e   | 02 35 58.4 |   |            |  |
| Reggio Calabria  | e   | 38 03.8    | e | 02 36 30.8 |  |
| Messina ING      | e   | (04.6)     | e | 33.6       |  |
| La Mourre        | eiP | 37 14.1    |   |            |  |
| St Paul en Forêt | eiP | 16         |   |            |  |
| Lorgues          | eiP | 16.8       |   |            |  |

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|               |   |          |   |            |
|---------------|---|----------|---|------------|
| Lanslevillard | e | 02 37 38 | e | 02 39 23.5 |
| Roselend      | e | 44       |   |            |
| Vouglans      | e | 50       |   |            |

XI. 15 janvier  
Sicile (Réplique)

Réplique : H = 03<sup>h</sup>02<sup>m</sup>(13)<sup>s</sup> (ING)

M = 3.7 (Messina)

|                  |     |            |     |            |
|------------------|-----|------------|-----|------------|
| Messina ING      | e   | 03 02 51.6 | e   | 03 03 22.5 |
| Messina          | ePn | 52.4       | iSn | 18.5       |
| La Mourre        | iP  | 04 04.7    |     |            |
| St Paul en foret | iP  | 06         |     |            |
| Lorgues          | eP  | 07.6       |     |            |
| Lanslevillard    | e   | 27         | ei  | 04 29.5    |
| Vouglans         | e   | 43         |     |            |

inscrit à Reggio Calabria

XII. 15 janvier  
Sicile (Réplique)

Réplique : H = 03<sup>h</sup>04<sup>m</sup>(14)<sup>s</sup> (ING)

M = 4.09 (Roma)

|               |     |          |      |            |
|---------------|-----|----------|------|------------|
| Messina ING   | iPn | 03 04 54 | eSn  | 03 05 22.5 |
| Messina       | ePn | 54.4     | iSn  | 21.4       |
| Roma          | e   | 05 53    | e(S) | 06 19      |
| Lanslevillard | ei  | 06 13    | ei   | 08 08.5    |
| Roselend      | e   | 30       | e    | 06 36      |

inscrit à Reggio Calabria

XIII. 15 janvier  
Sicile (Réplique)

Réplique : H = 03<sup>h</sup>14<sup>m</sup>(00)<sup>s</sup> (ING)

M = 4.06 (Roma)

|      |   |          |   |          |
|------|---|----------|---|----------|
| Roma | e | 03 15 47 | i | 03 16 33 |
|------|---|----------|---|----------|

XIV. 15 janvier  
Sicile (Réplique)

37°9N, 13°1E h = 33<sup>km</sup> H = 03<sup>h</sup>18<sup>m</sup>40.8<sup>s</sup> (CGS)

37°8N, 13°2E H = 03<sup>h</sup>18<sup>m</sup>40<sup>s</sup> (BCIS)

37°4N, 12°7E H = 03<sup>h</sup>18<sup>m</sup>36<sup>s</sup> (URSS)

37°8N, 13°2E (UPDsala)

M = 5.7 (Bangui), 5.04 (Roma), 5.0 (UPDsala), 4.7 (Tonto Forest), 4.6 (CGS), 4.5 (Wichita M. Dugway), 4.2 (Blue M.).

|                 |     |            |     |            |     |     |
|-----------------|-----|------------|-----|------------|-----|-----|
| Messina         | iPn | 03 19 12.4 | iSn | 03 19 38.9 | 220 | 2.0 |
| Reggio Calabria | ePn | 13.5       | i   | 46.1       | 225 | 2.0 |
| Messina ING     | ePn | 14.6       | iSn | 40.6       | 220 | 2.0 |
| Roma            | ePn | 41         | eS  | 20 47      | 445 | 4.0 |
| Taranto         | ePn | (48)       | eSn | 29         | 460 | 4.1 |

|                  |     |          |              |      |      |
|------------------|-----|----------|--------------|------|------|
| L'Aquila         | ePn | 03 19 50 |              | 495  | 4.5  |
| Valsamata        | eP  | 20 08.6  |              | 660  | 5.9  |
| Sétif            | iP  | 11C      |              | 710  | 6.4  |
| La M ourre       | eIP | 25.4     |              | 825  | 7.4  |
| St Paul en Foret | eIP | 26.7     |              | 830  | 7.5  |
| Lorgues          | eIP | 27.9     |              | 840  | 7.5  |
| Isola            | iP  | 33.4     |              | 865  | 7.8  |
| Cadarache        | eP  | 35.5     | i 03 22 01.2 | 890  | 8.0  |
| Ljubljana        | ePn | 40       | eSn 22       | 910  | 8.2  |
| Athènes          | eP  | 41       |              | 930  | 8.4  |
| Lanslevillard    | eIP | 47.4     | eIS 26.9     | 970  | 8.7  |
| Roselend         | eP  | 49       | ei 20 56.4   | 1015 | 9.2  |
| Pavia            | e   | 51       | eM 21 00     | 870  | 7.8  |
| Voüglans         | iP  | 21 10    |              | 1125 | 10.1 |
| Bagnères         | eP  | 18       |              | 1235 | 11.1 |
| Les Buteaux      | eIP | 22       |              | 1255 | 11.3 |
| Kasperské Hory   | P   | 22       |              | 1245 | 11.2 |
| Haudompré        | eIP | 23.2     |              | 1250 | 11.2 |
| Champ du Feu     | eIP | 24.7     |              | 1255 | 11.3 |
| Buhlerhohe       | eP  | 25       |              | 1260 | 11.3 |
| St Saulge        | eIP | 26.1     |              | 1290 | 11.6 |
| Sommée Lormes    | eP  | 26.1     |              | 1290 | 11.6 |
| Toulx Ste Croix  | eIP | 26.3     |              | 1295 | 11.6 |
| Campulung        | eP  | 27       |              | 1300 | 11.7 |
| Bucuresti        | P   | 31       | L 03 27 -    | 1305 | 11.8 |
| Garchy           | eP  | 31.2C    |              | 1325 | 11.  |
| Pruhon ice       | P   | 34       |              | 1345 | 12.1 |
| Ciné             | eP  | 38       |              | 1320 | 11.9 |
| Moxa             | eP  | 42.5     |              | 1420 | 12.8 |
| Oujgorod         | eP  | 43       |              | 1405 | 12.6 |
| Niedz ica        | eP  | 44       |              | 1405 | 12.6 |
| Vrincioaia       | P   | 48       |              | 1430 | 12.9 |
| Krakow           | eP  | 51       | ePP 22 02    | 1455 | 13.1 |
| Toledo           | eP  | 53       |              | 1500 | 13.5 |
| Collm            | eP  | 55       | e 05         | 1490 | 13.4 |
| Ifrane           | P   | 22 23    |              | 1715 | 15.4 |
| Tamanrasset      | eP  | 27       | i 23C        | 1825 | 16.4 |
| Averroes         | eP  | 44       |              | 1920 | 17.3 |
| Uppsala          | iP  | 23 35    |              | 2465 | 22.2 |
| Uddeholm         | iP  | 35.3     |              | 2470 | 22.2 |
| Lillehammer      | eP  | 46.6     |              | 2580 | 23.2 |
| Nurmijaervi      | eP  | 52       | eS 28 08     | 2645 | 23.8 |
| Moskva           | eP  | 57       |              | 2700 | 24.3 |
| Kj rovabad       | eP  | 24 09    |              | 2865 | 25.8 |
| Skalstugan       | iP  | 11.1     |              | 2855 | 25.7 |
| Tabriz           | eP  | 17       |              | 2900 | 26.1 |
| Kiruna           | iP  | 49.1     |              |      |      |
| Bangui           | iP  | 25 20.7C |              | 3745 | 33.7 |
| Ch raz           | P   | 22C      |              | 3755 | 33.8 |
| Lamto            | P   | 35       |              | 3955 | 35.6 |
| Sverdl ovsk      | eP  | 44       |              | 4045 | 36.4 |
| Q uetta          | eP  | 28 49D   |              | 4965 | 44.7 |
| Karoi            | eP  | 28 22    |              | 6290 | 56.6 |

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|              |    |                       |       |      |
|--------------|----|-----------------------|-------|------|
| Bulawayo     | IP | 03 28 45 <sup>C</sup> | 6615  | 59.5 |
| Tiksi        | EP | 58                    | 6875  | 61.9 |
| Edmonton     | EP | 30 37                 | 8680  | 78.1 |
| Hungry Horse | EP | 31 01                 | 9120  | 82.1 |
| Bozeman SSS  | EP | 05                    | 9245  | 83.2 |
| Butte        | EP | 06.9                  | 9255  | 83.3 |
| Wichita M.   | EP | 10                    | 9320  | 83.9 |
| Uinta Basin  | EP | 15.7                  |       |      |
| Blue M.      | EP | 21.8                  | 950   | 86.3 |
| Dugway       | EP | 29                    | 9765  | 87.9 |
| Tonto Forest | EP | 47.8                  | 10180 | 91.6 |

inscrit à Tortosa, Monte ynard, Alger,  
Clermont.

XV. 15 Janvier  
Iles Loyauté

20° 45', 168° 7'E h = 39<sup>km</sup> H = 03<sup>h</sup> 29<sup>mn</sup> 03<sup>s</sup> (CGS)  
20° 45', 168° 9'E H = 03<sup>h</sup> 29<sup>mn</sup> 01<sup>s</sup> (Nouméa)  
M = 4.7 (Nouméa), 4 (CGS, Blue M)

|                 |                   |                         |       |            |       |       |
|-----------------|-------------------|-------------------------|-------|------------|-------|-------|
| Ouanaham        | IP                | 03 29 27.4 <sup>D</sup> | IS    | 03 29 46.5 | 155   | 1.4   |
| Port Vila       | IP                | 44.1 <sup>C</sup>       | IS    | 30 16      | 300   | 2.7   |
| Nouméa          | IP                | 46.3 <sup>C</sup>       | IS    | 20.5       | 310   | 2.8   |
| Koumac          | IP                | 30 05.4                 | IS    | 55         | 465   | 4.2   |
| Lonorore        | EP                | 12.8                    |       |            | 510   | 4.8   |
| Luganville      | EP                | 24.1                    | IS    | 31 28      | 565   | 5.1   |
| Charters Towers | e(P)              | 31 13                   | i     | 33 53      |       |       |
| Brisbane        | e(P)              | 32 34.5                 |       |            | 1790  | 16.1  |
| Mundaring       | EP                | 45                      |       |            |       |       |
| Adelaide        | EP                | 46                      |       |            |       |       |
| Byrd            | EP                | 39 53.6                 |       |            | 7435  | 66.0  |
| China Lake      | P                 | 41 37                   |       |            | 9320  | 89.3  |
| Eureka          | EP                | 42 09.5                 |       |            | 10220 | 92.0  |
| Blue M.         | EP                | 14.5                    |       |            | 10380 | 83.4  |
| Moxa            | PKP               | 43 37                   |       |            | 16090 | 144.8 |
| Bangui          | iPKP <sub>1</sub> | 44.7                    | i(PP) | 52 24.7    |       |       |
| Les Bateaux     | ePKP              | 49.5                    |       |            |       |       |
| Sommée L o rmes | PKP               | 52.8                    |       |            | 16720 | 150.5 |
| St Saulge       | PKP               | 53.3                    |       |            | 16755 | 150.8 |

XVI. 15 Janvier  
Au Nord de la préfecture de Chiba (Japon)

|            |             |                      |  |            |     |     |
|------------|-------------|----------------------|--|------------|-----|-----|
| 35° 47' N, | 14 0° 27' E | h = 70 <sup>km</sup> | H = 04 <sup>h</sup> 23 <sup>mn</sup> 09.1 <sup>s</sup> (JMA) |            |     |     |
| Kakioka    | EP          | 04 23 21.7           | S  | 04 23 30.3 | 55  | 0.5 |
| Tokyo      | IP          | 24.1                 | IS   | 35         | 63  | 0.6 |
| Mito       | IP          | 21.3                 | S  | 34.4       | 66  | 0.6 |
| Yokohama   | EP          | 28.3                 | IS   | 37.6       | 82  | 0.7 |
| Ajiro      | IP          | 32.3                 | S  | 47.8       | 148 | 1.3 |
| Utsunomiya | e           | 34.4                 | e  | 40         | 89  | 0.9 |
| Kofu       | EP          | 36                   | ES   | 53.5       | 172 | 1.5 |

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Matsushiro 1P 04 23 42 218 2.0

XVII. 15 janvier  
Nord de la Colombie

6.°9 N, 73°0W h = 154. km H = 04<sup>h</sup>35<sup>mm</sup>51.5S (CGS)

M = 5.5 (Caracas), 5.4 (Edmonton), 5.3 (Balboa Heights), 4.9 (Cumberland Pl), 4.8 (Mould Bay), 4.7 (CGS, Wichita M), 4.5 (Golden, Eureka), 4.4 (Tucson, Dugway), 4.3 (Penas), 4.2 (Tonto Forest, Blue M), 4.1 (Albuquerque).

|                |      |            |     |            |      |      |
|----------------|------|------------|-----|------------|------|------|
| Bogota         | 1P   | 04 38 34.3 | 1S  | 04 37 05.5 | 280  | 2.5  |
| Chinchina      | 1P   | 43         | 1S  | 17         | 355  | 3.2  |
| Balboa Heights | eP   | 37 23.3    |     |            | 755  | 6.8  |
| Caracas        | 1P   | 32.8D      |     |            | 780  | 7.0  |
| Quito          | eP   | 38 04.4    |     |            | 990  | 2.9  |
| Huancayo       | eP   | 40 03      |     |            | 2100 | 18.9 |
| Penas          | P    | 48.6       | DP  | 41 20.9    | 2600 | 23.4 |
| Cochabamba     | eP   | 48.9       |     |            |      |      |
| La Paz         | eP   | 50.6       | DP  | 25.7       | 2635 | 23.7 |
| Cumberland Pl  | eP   | 41 56.7    |     |            | 3420 | 30.8 |
| Wichita M.     | eP   | 42 42.2    | eCP | 45 04.3    | 4045 | 36.4 |
| Lubbock        | eP   | 53.5       |     |            | 4190 | 37.7 |
| Albuquerque    | eP   | 43 28.8    |     |            | 4620 | 41.6 |
| Tucson         | eP   | 40.3       |     |            | 4810 | 43.3 |
| Golden         | eP   | 44.2       |     |            | 4855 | 43.7 |
| Tonto Forest   | eP   | 51.4       | eCP | 31.1       | 4955 | 44.6 |
| Uinta Basin    | eP   | 44 07.2    |     |            |      |      |
| Dugway         | eP   | 22.1       |     |            | 5410 | 48.7 |
| Goldstone      | P    | 26         |     |            | 5455 | 49.1 |
| Eureka         | 1P   | 35.8       |     |            | 5600 | 50.4 |
| San Luis Dam   | 1P   | 56.1       | e   | 45         | 5900 | 53.1 |
| Blue M.        | eP   | 45 00.1    |     |            | 5990 | 54.9 |
| Oroville       | 1P   | 04.4       |     |            | 6035 | 54.3 |
| Newport        | eP   | 12         |     |            | 6180 | 55.6 |
| Nordman        | 1P   | 13.6       |     |            | 6190 | 55.7 |
| Edmonton       | 1P   | 19.8C      |     |            | 6300 | 56.7 |
| Lanto          | P    | 46 32      |     |            | 7500 | 67.5 |
| Mould Bay      | eP   | 47 10.7    |     |            | 8200 | 73.8 |
| Gilmore Creek  | eP   | 30.6       |     |            | 8590 | 77.3 |
| College        | eP   | 31         |     |            | 8600 | 77.4 |
| Palmer         | eP   | 31.2       |     |            | 8600 | 77.4 |
| Barr ow        | eP   | 53.7       |     |            | 9055 | 81.5 |
| Warramunga     | ePKP | 55 16.5    |     |            |      |      |

XVIII. 15 janvier  
Iles Tonga

19°7S, 175°1W h = 33 km H = 05<sup>h</sup>43<sup>mm</sup>09S (CGS)

M = 5.1 (College), 4.7 (Wichita M), 4.6 (CGS, Albuquerque), 4.5 (Blue M), 4.2 (Tonto Forest)

Afiamaalu eP 05 44.47 eS 05 45 51 735 6.6

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|                 |    |            |  |       |      |
|-----------------|----|------------|--|-------|------|
| Charters Towers | IP | 05 50 13.2 |  | 4035  | 36.3 |
| Warramunga      | EP | 51 42      |  | 5265  | 47.4 |
| Tonto Forest    | EP | 55 23.8    |  | 9000  | 81.0 |
| Blue M.         | EP | 32.1       |  | 9220  | 83.0 |
| Dugway          | EP | 33         |  | 9235  | 83.1 |
| Albuquerque     | EP | 43         |  | 9420  | 84.8 |
| Newport         | EP | 43         |  | 9455  | 85.1 |
| Nordman         | EP | 4 4        |  | 9490  | 85.4 |
| Uinta Basin     | EP | 44.8       |  |       |      |
| College         | IP | 50.8       |  | 9655  | 86.9 |
| Gilmore Creek   | EP | 50.9       |  | 9665  | 87.0 |
| Wichita M.      | EP | 56 0 97    |  | 10055 | 90.5 |

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Au large de la cote Sud du Mexique

|                       |   |          |    |            |         |
|-----------------------|---|----------|----|------------|---------|
| 16° 14' N, 100° 36' W | H = 06h34 <sup>m</sup> 04 <sup>s</sup> (Tacubaya) |          |    |            |         |
| Presa Infiernillo     | IP  | 06 34 48 | IS | 06 35 18.5 | 275 2.5 |
| Nat. Univ. Mexico     | IP  | 58       | ES | 40         | 380 3.4 |
| Léon                  | IP  | 35 21.3  | IS | 36 21      | 545 4.9 |
| Tacubaya              | IS  | 42       |    |            | 385 3.5 |

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Iles Santa Cruz

|   |                      |   |        |          |            |
|---|----------------------|---|--------|----------|------------|
| 12° 5' S, 166° 4' E   | h = 73 <sup>km</sup> | H = 07h02 <sup>m</sup> 46 <sup>s</sup> (CGS)    |        |          |            |
| 12° 0' S, 165° 3' E   |                      | H = 07h02 <sup>m</sup> 41 <sup>s</sup> (Nouméa) |        |          |            |
| M = 5.2 (Nouméa), 4.7 (Eureka), 4.3 (CGS), 3.9 (Tonto Forest) |                      |   |        |          |            |
| Luganville  | IP                   | 07 0333.8C                                      | IS     | 07 04 12 | 345 3.1    |
| Lonoro  | IP                   | 42.7C   | IS     | 25.5     | 410 3.7    |
| Port Vila   | EP                   | 04 12.7   | IS     | 05 24.5  | 610 5.5    |
| Honiara   | EP                   | 31  |        |          | 790 7.1    |
| Koumac  | IP                   | 45.8C   | IS     | 06 20    | 920 8.3    |
| Ouanaham  | EP                   | 49.2  | IS     | 28       | 920 8.3    |
| Nouméa  | IP                   | 05 09   | IS     | 07 04    | 1080 9.7   |
| Brisbane  | IP                   | 07 16   |        |          | 2180 19.6  |
| Charters Towers   | EP                   | 38  |        |          | 2310 20.8  |
| Toolangi  | EP                   | 09 02   |        |          | 3465 31.2  |
| Warramunga  | EP                   | 05  |        |          | 3510 31.6  |
| Meekatharra   | EP                   | 11 13.3C  |        |          |            |
| College   | EP                   | 15 13   |        |          | 3390 84.5  |
| Eureka  | IP                   | 34.2  |        |          | 3335 88.5  |
| Tonto Forest  | EP                   | 44.4  | e (PP) | 16 03.8  | 10080 90.7 |

Inscrit à Bangui, Uinta Basin.

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Sud de l'océan Pacifique

|  |                      |  |  |  |  |
|--|----------------------|--|--|--|--|
| 36° 0' S, 99° 3' W   | h = 33 <sup>km</sup> | H = 07h53 <sup>m</sup> 45 <sup>s</sup> (CGS) |  |  |  |
| M = 5.4 (Caracas), 4.9 (La Paz), 4.7 (Penas, Wichita M.), 4.6 (CGS), 4.5 (Dugway), 4.1 (Eureka), 3.9 (Tonto Forest). |                      |  |  |  |  |

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|               |      |            |      |          |      |      |
|---------------|------|------------|------|----------|------|------|
| Huancayo      | eP   | 08 00 13.5 |      |          | 3580 | 32.2 |
| Cochabamba    | eP   | 18.7       |      |          |      |      |
| Penas         | eP   | 22         | i(S) | 08 06 00 | 3755 | 33.8 |
| La Paz        | P    | 26.6       | eS   | 05 48    | 3755 | 33.8 |
| Eyrd          | eP   | 01 58.4    |      |          | 3990 | 4.9  |
| Bogota        | eP   | 02 12      | eS   | 09 13    | 5200 | 46.8 |
| Caracas       | eIP  | 03 22      | eS   | 11 00    | 6155 | 55.4 |
| Tucson        | eP   | 04 44.5    |      |          | 7645 | 68.8 |
| Wichita M.    | eP   | 57         | e(S) | 14 21    | 7810 | 70.3 |
| Tonto Forest  | eP   | 05 00.6    | eS   | 17       | 7865 | 70.8 |
| Cumberland Pl | eP   | 16.6       |      |          | 8045 | 72.4 |
| Isabella      | P    | 18         | e    | 05 28    | 8165 | 73.5 |
| Priest        | eP   | 27.1D      |      |          | 8280 | 74.5 |
| Uinta Basin   | eP   | 31.2       | eSKS | 15 29    |      |      |
| Jamestown     | eP   | 32.1D      | e    | 05 40.8  | 8455 | 76.1 |
| Eureka        | IP   | 35         |      |          | 8510 | 76.6 |
| San Luis Dam  | e(P) | 35.6       |      |          | 8390 | 75.5 |
| Dugway        | eP   | 35.6       |      |          | 8535 | 76.8 |
| Mt. Hamilton  | e(P) | 39.6D      |      |          | 8420 | 75.8 |
| Berkeley      | d(P) | 42D        |      |          | 8500 | 76.8 |
| Bozeman SSS   | eP   | 06 03.5    |      |          | 9110 | 82.0 |
| Butte         | eP   | 06.6       |      |          | 9165 | 82.5 |
| Toolangi      | eP   | 17         |      |          | 9480 | 85.3 |
| Blue M.       | e(P) | 20.5       |      |          | 9120 | 82.1 |
| Newport       | eP   | 21         |      |          | 9490 | 85.4 |
| Pasadena      | eS   | 14.6--     | eL   | 24.6     |      |      |

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Equateur

2°2 S ; 78°6 W ; h = 121km ; H = 08h.18<sup>m</sup>11s. (CGS)

M. = 4.4(Wichita M.); 4.9(CGS - Penas - La Paz); 3.8(Blue M.); 3.7(Tonto Forest)

|              |    |            |  |  |      |      |
|--------------|----|------------|--|--|------|------|
| Quito        | P  | 08 18 46.3 |  |  | 220  | 2.0  |
| Bogota       | eP | 20 09      |  |  | 910  | 8.2  |
| Huancayo     | eP | 36         |  |  | 1145 | 10.3 |
| Penas        | eP | 22 06.2    |  |  | 1900 | 17.1 |
| La Paz       | P  | 10.5       |  |  | 1955 | 17.6 |
| Cochabamba   | eP | 16.7       |  |  |      |      |
| Wichita M.   | eP | 25 45.8    |  |  | 4590 | 41.3 |
| Tonto Forest | eP | 26 37      |  |  | 5290 | 47.6 |
| Uinta Basin  | eP | 27 02      |  |  |      |      |
| Bozeman SSS  | eP | 38.2       |  |  | 6210 | 55.9 |
| Blue M.      | eP | 57.4       |  |  | 6465 | 58.2 |

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Nouvelles Hébrides (Ile Espiritu Santo)

H = 08h.57<sup>m</sup>23s. (Nouméa)

Lonorore 1P 08 57 39.2 1S 08 57 50.5

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|            |     |            |    |            |
|------------|-----|------------|----|------------|
| Luganville | iP  | 08 57 40.6 | 1S | 08 57 53.5 |
| Port Vila  | eiP | 50.2       | 1S | 58 11.5    |

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Sicile.

Réplique. H = 09h.03<sup>m</sup>(20)<sup>s</sup>.(ING)

M. = 4.05(Roma)

|                   |     |            |     |            |
|-------------------|-----|------------|-----|------------|
| Messina           | ePn | 09 04 01.5 | 1Sn | 09 04 28.5 |
| Messina ING       | e   | (03.2)     | e   | 10.2       |
| La Mourre         | eiP | 05 14      |     |            |
| St. Paul en Foret | eiP | 15.3       |     |            |
| Lorgues           | eiP | 16.7       |     |            |
| Isola             | i   | 21         |     |            |
| Roma              | e   | 39         | e   | 06 17      |
| Garchy            | e   | 06 18.3    |     |            |

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Sicile

Réplique H = 09h.32<sup>m</sup>.(32)<sup>s</sup>.(ING)

M. = 3.68(Messina)

|                   |     |                    |     |            |
|-------------------|-----|--------------------|-----|------------|
| Messina           | ePn | 09 33 14.5         | 1Sn | 09 33 41.9 |
| Messina ING       | e   | 34 11.8            |     |            |
| Lorgues           | eiP | 35 23.9            |     |            |
| La Mourre         | eiP | 27.1               |     |            |
| St. Paul en Foret | eiP | 28.6               |     |            |
| Isola             | i   | 33.9               |     |            |
| Garchy            | i   | 36 32 <sup>C</sup> |     |            |

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Sicile

Réplique. H = 09h.40<sup>m</sup>(20)<sup>s</sup>.(ING)

M. = 3.91(Roma)

Inscrit à Roma.



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Sicile.

Réplique. H = 10<sup>h</sup>.10<sup>mn</sup>(56)<sup>s</sup>.(ING)

M. = 4.0(Roma)

|             |       |             |       |            |
|-------------|-------|-------------|-------|------------|
| Messina ING | e(Pn) | 10 11(37.8) | e     | 10 11 57.8 |
| Messina     | e(Pn) | 33.2        | i(Sn) | 12 05.6    |
| Roma        | e     | 13 13       |       |            |

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Iles aux Renards (Aléoutiennes)

52° 6 N ; 170° 9 W ; h = ~~36~~ km ; H = 10<sup>h</sup>.15<sup>mn</sup>55<sup>sn</sup>(CGS)

M. = 4.5(Wichita M.) ; 4.4(CGS - Blue M. - Dugway) ; 4.3(Tonto Forest - Golden) ;  
4.2(Eureka)

|              |    |            |    |            |      |      |
|--------------|----|------------|----|------------|------|------|
| Adak         | iP | 10 16 48.9 | eS | 10 17 32.6 | 400  | 3.6  |
| College      | eP | 19 52      |    |            | 1900 | 17.1 |
| Nordman      | eP | 22 35      |    |            | 3755 | 33.8 |
| Newport      | eP | 36         |    |            | 3765 | 33.9 |
| Edmonton     | eP | 36         |    |            | 3765 | 33.9 |
| Blue M.      | eP | 50.5       |    |            | 3945 | 35.5 |
| Eureka       | iP | 23 21.8    |    |            | 4389 | 39.4 |
| Dugway       | eP | 34.7       |    |            | 4545 | 40.9 |
| Goldstone    | P  | 40         |    |            | 4810 | 41.5 |
| Uinta Basin  | eP | 50         |    |            |      |      |
| Tonto Forest | eP | 24 14      |    |            | 5065 | 45.6 |
| Golden       | eP | 14.5       |    |            | 5080 | 45.7 |
| Wichita M.   | eP | 25 09.7    |    |            | 5890 | 53.0 |

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Sicile

37° 8 N ; 13° 2 E ; H = 10<sup>h</sup>.25.2<sup>mn</sup>(BCIS)  
Réplique : H = 10<sup>h</sup>.25<sup>mn</sup>04<sup>s</sup>.(ING)

M. = 4.21(Roma)

|                   |     |            |     |            |
|-------------------|-----|------------|-----|------------|
| Messina ING       | ePn | 10 25 45.8 | iSg | 10 26 18.2 |
| Messina           | iPn | 46.8       | iSn | 13         |
| Reggio_Calabria   | e   | 26 16.4    |     |            |
| Roma              | e   | 33         | eS  | 27 23      |
| Sétif             | eP  | 44         |     |            |
| La Mourre         | eP  | 59.3       |     |            |
| St. Paul en Foret | eIP | 27 00.6    |     |            |
| Lorgues           | eP  | 02.1       |     |            |
| Isola             | i   | 06.3       |     |            |

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|               |     |                      |         |            |
|---------------|-----|----------------------|---------|------------|
| Lanslevillard | eP  | 10 27 10             | ei      | 10 27 22.8 |
| Ljubljana     | ePn | 14                   |         |            |
| Praha         | e   | 23.1                 |         |            |
| Roselend      | eP  | 30                   | ei      | 31         |
| Les Buteaux   | eP  | 56.1                 |         |            |
| Sommée Lormes | eP  | 58.5                 |         |            |
| St. gaulge    | eP  | 59.1                 |         |            |
| Garchy        | i   | 28 04.3 <sup>C</sup> |         |            |
| Moxa          | e   | 18                   |         |            |
| Collm         | iP  | 36.3 <sup>D</sup>    |         |            |
| Tamanrasset   | eP  | 49                   |         |            |
| Trieste       | e   | 29 11                | 1(SgSg) | 29 38      |
| Nurmijaervi   | eP  | 30 22                |         |            |

Inscrit à Montéynard - 1, Aquila - Istanbul UTI

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Nouvelles Hébrides.

18°7 S ; 169°6 E ; h = 259 km ; H = 10h.34<sup>mn</sup>09s. (CGS)  
 19°0 S ; 168°9 E ; h = 240 km ; H = 10h.34<sup>mn</sup>05s. (Nouméa)

M. = 3.5 (CGS - Tonto Forest) ; 3.4 (Nouméa)

|              |    |                         |    |            |       |      |
|--------------|----|-------------------------|----|------------|-------|------|
| Port Vila    | iP | 10 34 48.7 <sup>D</sup> | 1S | 10 35 19.5 | 165   | 1.5  |
| Chanaham     | iP | 35 01.7 <sup>C</sup>    | 1S | 47.5       | 335   | 3.0  |
| Luganville   | iP | 12.7 <sup>C</sup>       | 1S | 36 05.5    | 435   | 3.9  |
| Nouméa       | iP | 21.2 <sup>C</sup>       | 1S | 19.5       | 510   | 4.6  |
| Koumac       | iP | 29.3 <sup>C</sup>       |    |            | 590   | 5.3  |
| Tonto Forest | eP | 46 48.6                 |    |            | 10200 | 91.8 |

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Sicile

(Réplique)

H = 10h.41<sup>m</sup>.(33)s. (ING)

M. = 3.61 (Roma)

|      |    |          |   |          |
|------|----|----------|---|----------|
| Rdma | eS | 10 43 43 | e | 10 44 13 |
|------|----|----------|---|----------|

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Sicile.

Réplique : H = 10h.54<sup>m</sup>.(55s.)(Ing)

M. = 4.33 (Roma)

|                 |       |          |     |          |
|-----------------|-------|----------|-----|----------|
| Messina ING     | e(Pn) | 10 55 39 | e   | 10 56 19 |
| Messina         | iPn   | 40       | 1Sn | 08.2     |
| Reggio-Calabria | e     | 58 00.4  |     |          |

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|                   |         |    |    |      |     |    |      |    |
|-------------------|---------|----|----|------|-----|----|------|----|
| Roma              | e       | 10 | 56 | 12   | eSn | 10 | 56   | 46 |
| La Mourre         | eP      |    |    | 52°3 |     |    |      |    |
| St. Paul en Foret | eP      |    |    | 54°3 |     |    |      |    |
| Ljubljana         | eP      |    | 57 | 08   |     |    |      |    |
| Pavia             | e       |    |    | 13   |     |    |      |    |
| Roselend          | eP      |    |    | 21   | eS  | 57 | 24°4 |    |
| Tamanrasset       | eP      |    | 58 | 52   |     |    |      |    |
| Trieste           | i(SgSg) |    | 59 | 15   | i   |    | 59   | 26 |

inscrit à l'Aquila.

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Maroc. (Explosion de 15 Tonnes)

32°46' N ; 6°46' W ; H = 11h.43<sup>m</sup>.(32)S.(Rabat)

|          |    |    |    |      |    |    |    |         |     |     |
|----------|----|----|----|------|----|----|----|---------|-----|-----|
| Averroes | Pg | 11 | 43 | 46°5 | Sg | 11 | 43 | 55.5    | 85  | 0°8 |
| Ifrane   | P  |    |    | 58   | Sb |    |    | 44 18°5 | 175 | 1°6 |

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Région des Iles de la Reine Charlotte

52°1 N ; 130°5 W ; h = 33<sup>km</sup> ; H = 12h.24<sup>mn</sup>28<sup>s</sup>.(CGS)

M. = 4°5(Blue M.) ; 3°6(CGS) ; 3°2(Tonto Forest) ; 2°9(Eureka)

|              |    |    |    |                 |       |    |    |      |      |      |
|--------------|----|----|----|-----------------|-------|----|----|------|------|------|
| Newport      | eP | 12 | 26 | 42 <sup>D</sup> | e     | 12 | 29 | 28   | 1045 | 9°4  |
| Nordman      | eP |    |    | 42              | e     |    |    | 36   | 1036 | 9°3  |
| Edmonton     | eP |    | 27 | 07              |       |    |    |      | 1165 | 10°5 |
| Hungry Horse | eP |    |    | 10°8            |       |    |    |      | 1245 | 11°2 |
| Blue M.      | eP |    |    | 11°1            |       |    |    |      | 1285 | 11°4 |
| Jamestown    | eP |    | 28 | 12°6            |       |    |    |      | 1755 | 15°8 |
| Eureka       | eP |    |    | 16°2            |       |    |    |      | 1790 | 16°1 |
| Dugway       | eP |    |    | 23°3            |       |    |    |      | 1890 | 17°0 |
| China Lake   | P  |    |    | 45              | e     |    | 28 | 55   | 2080 | 18°7 |
| Uinta Basin  | eP |    |    | 45°2            |       |    |    |      |      |      |
| Tonto Forest | eP |    | 29 | 28°8            | e(PP) |    | 29 | 37°7 | 2500 | 22°5 |
| Albuquerque  | eP |    |    | 43°5            |       |    |    |      | 2700 | 24°3 |

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Crete médiane de l'Océan Atlantique Nord

33°9 N ; 33°9 W ; h = 33<sup>km</sup> ; H = 12h.32<sup>mn</sup>20<sup>s</sup>.(CGS)

M. = 5°5(La Paz - Newport) ; 5°2(La Palma) ; 5°0(Wichita M.) ; 4°9(Cumber-  
Land - Uinta Basin) ; 4°8(CGS - Dugway) ; 4°7(Albuquerque - Blue M.) ;  
4°5(Tonto Forest) ; 4°4(Eureka) ; 4°3(Golden)

|          |    |    |    |    |  |  |  |  |  |  |
|----------|----|----|----|----|--|--|--|--|--|--|
| Averroes | eP | 12 | 37 | 56 |  |  |  |  |  |  |
|----------|----|----|----|----|--|--|--|--|--|--|

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|                |     |       |       |        |          |      |      |
|----------------|-----|-------|-------|--------|----------|------|------|
| Frobisher      | eP  | 12 39 | 10.6  |        |          | 3890 | 35.0 |
| Cumberland Pl. | eP  |       | 38.8  |        |          | 4235 | 38.1 |
| Tamanrasset    | eP  |       | 56    |        |          |      |      |
| Lanto          | P   | 40    | 06.1  |        |          | 4635 | 41.7 |
| Kasperské Hory | eIP |       | 10    |        |          | 4590 | 41.3 |
| Pruhonice      | eP  |       | 11    |        |          | 4665 | 42.0 |
| Niedzica       | eP  |       | 42    |        |          |      |      |
| Tulsa          | eP  |       | 43    |        |          | 5120 | 46.1 |
| Kiruna         | iP  | 41    | 00.7  |        |          |      |      |
| Wichita M.     | eP  |       | 02.5  | ePPS   | 12 48 18 | 5410 | 48.7 |
| Resolute       | eP  |       | 03    |        |          | 5420 | 48.8 |
| La Palma       | eP  |       | 10    | e      | 41 15.7  | 5480 | 49.3 |
| Sodankylä      | eP  |       | 11    |        |          |      |      |
| Oulu           | eP  |       | 13    |        |          |      |      |
| Kajaani        | iP  |       | 20    |        |          |      |      |
| Golden         | iP  |       | 31.2  |        |          | 5835 | 52.5 |
| Edmonton       | eP  |       | 47    |        |          | 6080 | 54.7 |
| Albuquerque    | eP  |       | 49    | d      | 56       | 6080 | 54.7 |
| Mould Bay      | eP  |       | 50.2C |        |          | 6120 | 55.1 |
| Cochabamba     | eP  |       | 51.2  |        |          |      |      |
| Uinta Basin    | eP  |       | 52.5  | e(PCP) | 42 57.9  | 6155 | 55.4 |
| Butte          | eP  |       | 56.1  |        |          | 6210 | 55.9 |
| Hungry Horse   | eP  |       | 57.1  |        |          | 6255 |      |
| La Paz         | eP  | 42    | 06.4  |        |          | 6365 | 57.3 |
| Penas          | P   |       | 06.7  |        |          |      |      |
| Dugway         | eP  |       | 08.1  |        |          | 6420 | 57.8 |
| Nordman        | iP  |       | 10.8  |        |          | 6445 | 58.0 |
| Newport        | eP  |       | 12    |        |          | 6465 | 58.2 |
| Tonto Forest   | eP  |       | 17.2  | EPS    | 50 30    | 6520 | 58.7 |
| Tucson         | rP  |       | 19    |        |          | 6565 | 59.1 |
| Blue M.        | eP  |       | 20.2  |        |          | 6600 | 59.4 |
| Eureka         | iP  |       | 28.4  |        |          | 6700 | 60.3 |
| Bangui         | iP  |       | 28.7C | iPP    | 44 17.7  |      |      |
| Isabella       | P   |       | 51    | e      | 42 57    | 7065 | 63.6 |
| Karoi          | eP  | 44    | 42    |        |          |      |      |

inscrit à Istanbul Uti, l'Aquila, Strasbourg,

M' Bour.

XXXVI. 15 janvier  
Sicile

37°8N, 13°2E

H = 13<sup>h</sup>41.9<sup>m</sup> (BCIS)

37°8N, 12°8E

h = 33 km

H = 13<sup>h</sup>43<sup>m</sup>05<sup>s</sup> (CGS)

M = 5.3 (CGS, Bangui), 4.38 (Roma)

Messina ING iPn

13 42 38.5

iSn 13 43 03.1

Messina iPn

39.1

iSn 07.8

Reggio Calabria e

50.2

i 44 16

Sétif iP

43 36

680 6.1

Monaco eP

49.2

La Moutte eP

52.4

Lorgues eP

53.8

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|                |       |            |         |            |      |      |
|----------------|-------|------------|---------|------------|------|------|
| Isola          | iP    | 13 43 58.1 |         |            | 855  | 7.7  |
| Cadarache      | eP    | 59.3       | e       | 13 45 30.5 |      |      |
| Lanslevillard  | eIP   | 44 11.5    | eI      | 51.4       |      |      |
| Monteynard     | eP    | 17         |         |            |      |      |
| Roselend       | eP    | 21         |         |            |      |      |
| Kasperské Hory | eP    | 43         |         |            |      |      |
| Haudompré      | eP    | 45.7       |         |            |      |      |
| Le Pouchou     | eP    | 45.8       |         |            |      |      |
| Archignac      | eP    | 46.6       |         |            |      |      |
| Champ du Feu   | eP    | 47         |         |            |      |      |
| Les Buteaux    | eP    | 4 6        |         |            |      |      |
| St Saulge      | eP    | 50.2       |         |            | 1290 | 11.6 |
| Sommée Lormes  | eP    | 50.7       |         |            | 1280 | 11.5 |
| Garchy         | eP    | 55         |         |            |      |      |
| La Frestale    | eP    | (58)       |         |            |      |      |
| Ljubljana      | ePn   | 45 05      | eSn     | 13 46 40   |      |      |
| Moxa           | eP    | 09         |         |            | 1435 | 12.9 |
| Trieste        | e(Sn) | 25         | i(SgSg) | 11         |      |      |
| Collm          | eP    | 29         |         |            | 1500 | 13.5 |
| Tamanrasset    | iP    | 53C        |         |            | 1800 | 16.2 |
| Nurmijaervi    | eP    | 47 17      | e       | 52 04      | 2665 | 24.0 |
| Bangui         | iP    | 48 45.1    |         |            | 3745 | 33.7 |
| Lamto          | P     | 58.2       |         |            | 3935 | 35.4 |
| La Paz         | eP    | 55 16      |         |            |      |      |

inscrit à l'Aquila, Istanbul tti, Toledo, M' Bour,  
Roma, Niedzica.

XXXVII. 15 Janvier  
Région de l'île Kodiak

58°3N, 152°0W h = 33km H = 14<sup>h</sup>40<sup>mn</sup>14<sup>s</sup> (CGS)

|                 |    |            |    |            |     |     |
|-----------------|----|------------|----|------------|-----|-----|
| Blg Mountain    | iP | 14 40 42.1 | i  | 14 40 45.1 | 200 | 1.8 |
| Sparrevohn      | iP | 41 00.3    |    |            | 335 | 3.0 |
| Palmer          | eP | 03         | eS | 41 43.5    | 355 | 3.2 |
| Mts Sheep Creek | eP | 12.2       |    |            | 420 | 3.8 |
| Black Rapids    | eP | 37.6       | e  | 45.6       | 620 | 5.6 |
| College         | eP | 48         | e  | 56         | 720 | 6.5 |
| Gilmore Creek   | eP | 50         |    |            | 735 | 6.6 |
| Pedro Dome      | eP | 51         |    |            | 735 | 6.6 |
| Uinta Basin     | eP | 46 37.3    |    |            |     |     |

inscrit à Tonto Forest

XXXVIII. 15 Janvier  
Sicile (Réplique)

37°3N, 13°2E

H = 14<sup>h</sup>59<sup>mn</sup>50<sup>s</sup> (BCIS)

H = 14<sup>h</sup>59<sup>mn</sup>(30)<sup>s</sup> (ING)

M = 4.4 (Roma)

|                 |     |     |            |     |            |
|-----------------|-----|-----|------------|-----|------------|
| Messina         | ING | ePn | 15 00 13.2 | iSn | 15 00 39.2 |
| Messina         |     | iPn | 13.6       | i n | 41.6       |
| Reggio Calabria |     | eP  | 14.6       | i   | 59.2       |

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|                  |      |       |      |      |       |      |
|------------------|------|-------|------|------|-------|------|
| Taran to         | eP   | 15 00 | 54.5 | e(S) | 15 01 | 26.8 |
| Sétif            | iP   | 01    | 22.5 |      |       |      |
| La Mourre        | eP   |       | 26.9 |      |       |      |
| St Paul en Forêt | eP   |       | 28.3 |      |       |      |
| Lorgues          | eP   |       | 29.2 |      |       |      |
| Sommée Lormes    | eP   |       | 29.2 |      |       |      |
| Isola            | iP   |       | 34   |      |       |      |
| Ljubljana        | ePn  |       | 40   |      |       |      |
| Lanslevillard    | eP   |       | 55   | eiS  | 03    | 41.7 |
| Kasperské Hory   | eP   | 02    | 24.5 |      |       |      |
| Les Buteaux      | eipP |       | 33.5 |      |       |      |
| Garchy           | eP   |       | 34.6 | e    | 02    | 36.5 |
| Haudompré        | eipP |       | 35.1 |      |       |      |
| Ciné             | eipP |       | (37) |      |       |      |
| Champ du Feu     | eipP |       | 37   |      |       |      |
| Sommée Lormes    | eipP |       | 37.6 |      |       |      |
| St Saulge        | eipP |       | 37.6 |      |       |      |
| Campulung        | (P)  |       | 39   |      |       |      |
| Pr u honice      | eipP |       | .7   |      |       |      |
| Moxa             | e    |       | 58   |      |       |      |
| Toledo           | eP   | 03    | 03.6 | LQ   | 07    | 20   |
| Krakow           | eP   | 04    |      | ePP  | 03    | 12   |
| Collm            | eP   | 04    |      | e    |       | 13   |
| Tamanrasset      | eP   | 29    |      | i    |       | 39   |
| Ifrane           | eP   |       | 30   |      |       |      |
| Averroes         | eP   |       | 54   |      |       |      |
| Uddeholm         | iP   | 04    | 4 96 |      |       |      |
| Lillehammer      | iP   |       | 59.2 |      |       |      |
| Nurmijaervi      | eP   | 05    | 0 7  |      |       |      |
| Skalstugan       | iP   |       | 21.8 |      |       |      |
| Kajaani          | iP   |       | 42D  |      |       |      |
| Kiruna           | eP   | 06    | 01   |      |       |      |
| Bangui           | i    |       | 32.7 |      |       |      |

Inscrit à Istanbul Ut1, l'Aquila,  
Monteynard, Roma.

XXXIX. 15 janvier

Sicile

Réplique : H = 15 04.1<sup>mm</sup> (ING)

M = 3.48 (Messina)

|                  |      |       |      |   |       |      |
|------------------|------|-------|------|---|-------|------|
| Messina          | e    | 15 04 | 48.8 | e | 15 05 | 08.6 |
| La Mourre        | eipP | 05    | 53.9 |   |       |      |
| St Paul en forêt | eipP |       | 54.2 |   |       |      |
| Lorgues          | eipP |       | 55.7 |   |       |      |
| Isola            | e    |       | 59.5 |   |       |      |

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XL. 15 janvier  
Sicile

Réplique : H = 15<sup>h</sup>15<sup>mn</sup>(00)<sup>s</sup> (ING)

M = 3.60 (Roma)

|                   |     |       |      |   |       |      |
|-------------------|-----|-------|------|---|-------|------|
| Messina           | e   | 15 15 | 53.6 | i | 15 16 | 21.6 |
| La Mourre         | eip | 17    | 04.2 |   |       |      |
| St Paul en Forete | eip |       | 06.2 |   |       |      |
| Lorgues           | eip |       | 07.2 |   |       |      |
| Isola             | e   |       | 11   |   |       |      |
| Roma              | e   | 17    |      | e | 17    | 37   |

inscrit à Messina ING

XLI. 15 janvier  
Sicile

Réplique : H = 15<sup>h</sup>21<sup>mn</sup>(00)<sup>s</sup> (ING)

M = 3.41 (Messina)

Lorgues eP 15 24 03.8

inscrit à Messina.

XLII. 15 janvier  
Sicile

Réplique : H = 15<sup>h</sup>38<sup>mn</sup>(00)<sup>s</sup> (ING)

M = 4.32 (Roma)

|                   |     |         |      |     |       |      |
|-------------------|-----|---------|------|-----|-------|------|
| Messina           | ePn | 15 38   | 42.2 | 1Sg | 15 39 | 17.2 |
| Messina           | ePn |         | 45.4 | 1Sn |       | 13.9 |
| Roma              | e   | 39 12   |      | e   |       | 58   |
| La Mourre         | eP  |         | 57.2 |     |       |      |
| St Paul en Forete | eP  |         | 58.  |     |       |      |
| Lorgues           | eP  | 40 00.2 |      |     |       |      |

inscrit à l'Aquila.

XLIII. 15 janvier  
Sicile

Réplique : H = 15<sup>h</sup>38.6<sup>mn</sup> (ING)

M = 4.08 (Roma)

|             |    |       |       |         |       |    |
|-------------|----|-------|-------|---------|-------|----|
| Messina ING | e  | 15 39 | 52.2  |         |       |    |
| Roma        | e  |       | 42 11 |         |       |    |
| Trieste     | ei |       | 18    | e(SSES) | 15 42 | 30 |

inscrit à Reggio Calabria.

XLIV. 15 janvier  
Sicile

Réplique : H = 16<sup>h</sup>34<sup>mn</sup>(33)<sup>s</sup> (ING)

M = 4.00 (Roma)

Roma e 16 36 53 e 16 37 13

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XLV.- 15 Janvier

Sicile .

Réplique : H = 16h.49.1<sup>mn</sup>(ING)

M. = 3.60(Roma)

|                |      |            |     |          |
|----------------|------|------------|-----|----------|
| Messina        | iPn  | 16 49 48.7 | iSn | 16 50 15 |
| Messina ING    | ePn  | 49.1       | iSn | 14.6     |
| Roma           | e    | 50 18      | eS  | 51 03    |
| Sétif          | eP   | 50         |     |          |
| La Mourre      | eP   | 51 03.7    |     |          |
| St. Paul en F. | eP   | 04.3       |     |          |
| Isola          | e    | 10.4       |     |          |
| Lansievilleard | eip  | 18.7       | ei  | 31.8     |
| Roselend       | eP   | 32         |     |          |
| Garchy         | e    | 52 02.6    |     |          |
| Tamanrasset    | e(P) | 53 07      |     |          |

inscrit à Reggio-Calabria

XLVI.- 15 Janvier

Ilot Mathew.

Vers 22° 3/4 S ; 171° 1/4 E ; H = 17h.02<sup>mn</sup>35s.(Nouméa)

M. = 4.2(Nouméa)

|          |    |                         |    |            |
|----------|----|-------------------------|----|------------|
| Ouanaham | iP | 17 03 36.5 <sup>C</sup> | iS | 17 04 25.5 |
| Nouméa   | iP | 43.3 <sup>C</sup>       | iS | 35.5       |
| Koumac   | iP | 04 16.9 <sup>C</sup>    | iS | 05 35.5    |

inscrit à Port Vila.

XLVII.- 15 Janvier

Mer de Banda.

6°9 S ; 129°5 E ; h = 33<sup>km</sup> ; H = 17h.30<sup>mn</sup>44<sup>ss</sup>(CGS)

M. = 5.0(CGS - Port Moresby)

|                 |    |                   |    |          |      |      |
|-----------------|----|-------------------|----|----------|------|------|
| Warramunga      | eP | 17 33 58          |    | 1535     | 13.8 |      |
| Port Moresby    | eP | 34 49.5           |    | 1965     | 17.7 |      |
| Charters Towers | eP | 35 28             | iS | 17 39 12 | 2320 | 20.9 |
| Meekatharra     | iP | 42.8 <sup>D</sup> |    |          |      |      |
| Kalgoorlie      | iP | 36 09.5           |    |          |      |      |
| Mundaring       | iP | 33.9              |    |          | 3090 | 27.8 |
| Brisbane        | eP | 50                |    |          | 3345 | 30.1 |
| Adélaïde        | eP | 53                | i  | 37 17    |      |      |
| Toolangi        | eP | 37 33             |    |          | 3755 | 33.8 |



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|             |      |    |    |                   |  |       |       |
|-------------|------|----|----|-------------------|--|-------|-------|
| Shillong    | 1P   | 17 | 39 | 28                |  | 5420  | 48.8  |
| Quetta      | eP   |    | 41 | 56.4 <sup>D</sup> |  | 7810  | 70.3  |
| Chiraz      | 1P   |    | 43 | 02.9 <sup>C</sup> |  | 9100  | 81.9  |
| Uinta Basin | ePKP |    | 49 | 26.1              |  |       |       |
| La Paz      | PKP  |    | 50 | 34                |  | 16765 | 150.9 |
| Penas       | PKP  |    |    | 35.2              |  | 16765 | 150.9 |

XLVIII.- 15 Janvier

Sicile.

37° 8 N ; 15° 2 E ; H = 17h.31.9<sup>mm</sup> (BCIF)  
Réplique : H = 17h.31.7<sup>mm</sup> (ING)

M. = 4.31 (Roma)

|                   |       |    |    |                   |        |    |    |      |
|-------------------|-------|----|----|-------------------|--------|----|----|------|
| Messina ING       | 1Pn   | 17 | 32 | 26.7              | 1Sn    | 17 | 32 | 51.2 |
| Messina           | 1Pn   |    |    | 27.2              | 1Sn    |    |    | 55   |
| Reggio_Calabria   | e     |    |    | 36.1              | i      |    | 33 | 10.1 |
| Roma              | e     |    | 33 | 21                | e      |    |    | 31   |
| Sétif             | eP    |    |    | 24.5              |        |    |    |      |
| La Mourre         | eP    |    |    | 36.5              |        |    |    |      |
| St. Paul en Foret | eP    |    |    | 40.9              |        |    |    |      |
| Isola             | i     |    |    | 46.7              |        |    |    |      |
| Lanslevillard     | eP    |    | 34 | 01                | eiS    |    | 35 | 45.7 |
| Roselend          | eP    |    |    | 08                |        |    |    |      |
| l'Aquila          | e(Sg) |    |    | 30                |        |    |    |      |
| Haudompré         | eP    |    |    | 35                |        |    |    |      |
| Champ du Feu      | eP    |    |    | 35.4              |        |    |    |      |
| Les Buteaux       | eP    |    |    | 35.9              |        |    |    |      |
| St. Saulge        | eP    |    |    | 38.7              |        |    |    |      |
| Sommée Lornes     | eP    |    |    | 39.3              |        |    |    |      |
| Garchy            | i     |    |    | 44.6 <sup>C</sup> |        |    |    |      |
| Collm             | e     |    | 35 | 17                |        |    |    |      |
| Trieste           | eS    |    |    | 30                | eiSgSg |    | 36 | 11   |
| Tamarasset        | e(P)  |    |    | 42 <sup>D</sup>   |        |    |    |      |
| Uddeholm          | 1P    |    | 36 | 52.5              |        |    |    |      |
| Bangui            | i     |    | 38 | 33.4              | i      |    | 38 | 42.8 |

XLIX.- 15 Janvier

Iles Loyauté

Vers 21° 0 S ; 169° 0 E ; H = 18h.16<sup>mm</sup> 19s. (Nouméa)

P. = 3.4 (Nouméa)

|           |    |    |    |                   |    |    |    |      |
|-----------|----|----|----|-------------------|----|----|----|------|
| Ouanaham  | 1P | 18 | 16 | 37.3 <sup>D</sup> | 1S | 18 | 16 | 51.5 |
| Nouméa    | 1P |    | 17 | 01.1 <sup>D</sup> | 1S |    | 17 | 33   |
| Port Vila | 1P |    |    | 07.6 <sup>D</sup> | 1S |    |    | 44.5 |

Inscrit à Koumac.

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L... 15 Janvier

Sicile.

37°7 N ; 13°1 E ; h = 6km ; H = 18h.22<sup>mn</sup>50-1s.(CGS)  
 37°4 N ; 12°3 E ; H = 18h.22<sup>mn</sup>49s.(URSS)  
 H = 18h.22<sup>mn</sup>(40)s.(ING)

M. = 4°66(Roma); 4°5(Wlchita M.); 4°4(Pruhonicce); 4°1(CGS);  
 4°0(Blue M.)

|                   |       |            |     |             |      |      |
|-------------------|-------|------------|-----|-------------|------|------|
| Reggio_Calabria   | e     | 18 23 26.1 | i   | 18 23(53.1) |      |      |
| Messina           | iPn   | 27.7       | iSn | 53.7        | 230  | 2.1  |
| Messina ING       | iPn   | 27.8       | iSn | 53.8        | 225  | 2.0  |
| Taranto           | e(Pn) | 24 01      | eSn | 24 52       | 475  | 4.3  |
| Roma              | e     | 22         | iS  | 49          | 465  | 4.2  |
| Sétif             | iP    | 25.5       |     |             | 700  | 6.3  |
| Monaco            | eP    | 39.5       |     |             | 825  | 7.4  |
| La Mourre         | eIP   | 40.5       |     |             | 840  | 7.6  |
| St. Paul en Foret | eIP   | 42         |     |             | 845  | 7.6  |
| Lorgues           | eIP   | 43.3       |     |             | 855  | 7.7  |
| Cadarache         | eP    | 46.2       | i   | 26 19.5     | 905  | 8.2  |
| Isola             | iP    | 47.6       |     |             | 880  | 7.9  |
| Trieste           | eP    | 48.8       | e   | 24 53.8     | 890  | 8.0  |
| Ljubljana         | ePn   | 56         |     |             | 935  | 8.4  |
| Pavia             | e     | 25 00      |     |             | 895  | 8.0  |
| Roselend          | eP    | 09.7       | ei  | 25 12.1     |      |      |
| Monteynard        | eIP   | 10         |     |             | 1015 | 9.1  |
| l'Aquila          | ei(S) | 16         | ei  | 26 02       | 515  | 4.7  |
| Vouglans          | eP    | 23         |     |             | 1145 | 10.3 |
| La Frestale       | eIP   | 25.5       |     |             | 1305 | 11.8 |
| Le Pouchou        | eIP   | 25 33      |     |             | 1260 | 11.4 |
| Archignac         | eIP   | 36.2       |     |             | 1275 | 11.5 |
| Les Buteaux       | eIP   | 37         |     |             | 1275 | 11.5 |
| Kasperské Hory    | eIP   | 37         |     |             | 1265 | 11.4 |
| Haudompré         | eIP   | 37.2       |     |             | 1270 | 11.4 |
| Welschbruch       | eIP   | 37.4       |     |             |      |      |
| Champ du Feu      | eIP   | 37.4       |     |             | 1280 | 11.5 |
| St. Saulge        | eIP   | 39.4       |     |             |      |      |
| Sommée Lormes     | eIP   | 39.4       |     |             |      |      |
| Cine              | eP    | (41)       |     |             | 1320 | 11.9 |
| Campulung         | eP    | 42         |     |             | 1320 | 11.9 |
| Toulx Ste Croix   | eIP   | 42.2       |     |             |      |      |
| Garchy            | iP    | 45.1C      |     |             | 1345 | 12.1 |
| Pruhonicce        | eP    | 50         |     |             | 1365 | 12.3 |
| Vrincioaia        | P     | 57         |     |             |      |      |
| Moxa              | eP    | 57.5       |     |             | 1445 | 13.0 |
| Niedzica          | eP    | 26 00      |     |             | 1425 | 12.8 |
| Krakow            | eP    | 02         | ePP | 26 13       | 1475 | 13.3 |
| Collm             | eP    | 06         | e   | 16          | 1510 | 13.6 |

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|               |      |                   |      |          |      |      |
|---------------|------|-------------------|------|----------|------|------|
| Toledo        | eP   | 18 26 07          | LQ   | 18 28 45 |      |      |
| Kichinev      | eP   | 27                |      |          | 1655 | 14'9 |
| Ifrane        | eP   | 27                |      |          | 1710 | 15'4 |
| Tamanrasset   | eP   | 43                |      |          | 1800 | 16'2 |
| Lanslevillard | iS   | 47'1              |      |          | 985  | 8'9  |
| Uppsala       | iP   | 27 49'7           |      |          | 2480 | 22'3 |
| Uddeholm      | iP   | 50'8              |      |          | 2490 | 22'4 |
| Lillehammer   | eP   | 28 01             |      |          | 2600 | 23'4 |
| Bakouriani    | eP   | 04'4              |      |          | 2630 | 23'7 |
| Nurmijaerwi   | eP   | 05                | e    | 32 46    | 2665 | 24'0 |
| Tabriz        | eP   | 28                |      |          |      |      |
| Bangui        | iP   | 30'8 <sup>D</sup> | 1(S) | 33 29'6  |      |      |
| Kajaani       | e(P) | 59                | 1    | 29 23'8  | 3090 | 27'8 |
| Kiruna        | e(P) | 29 13             |      |          | 3385 | 30'6 |
| Chiraz        | P    | 34.1              |      |          | 3755 | 33'8 |
| Lamto         | P    | 49'4              |      |          | 3935 | 35'4 |
| Sverdlovsk    | eP   | 57                |      |          |      |      |
| Quetta        | eP   | 31 06'6           |      |          | 4980 | 44'8 |
| Godhavn       | iP   | 24'2              |      |          | 5220 | 47'0 |
| Talgar        | eP   | 32                |      |          | 5350 | 48'1 |
| Uméa          | eSS  | 33 47             |      |          | 2945 | 26'5 |
| Wichita M.    | eP   | 35 27'6           |      |          | 9335 | 84'0 |
| Uinta Basin   | eP   | 35'3              |      |          |      |      |
| Blue M.       | eP   | 37                |      |          | 9600 | 86'4 |

inscrit à Windhoek - M'Bour - Bucaresti - Strasbourg - Istanbul UTI -  
Cuglieri - Pavia.

LI. - 15 Janvier

Formose Bay (Kenya)

2°7 S ; 40°2 E ; H = 18<sup>h</sup>.23<sup>mm</sup>20s. (Bulawayo)

M. = 4'5 (Bulawayo)

|             |    |          |    |          |
|-------------|----|----------|----|----------|
| Broken Hill | eP | 18 27 07 | eS | 18 30 05 |
| Karoi       | eP | 20       | eS | 23       |
| Bulawayo    | iP | 28 00    | eL | 33 59    |

LII. - 15 Janvier

Sicile.

Réplique : H = 18<sup>h</sup>.51'2<sup>mm</sup>(ING)

M. = 3'50 (Messina)

|         |     |            |     |            |
|---------|-----|------------|-----|------------|
| Messina | ePn | 18 51 50'2 | iSn | 18 52 17'8 |
| Lorgues | eIP | 53 04'5    |     |            |

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Pyrénées.

Données discordantes.

|             |                 |          |                  |            |
|-------------|-----------------|----------|------------------|------------|
| Bagnères    | eP <sub>g</sub> | 19(08)33 | eIS <sub>g</sub> | 19(08)42.5 |
| Locrono     | eP <sub>n</sub> | 09 50    | eS <sub>n</sub>  | 10 11      |
| Le Pouchou  | eP              | 10 01.5  |                  |            |
| La Frestale | eP <sub>g</sub> | 02       |                  |            |
| Archignac   | eP <sub>g</sub> | 07.6     |                  |            |
| Tortosa     | IP <sub>g</sub> | 30       | IS <sub>g</sub>  | 46         |

LIV.- 15 Janvier

Nord Est de la Chine

37°8 N ; 115°3 E ; h = 33<sup>km</sup> ; H = 19<sup>h.33<sup>mm</sup>58.9<sup>s.</sup></sup>(CGS)  
 38°3 N ; 115°1 E ; H = 19<sup>h.34<sup>mm</sup>03<sup>s.</sup></sup>(URSS)

M. = 5.6(Uppsala - Kiruna); 5.2(Nurmijaerwi - College - Eureka);  
 5.1(Dugway - Kajaani); 5.0(Nairobi); 4.9(CGS); 4.8(Blue M. -  
 Golden); 4.7(Tonto Forest); 4.5(Mt. Tsukuba)

|               |    |                      |    |          |           |
|---------------|----|----------------------|----|----------|-----------|
| Séoul         | eP | 19 36 05             |    | 1035     | 9.3       |
| Oulan Bator   | eP | 46                   | eS | 19 39 07 | 1315 13.8 |
| Shiraki       | eP | 37 20.4              |    | 1600     | 14.4      |
| Esen-Boulak   | P  | 51                   |    | 1935     | 16.5      |
| Matsushiro    | IP | 38 10.9              | eS | 41 40    | 2035 18.3 |
| Dodaira       | eP | 23                   |    | 2135     | 19.2      |
| Mt. Tsukuba   | eP | 27.1                 |    | 2210     | 19.9      |
| Sodaibo       | IP | 31 <sup>C</sup>      |    | 2230     | 20.1      |
| Bamio         | eP | 51                   | eS | 42 54    | 2420 21.8 |
| Shillong      | IP | 39 05                | IS | 43 22    | 2590 23.3 |
| Yakoutsk      | IP | 29 <sup>D</sup>      |    | 2870     | 25.8      |
| Chittagong    | eP | 31                   | eS | 44 06    | 2820 25.4 |
| Chatra        | eP | 35                   |    | 2895     | 26.1      |
| Semipalatinsk | eP | 47.4                 |    | 3095     | 27.9      |
| Talgar        | eP | 40 00                |    | 3240     | 29.2      |
| Frounze       | eP | 20.5                 |    | 3465     | 31.2      |
| Dehra Dun     | eP | 23                   |    | 3510     | 31.6      |
| New Dehli     | eP | 32                   |    | 3655     | 32.9      |
| Tiksi         | eP | 46                   |    | 3845     | 34.6      |
| Khorog        | eP | 49                   |    | 3825     | 34.4      |
| Karsak        | eP | 56.2                 |    | 3940     | 35.5      |
| Tachkent      | eP | 57 <sup>C</sup>      |    | 3925     | 35.3      |
| Quetta        | eP | 41 36.3 <sup>C</sup> |    | 4490     | 40.4      |
| Sverdlovsk    | eP | 39                   |    | 4485     | 40.4      |
| Kodalkanal    | IP | 42 05                |    | 4850     | 43.7      |
| Eheis         | eP | 35                   |    | 5305     | 47.7      |
| Chiraz        | P  | 43 08                |    | 5735     | 51.6      |
| Kirovabad     | P  | 10                   |    | 5805     | 52.2      |
| Apatly        | IP | 13 <sup>D</sup>      |    | 5855     | 52.7      |

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|                 |     |       |                 |    |            |       |      |
|-----------------|-----|-------|-----------------|----|------------|-------|------|
| Moskva          | eP  | 19 42 | 15              |    |            | 5910  | 53*2 |
| Kermanshah      | eP  |       | 22              |    |            | 6010  | 54*1 |
| Barrow          | iP  |       | 22              |    |            | 6010  | 54*1 |
| Kevo            | eP  |       | 25              | i  | 19 43 33*8 | 6055  | 54*5 |
| Bakouriani      | eP  |       | 25*2            |    |            | 5960  | 53*8 |
| Sodankylä       | eP  | 43    | 28              |    |            | 6145  | 55*3 |
| Kajaani         | iP  |       | 34              |    |            | 6200  | 55*8 |
| Oulu            | eP  |       | 38              |    |            | 6245  | 56*2 |
| Kiruna          | iP  |       | 46*7            |    |            | 6375  | 57*4 |
| Nurmijaerwi     | eP  |       | 52              |    |            | 6480  | 58*3 |
| Unéa            | iP  |       | 57*3            |    |            | 6550  | 58*9 |
| College         | iP  |       | 58*9            |    |            | 6590  | 59*3 |
| Pedro Dome      | iP  |       | 59*2            |    |            | 6590  | 59*3 |
| Warramunga      | iP  | 44    | 03              |    |            | 6685  | 60*2 |
| Black Rapids    | iP  |       | 07*1            |    |            | 6735  | 60*6 |
| Mts Sheep Creek | eP  |       | 10              |    |            | 6755  | 60*8 |
| Mould Bay       | eP  |       | 11              |    |            | 6800  | 61*2 |
| Skalstugan      | iP  |       | 18*8            |    |            | 6915  | 62*2 |
| Uddeholm        | iP  |       | 29*7            |    |            | 7045  | 63*4 |
| Charters Towers | eP  |       | 33              |    |            | 7165  | 64*5 |
| Krakow          | eP  |       | 38              |    |            | 7250  | 65*2 |
| Niedzica        | eP  |       | 39              |    |            | 7269  | 65*3 |
| Resolute        | eP  |       | 42*7C           |    |            | 7345  | 66*1 |
| Collm           | eP  |       | 59              |    |            | 7590  | 68*3 |
| Kasperské Hory  | ei  | 45    | 04              | e  | 47 34      | 7700  | 69*3 |
| Roselend        | eP  |       | 30              |    |            | 8340  | 75*1 |
| Lanslevillard   | eiP |       | 39              | ei | 46 03*5    | 8350  | 75*2 |
| Adélaïde        | iP  |       | 41 <sup>D</sup> |    |            | 8400  | 75*6 |
| Sommeé Lormes   | eP  |       | 44*1            |    |            | 8395  | 75*5 |
| Les Buteaux     | eP  |       | 44*6            |    |            | 8405  | 75*7 |
| St. Saulge      | eP  |       | 44*9            |    |            | 8425  | 75*8 |
| Toolangi        | eP  | 46    | 06              |    |            | 8890  | 80*0 |
| Edmonton        | eP  |       | 07              |    |            | 8900  | 80*1 |
| Nairobi         | iP  |       | 18*5            |    |            | 9080  | 81*7 |
| Nordman         | eP  |       | 19              |    |            | 9145  | 82*3 |
| Newport         | eP  |       | 20              |    |            | 9165  | 82*5 |
| Hungry Horse    | eP  |       | 25*1            |    |            | 9300  | 83*7 |
| Toledo          | eiP |       | 32              | LR | 20 22 00   | 9420  | 84*8 |
| Blue M.         | eP  |       | 32*8            |    |            | 9455  | 85*1 |
| Oroville        | eP  |       | 42*5            |    |            | 9680  | 87*1 |
| Mt. Hamilton    | eP  |       | 49*3C           |    |            | 9845  | 88*6 |
| Jamestown       | eP  |       | 52*4C           |    |            | 9865  | 88*8 |
| San Luis Dam    | eP  |       | 54*5            |    |            | 9900  | 89*1 |
| Priest          | eP  |       | 56*4C           |    |            | 10010 | 90*1 |
| Eureka          | iP  |       | 57*8            |    |            | 9990  | 89*9 |
| Dugway          | eP  | 47    | 01*6            |    |            | 10090 | 90*8 |
| Flaming Gorge   | eP  |       | 05              |    |            | 10190 | 91*7 |
| Uinta Basin     | eP  |       | 06              |    |            |       |      |
| Goldstone       | iP  |       | 11              |    |            | 10300 | 92*7 |
| Golden          | eP  |       | 17*5            |    |            | 10480 | 94*3 |
| Tonto Forest    | eP  |       | 27*2            |    |            | 10700 | 96*3 |
| Roma            | eS  | 54    | 35              |    |            |       |      |

Inscrit à Strasbourg - Uccle - Wichita M. - Bokaro.

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Données insuffisantes . H = 19<sup>h</sup>.46<sup>m</sup>.9<sup>mn</sup>

|                |      |       |                   |      |       |      |
|----------------|------|-------|-------------------|------|-------|------|
| Wien           | OPg  | 19 47 | 11.9 <sup>D</sup> | 1Sg  | 19 47 | 23.5 |
| Bratislava     | IP   |       | 17.3              |      |       |      |
| Ljubljana      | eP   |       | 26                |      |       |      |
| Kasperské Hory | e    |       | 35                | eISg | 48    | 01   |
| Trieste        | e    |       | 35.8              | e    | 47    | 56.5 |
| Pruhonice      | eIPg |       | 43                | eISg | 48    | 15   |
| Collm          | e    | 49    | 06                |      |       |      |

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Iles aux Renards (Aléoutiennes)

52°7 N ; 171°0 W ; h = 33<sup>km</sup> ; H = 20<sup>h</sup>.47<sup>mn</sup>37<sup>s</sup>-(CGS)

M. = 4.5(Dugway) ; 4.4(Eureka - Wichita M.) ; 4.3(CGS) ; 4.1(Tonto-Fordst) ;  
4.0(Golden).

|                 |    |       |      |    |       |      |      |      |
|-----------------|----|-------|------|----|-------|------|------|------|
| Adak            | IP | 20 48 | 30.5 | 1S | 20 49 | 14.2 | 390  | 3.5  |
| Big Mountain    | eP | 50    | 14   |    |       |      | 1235 | 11.1 |
| Sparrevohn      | eP |       | 25   |    |       |      | 1320 | 11.9 |
| Mts Sheep Creek | eP | 51    | 17   |    |       |      | 1735 | 15.6 |
| Black Rapids    | eP |       | 33   |    |       |      | 1890 | 17.0 |
| College         | eP |       | 34   |    |       |      | 1890 | 17.0 |
| Pedro Dome      | eP |       | 37   |    |       |      | 1910 | 17.2 |
| Barrow          | eP | 52    | 07.5 |    |       |      | 2190 | 19.7 |
| Newport         | eP | 54    | 18   |    |       |      | 3765 | 33.9 |
| Nordman         | eP |       | 18   |    |       |      | 3755 | 33.8 |
| Bozeman SSS     | eP |       | 57.5 |    |       |      | 4280 | 38.5 |
| Eureka          | IP | 55    | 06.2 |    |       |      | 4380 | 39.4 |
| Dugway          | eP |       | 17.5 |    |       |      | 4545 | 40.9 |
| Goldstone       | P  |       | 24   | SP | 55    | 39   | 4620 | 41.6 |
| Uinta Basin     | eP |       | 32.8 |    |       |      |      |      |
| Golden          | eP |       | 55   |    |       |      | 5080 | 45.7 |
| Tonto Forest    | eP |       | 58.2 |    |       |      | 5065 | 45.6 |
| Tucson          | eP | 56    | 09   |    |       |      | 5255 | 47.3 |
| Wichita M.      | eP |       | 51.2 |    |       |      | 5890 | 53.0 |
| Kajaani         | IP | 57    | 47   |    |       |      | 6965 | 62.7 |

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Sicile.

37°8 N ; 13°2 E ; H = 22<sup>h</sup>.19<sup>mn</sup>56<sup>s</sup>.(BCIS)

37°8 N ; 12°9 E ; h = 33<sup>km</sup> ; H = 22<sup>h</sup>.19<sup>mn</sup>57<sup>s</sup>.(CGS)

Réplique : H = 22<sup>h</sup>.19<sup>mn</sup>(48)<sup>s</sup>.(ING)

M. = 5.4(Bangui) ; 5.0(Godhavn) ; 4.7(CGS) ; 4.6(Wichita M.) ;  
4.4(Blue M.) ; 4.34(Roma)

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|                  |       |       |                   |     |       |      |      |      |
|------------------|-------|-------|-------------------|-----|-------|------|------|------|
| Messina ING      | 1Pn   | 22 20 | 30.2              | 1Sg | 22 21 | 06.6 |      |      |
| Messina          | 1Pn   |       | 31.3              | 1Sn | 20    | 58.3 |      |      |
| Reggio_Calabria  | eP    |       | 35.9              | e   | 21    | 09.9 |      |      |
| Roma             | eP    | 21    | 06                | eS  |       | 46   | 455  | 4.2  |
| Sétif            | eP    |       | 28                |     |       |      |      |      |
| Isola            | 1P    |       | 50.8              |     |       |      | 865  | 7.8  |
| Cadarache        | eP    |       | (52.5)            | 1   | 23 23 | 24.4 |      |      |
| Trieste          | ePn   |       | 55                | 1SS | 24    | 06   | 890  | 8.0  |
| Ljubljana        | ePn   |       | 59                |     |       |      |      |      |
| Lanslevillard    | eP    | 22    | 03                |     |       |      |      |      |
| Monteynard       | eP    |       | 08.5              |     |       |      |      |      |
| Sofia            | eP    |       | 11.8              |     |       |      |      |      |
| Roselend         | eP    |       | 13                | e1  | 22    | 15.2 |      |      |
| l'Aquila         | e1(S) |       | 16                | e   | 23    | 04   |      |      |
| Fürstenfeldbruck | e1PP  |       | 35                |     |       |      |      |      |
| Kasperské Hory   | P     |       | 40 <sup>C</sup>   |     |       |      | 1265 | 11.4 |
| Les Buteaux      | eP    |       | 40.8              |     |       |      |      |      |
| Strasbourg       | eP    |       | 41.5              | eLM | 26-30 |      |      |      |
| St. Saulge       | eP    |       | 42.8              |     |       |      |      |      |
| Sommée Lormes    | eP    |       | 44.3              |     |       |      |      |      |
| Cine             | eP    |       | (46)              |     |       |      |      |      |
| Garchy           | eP    |       | 48                |     |       |      |      |      |
| Campulung        | eP    |       | 49                |     |       |      | 1335 | 12.0 |
| Pruhonice        | eP    |       | 51                |     |       |      | 1365 | 12.3 |
| Moxa             | eP    | 23    | 00.5              |     |       |      | 1435 | 12.9 |
| Niedzica         | eP    |       | 01                |     |       |      |      |      |
| Krakow           | eP    |       | 07                |     |       |      |      |      |
| Toledo           | eP    |       | 09.8              | LR  | 25    | 50   |      |      |
| Collm            | eP    |       | 19                |     |       |      | 1500 | 13.5 |
| Ifrane           | eP    |       | 32                |     |       |      | 1690 | 15.2 |
| Tamanrasset      | eP    |       | 44                | 1   |       | 52   | 1800 | 16.2 |
| Uddeholm         | 1P    | 24    | 53.3              |     |       |      |      |      |
| Tabriz           | eP    | 25    | 25                |     |       |      |      |      |
| Skalstugan       | 1P    |       | 26.3              |     |       |      |      |      |
| Kiruna           | eP    | 26    | 06                |     |       |      |      |      |
| Bangui           | 1P    |       | 37.3 <sup>D</sup> |     |       |      | 3745 | 33.7 |
| Lamto            | P     |       | 51.3              |     |       |      | 3935 | 35.4 |
| Godhavn          | 1P    | 28    | 26.2              |     |       |      | 5210 | 46.9 |
| Hungry Horse     | eP    | 32    | 15.6              |     |       |      | 9120 | 82.1 |
| Wichita M.       | eP    |       | 25.5              |     |       |      | 9320 | 83.9 |
| Blue M.          | eP    |       | 37.1              |     |       |      | 9590 | 86.3 |
| Uinta Basin      | eP    |       | 39.0              |     |       |      |      |      |
| Dugway           | eP    |       | 44.9              |     |       |      | 9755 | 87.8 |
| Cochabamba       | P     | 33    | 15.7              |     |       |      |      |      |
| La Paz           | P     |       | 30.8              |     |       |      |      |      |
| Penas            | P     |       | 32.8              |     |       |      |      |      |

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Sicile.

Réplique : H = 23<sup>h</sup> 11<sup>m</sup> (00) S. (ING)

M. = 3.35 (Messina)

|             |    |            |   |            |
|-------------|----|------------|---|------------|
| Messina     | e  | 23 11 57.3 | 1 | 23 12 19.3 |
| Messina ING |    | 12(00)     |   |            |
| Lorgues     | eP | 13 07.2    |   |            |

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Sicile.

Réplique

37°7 N ; 13°3 E ; H = 00<sup>h</sup>.54<sup>m</sup>07<sup>s</sup>. (BCIS)  
 37°6 N ; 12°8 E ; h = 33<sup>km</sup> ; H = 00<sup>h</sup>.54<sup>m</sup>09<sup>s</sup>. (CGS)  
 H = 00<sup>h</sup>.54<sup>m</sup>00<sup>s</sup>. (ING)

M. = 5.4 (Bangui); 4.8 (CGS)

|                 |      |                         |     |            |           |
|-----------------|------|-------------------------|-----|------------|-----------|
| Messina ING.    | ePn  | 00 54 39.8              | 1Sg | 00 55 16.8 |           |
| Messina         | ePn  | 41.9                    | 1Sn | 08.9       |           |
| Reggio Calabria | e    | 42.7                    | 1   | 23.4       |           |
| Roma            | eP   | 55 14.7                 | eSb | 56 05.7    | 480 4.3   |
| Sétif           | eP   | 38                      |     |            | 680 6.1   |
| La Nouvelle     | eP   | 53.9                    |     |            |           |
| St. Paul en F.  | e1P  | 55.2                    |     |            |           |
| Lorgues         | eP   | 56.7                    |     |            |           |
| Isola           | 1P   | 56 01.0                 |     |            | 880 7.9   |
| Lanslevillard   | eP   | 15                      |     |            |           |
| Monteynard      | eP   | 17.5                    |     |            |           |
| Roselend        | eP   | 23.0                    | ei  | 56 24.4    |           |
| Les Buteaux     | eP   | 50.3                    |     |            |           |
| Kasperské Hory  | e1P  | 51                      |     |            |           |
| Handompré       | eP   | 51.4                    |     |            |           |
| Welschbruch     | ei   | 52                      |     |            |           |
| St. Saulge      | eP   | 53.0                    |     |            |           |
| Champ du Feu    | eP   | 53.0                    |     |            |           |
| Sommée Lormes   | eP   | 53.9                    |     |            |           |
| Garchy          | 1P   | 58                      |     |            |           |
| Krakow          | eP   | 57 05                   |     |            |           |
| Pruhonice       | eP   | 06                      |     |            | 1390 12.5 |
| Moxa            | eP   | 16.5                    |     |            | 1455 13.1 |
| Collm           | eP   | 30                      |     |            | 1539 13.8 |
| Trieste         | eiSn | 38                      | 1   | 58 21      |           |
| Tamanrasset     | eP   | 55 <sup>D</sup> /C      | e   | 01 01 21   | 1780 16.0 |
| Bangui          | 1P   | 01 00 47.6 <sup>D</sup> | 1PP | 49.6       | 3720 33.5 |



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|             |    |            |      |      |
|-------------|----|------------|------|------|
| Lanto       | P  | 01 01 01.8 | 3910 | 35.2 |
| Wichita M.  | eP | 06 39.3    |      |      |
| Uinta Basin | eP | 44.7       |      |      |

Inscrit à Istanbul UTI - Toledo.

II.- 16 Janvier

Sicile.

Réplique : H = 01<sup>h</sup>.11.4<sup>mn</sup>(ING)

|             |    |            |       |            |
|-------------|----|------------|-------|------------|
| Messina ING | e  | 01 12(00)? | e     | 01 12 49.8 |
| Messina     | e  | 16.4       | i     | 39.9       |
| Lorgues     | eP | 13 26.0    |       |            |
| Trieste     | e  | 14 14.5    | e(Sg) | 15 04      |

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Crête médiane de l'Océan Atlantique

8°2 N ; 38°2 W ; h = 33<sup>km</sup> ; H = 01<sup>h</sup>.58<sup>mn</sup>28<sup>s</sup>.(CGS)

M. = 4.2(Penas - CGS - Tonto Forest); 4.1(Uinta Basin - Blue M.)

|              |    |            |      |      |
|--------------|----|------------|------|------|
| La Paz       | eP | 02 05 49.4 | 4280 | 38.5 |
| Penas        | P  | 51.4       | 4290 | 38.6 |
| Tamarassat   | eP | 06 38.0    | 4930 | 44.4 |
| Uinta Basin  | eP | 09 42.2    | 7830 | 70.5 |
| Tonto Forest | eP | 48.9       | 7930 | 71.4 |
| Blue M.      | eP | 10 17.9    | 8500 | 76.5 |

inscrit à Wichita M.

IV.- 16 Janvier

Sicile.

Réplique : H = 02<sup>h</sup>.29.9<sup>mn</sup>(ING); M. = 3.47(Messina ING)

|             |    |            |   |            |
|-------------|----|------------|---|------------|
| Messina     | e  | 02 30 38.9 | i | 02 31 14.1 |
| Messina ING | e  | 31 11      |   |            |
| Lorgues     | eP | 49         |   |            |

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Sicile.

Réplique : H = 04<sup>h</sup>.09<sup>mn</sup>(08)<sup>s</sup>.(ING); M. = 3.76(Roma)

|                 |     |          |     |            |
|-----------------|-----|----------|-----|------------|
| Messina ING     | e   | 04 09 51 | e   | 04 10 31.7 |
| Messina         | ePn | 51.6     | iSn | 19.0       |
| Reggio Calabria | i   | 10(52.7) |     |            |

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|                   |     |            |   |            |  |
|-------------------|-----|------------|---|------------|--|
| La Murre          | eIP | 04 11 03.6 |   |            |  |
| St. Paul en Foret | eIP | 04.9       |   |            |  |
| Lorgues           | eIP | 06.3       |   |            |  |
| Isola             | i   | 10.4       |   |            |  |
| Roma              | e   | 13         | i | 04 11 46.7 |  |
| Ljubljana         | ePn | 19         |   |            |  |
| Lanslevillard     | e   | 22         | e | 13 05      |  |
| Tamar asset       | eP  | 13 05      |   |            |  |

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Région Est de l'Idaho(USA)

42°8 N ; 111°6 W ; h = 22km ; H = 06h.09<sup>mn</sup>22.4<sup>s</sup>. (CGS)

M. = 3.9 (Tonto Forest - CGS)

|                |     |            |     |            |     |     |
|----------------|-----|------------|-----|------------|-----|-----|
| Logan          | eP  | 06 09 41.3 | eL  | 06 09 59.2 | 110 | 1.0 |
| Salt Lake City | eP  | 56.1       | eL  | 10 23.5    | 220 | 2.0 |
| Flaming Gorge  | iPn | 10 01.0    | iLg | 33.5       | 280 | 2.5 |
| Dugway         | eP  | 05.6       | eL  | 43.4       | 300 | 2.7 |
| Bozeman SSS    | eP  | 06.2       | iL  | 41.0       | 310 | 2.8 |
| Uinta Basin    | ePn | 07.1       |     |            | 320 | 3.2 |
| Price          | eP  | 12.4       | eL  | 11 02.1    | 355 | 3.2 |
| Butte          | ePn | 14.4       | eLg | 02.6       | 370 | 3.3 |
| Blue M.        | eP  | 32.4       |     |            | 510 | 4.6 |
| Eureka         | iP  | 34.8       |     |            | 520 | 4.7 |
| Glen Canyon    | Pn  | 52.0       |     |            | 645 | 5.8 |
| Hungry Horse   | Pn  | 53.5       | e   | 10.2       | 645 | 5.8 |
| Golden         | ePn | 57.0       |     |            | 620 | 5.6 |
| Newport        | eP  | 11 02.0    | eL  | 12 46.0    | 745 | 6.7 |
| Nordman        | P   | 05         | eL  | 49.0       | 780 | 7.0 |
| Albuquerque    | eP  | 36.0       | eL  | 13 51.0    | 980 | 8.8 |
| Tonto Forest   | eP  | 33.4       |     |            | 945 | 8.5 |

VII.- 16 Janvier

Inde, région de Koyna

|            |     |                         |     |          |     |     |
|------------|-----|-------------------------|-----|----------|-----|-----|
| Poona      | iPg | 06 40 45.2 <sup>C</sup> | eSg | 06 41 02 |     |     |
| Bombay     | iPn | 55 <sup>C</sup>         | eSn | 18       | 200 | 1.8 |
| Kodaikanal | e   | 43 55                   |     |          |     |     |
| New Dehli  | e   | 07 02 28                |     |          |     |     |

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Grèce

38° N ; 22° 3/4 E ; H = 08h.32<sup>mn</sup>59<sup>s</sup>. ; M. = 2.9 (Athènes)

|         |      |                         |     |            |    |     |
|---------|------|-------------------------|-----|------------|----|-----|
| Athènes | eIPg | 08 33 13.7 <sup>C</sup> | iSg | 08 33 23.9 | 75 | 0.7 |
|---------|------|-------------------------|-----|------------|----|-----|

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Valsamata ePn 08 33 23.5 e(Sg) 08 33 56.5 180 1,6

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Utah (USA)

39°3 N ; 112°1 W ; h = 33km ; H = 08h.58mn44s.(CGS)

M. = 4.3(Albuquerque); 4.1(CGS); 3.9(Blue M.)

|                |     |            |      |            |      |      |
|----------------|-----|------------|------|------------|------|------|
| Price          | eP  | 08 59 00.4 | eL   | 08 59 13.7 | 110  | 1.0  |
| Dugway         | eP  | 01.8       | eL   | 16.7       | 120  | 1.1  |
| Salt Lake City | eP  | 08.6       | eL   | 31.8       | 170  | 1.5  |
| Uinta Basin    | ePg | 21.5       |      |            | 245  | 2.2  |
| Glen Canyon    | iPn | 22.1       | iLg  | 52.0       | 270  | 2.4  |
| Logan          | eP  | 22.4       | eL   | 59.3       | 270  | 2.4  |
| Flaming Gorge  | ePn | 27.2       | iLg  | 09 00 01.0 | 290  | 2.6  |
| Eureka         | eP  | 36.0       |      |            | 330  | 3.0  |
| Golden         | ePn | 09 00 00.9 |      |            | 580  | 5.2  |
| Albuquerque    | eP  | 14.0       |      |            | 700  | 6.3  |
| Tonto Forest   | e   | 14.2       | eLg  | 01 15.2    | 570  | 5.1  |
| Flagstaff      | e   | 20.0       | eS   | 00 44.0    | 444  | 4.0  |
| Jamestown      | eP  | 27.8       | e(S) | 02 09.8    | 745  | 6.7  |
| Blue M.        | ePn | 29.0       |      |            | 758  | 6.8  |
| Tucson         | e   | 40.0       |      |            | 790  | 7.1  |
| Lubbock        | e   | 01 46.0    |      |            | 1110 | 10.0 |

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Utah (USA)

39°3 N ; 112°1 W ; h = 33km ; H = 09h.17mn52.3s.(CGS)

M. = 3.9(CGS - Golden)

|                |     |            |     |            |     |     |
|----------------|-----|------------|-----|------------|-----|-----|
| Price          | eP  | 09 18 09.0 | eL  | 09 18 22.3 | 110 | 1.0 |
| Dugway         | eP  | 10.6       | eL  | 25.7       | 120 | 1.1 |
| Flagstaff      | eP  | 14.0       |     |            | 145 | 1.3 |
| Horse Canyon   | eP  | 15.1       |     |            | 158 | 1.4 |
| Bear Canyon    | eP  | 15.5       |     |            | 158 | 1.4 |
| Sheep Canyon   | eP  | 16.8       |     |            | 158 | 1.4 |
| Salt Lake City | eP  | 17.9       | eL  | 40.7       | 170 | 1.5 |
| Uinta Basin    | ePg | 29.4       | eLg | 57.8       | 245 | 2.2 |
| Glen Canyon    | iPn | 30.7       | iLg | 19 00.5    | 255 | 2.3 |
| Logan          | eP  | 31.6       | eL  | 18 04.9    | 280 | 2.5 |
| Flaming Gorge  | ePn | 35.2       | iLg | 19 10.0    | 290 | 2.6 |
| Eureka         | iP  | 39.2       |     |            | 330 | 3.0 |
| Golden         | ePn | 19 11.2    |     |            | 580 | 5.2 |
| Tonto Forest   | eP  | 19.6       | eLg | 20 23.8    | 555 | 5.0 |
| Albuquerque    | ePn | 22.5       | eL  | 21 07.0    | 690 | 6.2 |
| Blue M.        | ePn | 38.3       |     |            | 755 | 6.8 |
| Lasa Center    | eP  | 55.0       |     |            | 945 | 8.5 |

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Utah (USA)

39° 3' N ; 112° 1' W ; h = 33<sup>km</sup> ; H = 09h.20<sup>mm</sup>12.1<sup>s</sup>. (CGS)

|               |     |            |     |            |     |     |
|---------------|-----|------------|-----|------------|-----|-----|
| Dugway        | eP  | 09 20 30.5 | eL  | 09 20 45.8 | 120 | 1.1 |
| Flagstaff     | eP  | 33.4       |     |            | 145 | 1.3 |
| Horse Canyon  | eP  | 34.8       |     |            | 155 | 1.4 |
| Bear Canyon   | eP  | 34.9       |     |            | 155 | 1.4 |
| Sheep Canyon  | eP  | 36.5       |     |            | 155 | 1.4 |
| Glen Canyon   | iPn | 50.2       | iLg | 21 20.3    | 255 | 2.3 |
| Uinta Basin   | ePg | 50.5       | eLg | 17.6       | 245 | 2.2 |
| Flaming Gorge | ePn | 55.6       | iLg | 31.0       | 300 | 2.7 |
| Albuquerque   | ePn | 21 43.0    | e   | 22 06.0    | 690 | 6.2 |
| Tonto Forest  | eP  | 44.0       | eLg | 43.2       | 555 | 5.0 |
| Blue M.       | eP  | 22 11.7    |     |            | 755 | 6.8 |

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Utah (USA)

39° 2' N ; 111° 9' W ; h = 33<sup>km</sup> ; H = 09h.39<sup>mm</sup>54<sup>s</sup>. (CGS)

|               |      |            |     |            |     |     |
|---------------|------|------------|-----|------------|-----|-----|
| Uinta Basin   | ePg  | 09 40 28.3 | eLg | 09 40 55.3 | 245 | 2.2 |
| Glen Canyon   | Pn   | 29.5       | eLg | 58.0       | 245 | 2.2 |
| Flaming Gorge | ePn  | 35.5       | eLg | 41 09.0    | 290 | 2.6 |
| Eureka        | iP   | 42.8       | i   | 42 38.3    | 345 | 3.1 |
| Tonto Forest  | e(P) | 41 21.2    | eLg | 21.2       | 545 | 4.0 |
| Albuquerque   | e(P) | 44.0       |     |            | 680 | 6.1 |

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Sicile

Réplique : H = 09h.41<sup>mm</sup>18<sup>s</sup>. ~~IM~~M. = 3.67 (Messina ING)

|                        |     |            |     |             |  |  |
|------------------------|-----|------------|-----|-------------|--|--|
| Messina <del>L</del> g | Pn  | 09 41 57.4 | e   | 09 42(35.4) |  |  |
| Reggio Calabria        | e   | 57.4       |     |             |  |  |
| Messina                | ePn | 42 00      | iSn | 26.5        |  |  |
| La Mourre              | eIP | 43 12.6    |     |             |  |  |
| St. Paul en Forêt      | eIP | 14.3       |     |             |  |  |
| Lorgues                | eIP | 15.9       |     |             |  |  |
| Isola                  | i   | 19.0       |     |             |  |  |

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Utah (USA)

39° 3' N ; 112° 1' W ; h = 33<sup>km</sup> ; H = 09h.41<sup>mm</sup>46<sup>s</sup>. (CGS)

|       |    |            |  |  |     |     |
|-------|----|------------|--|--|-----|-----|
| Price | eP | 09 42 03.1 |  |  | 120 | 1.1 |
|-------|----|------------|--|--|-----|-----|

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|                |      |            |     |            |     |     |
|----------------|------|------------|-----|------------|-----|-----|
| Dugway         | eP   | 09 42 04.8 | eL  | 09 42 19.9 | 110 | 1.0 |
| Flagstaff      | eP   | 07.5       |     |            | 145 | 1.3 |
| Horse Canyon   | eP   | 08.7       |     |            | 155 | 1.4 |
| Bear Canyon    | eP   | 09.0       |     |            | 155 | 1.4 |
| Sheep Canyon   | eP   | 10.3       |     |            | 170 | 1.5 |
| Salt Lake City | eP   | 12.1       | eL  | 35.1       | 170 | 1.5 |
| Glen Canyon    | iPn  | 24.2       | iLg | 53.5       | 270 | 2.4 |
| Uinta Basin    | eP   | 24.3       | eLg | 51.9       | 245 | 2.2 |
| Logan          | eP   | 25.4       | eL  | 59.0       | 270 | 2.4 |
| Flaming Gorge  | ePn  | 29.8       | iLg | 43 05.0    | 290 | 2.6 |
| Golden         | ePn  | 43 05.0    |     |            | 580 | 5.2 |
| Tonto Forest   | eP   | 15.0       | eLg | 44 16.8    | 570 | 5.1 |
| Albuquerque    | eP   | 18.0       | e   | 43 39.0    | 700 | 6.3 |
| Tucson         | (Pn) | 21.5       |     |            | 790 | 7.1 |
| Blue M.        | ePn  | 22.6       |     |            | 755 | 6.8 |

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Utah (USA)

$39^{\circ}2'N$  ;  $112^{\circ}0'W$  ; h = 33km ; H = 09h.42<sup>mn</sup>54<sup>s</sup>. (CGS)

M. = 4.0 (CGS - Cumberland Pl.).

|                |     |            |     |            |      |      |
|----------------|-----|------------|-----|------------|------|------|
| Price          | eP  | 09 43 11.0 | eL  | 09 43 24.5 | 110  | 1.0  |
| Salt Lake City | eP  | 19.4       | eL  | 42.4       | 170  | 1.5  |
| Dugway         | eP  | 27.4       | eL  | 27.4       | 130  | 1.2  |
| Glen Canyon    | iPn | 31.9       | iLg | 44 01.5    | 255  | 2.3  |
| Uinta Basin    | eP  | 32.6       | eLg | 43 59.3    | 245  | 2.3  |
| Logan          | eP  | 33.5       | eL  | 44 05.9    | 280  | 2.5  |
| Flaming Gorge  | iPn | 37.5       | iLg | 10.7       | 290  | 2.6  |
| Flagstaff      | eP  | 48.0       | eS  | 56.0       | 430  | 3.9  |
| Albuquerque    | eP  | 44 24.0    | e   | 48.0       | 680  | 6.1  |
| Tonto Forest   | eP  | 24.8       | eLg | 45 25.2    | 555  | 5.0  |
| Blue M.        | ePn | 38.0       |     |            | 770  | 6.9  |
| Bitte          | eP  | 39.0       | e   | 46 26.8    | 755  | 6.8  |
| San Luis Dam   | eP  | 47.0       |     |            | 845  | 7.6  |
| Cumberland Pl. | eP  | 47 44.5    |     |            | 2370 | 21.3 |

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Iles aux Renards (Aléoutiennes)

$52^{\circ}6'N$  ;  $171^{\circ}4'W$  ; h = 33km ; H = 10h.02<sup>mn</sup>20<sup>s</sup>. (CGS)

M. = 4.1 (Uinta Basin) ; 3.9 (Dugway - CGS) ; 3.7 (Tonto Forest - Eureka)

|               |    |            |    |            |      |      |
|---------------|----|------------|----|------------|------|------|
| Adak          | iP | 10 03 10.5 | iS | 10 03 59.2 | 370  | 3.3  |
| College       | eP | 06 19.8    |    |            | 1910 | 17.2 |
| Gilmore Creek | eP | 21.7       |    |            | 1930 | 17.4 |
| Nordman       | eP | 09 03.0    |    |            | 3790 | 34.1 |
| Newport       | eP | 04.0       |    |            | 3790 | 34.1 |

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|              |    |            |      |      |
|--------------|----|------------|------|------|
| Blue M.      | eP | 10 09 19.4 | 3980 | 35.8 |
| Eureka       | iP | 50.6       | 4410 | 39.7 |
| Dugway       | eP | 10 04.2    | 4570 | 41.1 |
| Goldstone    | eP | 09.0       | 4645 | 41.8 |
| Uinta Basin  | eP | 18.0       | 4780 | 43.0 |
| Tonto Forest | eP | 41.2       | 5100 | 45.9 |
| Wichita M.   | eP | 11 38.5    |      |      |

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Région de la Nouvelle Bretagne  
 H = 10<sup>h</sup>.14<sup>m</sup>33<sup>s</sup>. ; M. = 5.1(Rabaul)

|                |    |                   |    |            |
|----------------|----|-------------------|----|------------|
| Keravat        | iP | 10 15 13          |    |            |
| Rabaul         | eP | 14.6              | iS | 10 15 46.0 |
| Wanliss Street | iP | 15.0              |    |            |
| Rabalanakala   | iP | 15.8 <sup>D</sup> |    |            |
| Sulphur        | iP | 15.8 <sup>D</sup> |    |            |

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Données insuffisantes

|               |     |          |     |            |
|---------------|-----|----------|-----|------------|
| Roselend      | ei  | 10 52 48 | iSg | 10 53 05.6 |
| Vouglans      | ei  | 53 12.6  | ei  | 14.8       |
| Les Bâteaux   | ePg | 18.8     |     |            |
| St. Saülge    | ePg | 20.2     |     |            |
| Sommée Lormes | ePg | 21.3     |     |            |

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Alpes Bernoises (Suisse)

|               |     |            |      |            |
|---------------|-----|------------|------|------------|
| Roselend      | e   | 11 37 37.4 | eiSg | 11 37 55.0 |
| Les Bâteaux   | eSg | 38 37.8    |      |            |
| Sommée Lormes | eSg | 40.1       |      |            |
| St. Saülge    | eSg | 49.4       |      |            |

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Maroc (Explosion de 15 Tonnes)

32° 46' N ; 6° 46' W ; H = 00km ; H = 11<sup>h</sup>.41<sup>m</sup>(24)<sup>s</sup>.(Rabat)

|          |    |            |    |            |     |     |
|----------|----|------------|----|------------|-----|-----|
| Averroes | Pg | 11 41 39.0 | Sg | 11 41 49.5 | 85  | 0.8 |
| Ifrane   | Pg | 53.3       | Sg | 42 13      | 175 | 1.6 |

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Sicile.

Réplique : H = 12<sup>h</sup>.11<sup>mn</sup>40<sup>s</sup>. (ING); M. = 3.6 (Roma)

|                 |     |           |     |            |
|-----------------|-----|-----------|-----|------------|
| Messina ING     | e   | 12 12(20) |     |            |
| Messina         | ePn | 20.5      | iSn | 12 12 47.1 |
| Reggio Calabria | e   | (49.2)    |     |            |
| Roma            | eSg | 13 46.5   |     |            |

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Région de la

Nouvelle Bretagne

H = 12<sup>h</sup>.16<sup>mn</sup>24<sup>s</sup>.; M. = 5.1 (Rabaul)

|                |    |                         |    |            |
|----------------|----|-------------------------|----|------------|
| Rabaul         | iP | 12 19 02.4 <sup>D</sup> | iS | 12 19 31.8 |
| Rabalanakaia   | iP | 02.6                    |    |            |
| Wanliss Street | iP | 03.0 <sup>D</sup>       |    |            |
| Keravat        | iP | 03 <sup>D</sup>         | iS | 28         |
| Sulphur Creek  | iP | 03.4                    |    |            |
| Port Moresby   | eP | 20 16                   | eS | 21 44      |

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Sicile.

Réplique.

37°8 N ; 12°9 E ; h = 33<sup>km</sup> ; H = 13<sup>h</sup>.10<sup>mn</sup>32<sup>s</sup>. (CGS)  
 37°7 N ; 13°3 E ; H = 13<sup>h</sup>.10.5<sup>mn</sup> (BCIS)  
 37°4 N ; 12°2 E ; H = 13<sup>h</sup>.10<sup>mn</sup>28<sup>s</sup>. (URSS)  
 H. = 13<sup>h</sup>.10.4<sup>mn</sup> (ING)

M. = 5.0 (Bangui); 4.6 (CGS); 4.33 (Roma); 4.1 (Pruhonice)

|                   |     |            |       |            |      |      |
|-------------------|-----|------------|-------|------------|------|------|
| Messina ING       | iPn | 13 11 04.5 | iSn   | 13 11 29.5 | 235  | 2.1  |
| Messina           | iPn | 05.5       | iSn   | 31.5       | 235  | 2.1  |
| Reggio Calabria   | ePn | 06.4       | i     | 45.0       | 245  | 2.2  |
| Roma              | e   | 12 00.5    | eSn   | 12 25      | 455  | 4.1  |
| Sétif             | eP  | 01.5       |       |            | 690  | 6.2  |
| Monaco            | eP  | 17.0       |       |            | 805  | 7.2  |
| La Mourre         | eiP | 17.6       |       |            | 820  | 7.4  |
| St. Paul en Forêt | eiP | 19.1       |       |            | 825  | 7.4  |
| Lorgues           | eiP | 20.5       |       |            | 835  | 7.5  |
| Isola             | iP  | 25.0       |       |            | 855  | 7.7  |
| Trieste           | ePn | 29.7       | e(Sn) | 13 54      | 880  | 7.9  |
| Ljubljana         | ePn | 34         |       |            | 925  | 8.3  |
| Lanslevillard     | eP  | 39         | eiS   | 14 25.1    | 970  | 8.7  |
| Monteynard        | eiP | 41         |       |            | 995  | 9.0  |
| Roselend          | eP  | 47.3       | e     | 12 49.2    | 1020 | 9.2  |
| l'Aquila          | eS  | 59         | e     | 15 18      | 505  | 4.6  |
| Vouglans          | eP  | 13 01.5    | e     | 13 07      | 1125 | 10.1 |
| Haudompré         | eiP | 13.6       |       |            | 1250 | 11.3 |
| Champ du Feu      | eiP | 14.7       |       |            | 1260 | 11.4 |

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|                |     |                      |                   |          |      |      |
|----------------|-----|----------------------|-------------------|----------|------|------|
| Kasperské Hory | eP  | 13 13 15             |                   |          | 1255 | 11'3 |
| Les Buteaux    | eIP |                      | 15.2              |          | 1255 | 11'3 |
| St. Saulge     | eIP |                      | 17.2              |          | 1290 | 11'6 |
| Sopméé Lormes  | eIP |                      | 17.5              |          | 1280 | 11'5 |
| Erlangen       | eP  |                      | 22.7              |          | 1330 | 11'9 |
| Garchy         | eP  |                      | 22.7 <sup>D</sup> |          | 1325 | 11'9 |
| Pruhonice      | eIP |                      | 23.7              |          | 1355 | 12'2 |
| Moxa           | eP  |                      | 33                |          | 1420 | 12'8 |
| Oujgorod       | eP  |                      | 35                |          | 1420 | 12'8 |
| Niedzica       | eP  |                      | 36                |          | 1420 | 12'8 |
| Collm          | eP  |                      | 52                |          | 1500 | 13'5 |
| Ifrane         | P   | 14 08                |                   |          | 1690 | 15'2 |
| Tamanrasset    | iP  |                      | 20.4 <sup>C</sup> |          | 1805 | 16'2 |
| Uddeholm       | iP  | 15 27.7              |                   |          | 2480 | 22'3 |
| Bakouriani     | iP  |                      | 43.1              |          | 2645 | 23'8 |
| Kongsberg      | e   |                      | 48                |          | 2430 | 21'9 |
| Moskva         | eP  |                      | 49                |          | 2715 | 24'5 |
| Kirovabad      | eP  | 16 03                |                   |          | 2885 | 26'0 |
| Skalstugan     | eP  |                      | 03                |          | 2870 | 25'8 |
| Lillehammer    | e   | 05                   | e                 | 13 16 55 | 2590 | 23'3 |
| Kiruna         | eP  |                      | 42                |          | 3375 | 30'4 |
| Sodankylä      | eP  |                      | 45                |          | 3400 | 30'6 |
| Bangui         | iP  | 17 13.1 <sup>C</sup> | ipp               | 17 20.6  | 3745 | 33'7 |
| Lamto          | P   |                      | 26.5              |          | 3930 | 35'4 |
| Blue M.        | eP  | 22 53.4              |                   |          | 9580 | 86'2 |

Inscrit à Istanbul UTI - Strasbourg - Toledo - Clermont -  
M'Bour - Pavia.

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Côte Sud de la Norvège.

58°0 N ; 8°0 E ; H = 13<sup>h</sup> 15<sup>m</sup> 00<sup>s</sup>. (Uppsala)

|            |     |            |     |            |     |     |
|------------|-----|------------|-----|------------|-----|-----|
| Göteborg   | iPg | 13 15 41.9 | iSg | 13 16 10.6 | 240 | 2'1 |
| Uddeholm   | iPg | 16 10.7    | iSn | 41.0       | 395 | 3'6 |
| Uppsala    | iSn | 17 22.1    |     |            | 590 | 5'3 |
| Karlskrona | eSg | 24         |     |            | 505 | 4'5 |
| Skalstugan | eSn | 45         |     |            | 665 | 6'0 |

Inscrit à Uméa.

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Sicile.

Réplique : H = 13<sup>h</sup> 21<sup>m</sup> (05)<sup>s</sup>. (ING); M. = 3.42 (Messina Uni.)

|           |    |            |   |            |  |  |
|-----------|----|------------|---|------------|--|--|
| Messina   | e  | 13 21 48.5 | i | 13 21 52.5 |  |  |
| La Mourre | eP | 23 00.2    |   |            |  |  |



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Lorgues eP 13 23 02.2  
St. Paul en Foret eP 02.6

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Nouvelles Hébrides (Ile Espiritu Santo)  
H = 13<sup>h</sup>46<sup>mn</sup>51<sup>s</sup>.; M = 4.0(Nouméa)

|            |     |                         |    |          |
|------------|-----|-------------------------|----|----------|
| Luganville | iP  | 13 47 04.2 <sup>D</sup> | iS | 13 47 15 |
| Port Vila  | iP  | 16.8 <sup>C</sup>       | iS | 39       |
| Ouanaham   | dIP | 53.1                    | iS | 48 42    |
| Koumac     | iP  | 48 05.6                 | iS | 49 01    |
| Nouméa     | iP  | 17.7 <sup>D</sup>       | iS | 24       |

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Yougoslavie

44° 2 N ; 19° 5 E ; H = 13<sup>h</sup>48<sup>mn</sup>27<sup>s</sup>. (BCIS)

|            |       |            |        |            |     |     |
|------------|-------|------------|--------|------------|-----|-----|
| Beograd    | iPg   | 13 48 42.8 | iSg    | 13 49 01.0 | 105 | 0.9 |
| Zagreb     | ePn   | 49 10.2    | eSg    | 50 08.1    | 335 | 3.0 |
| Sofia      | ePn   | 18.8       | eSg    | 06.5       | 345 | 3.1 |
| Trieste    | ePn   | 27         | i(Sn)  | 19         | 485 | 4.4 |
| Niedzica   | eipn  | 44         | e(PPP) | 49 58      | 485 | 5.3 |
| Bratislava | eIPg  | 49.5       | ei     | 50 04.5    | 485 | 4.4 |
| Ljubljana  | e(Pg) | 53         | iSn    | 22.0       | 445 | 4.0 |
| Wien       | eSg   | 52         |        |            | 515 | 4.6 |
| Krakow     | eSg   | 40         |        |            | 655 | 5.9 |

inscrit à Kasp erské Hojy, Campulung, Pruhonice,  
Collberg, Moxa.

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Nouvelles Hébrides (Ile Espiritu Santo)

16° 9 S, 167° 6 E H = 14<sup>h</sup>16<sup>mn</sup>36<sup>s</sup> M = 4.1 (Nouméa)

|            |     |                         |    |            |
|------------|-----|-------------------------|----|------------|
| Port Vila  | iP  | 14 16 55.4 <sup>C</sup> | iS | 14 17 10.5 |
| Luganville | iP  | 57.7 <sup>C</sup>       | iS | 13.5       |
| Ouanaham   | eIP | 17 31.1                 | iS | 18 12      |
| Koumac     | iP  | 46.5                    | iS | 40         |
| Nouméa     | iP  | 56.1                    | iS | 57         |

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Sicile

République : H = 14<sup>h</sup>29<sup>mn</sup>(28) (ING)

M = 4.04 (Roma)

|                  |        |            |     |            |
|------------------|--------|------------|-----|------------|
| Messina          | (e Pn) | 14 30 07.6 | iSn | 14 30 32.0 |
| Messina          | ePn    | 08.5       | iSn | 36.0       |
| Reggio Calabria  | e      | 12.6       | i   | 31 00.6    |
| Roma             | ePg    | 33.5       | e   | 09.5       |
| La Mourre        | eIP    | 31 22.0    |     |            |
| St Paul en foret | eIP    | 22.3       |     |            |
| Lorgues          | eIP    | 23.8       |     |            |

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|               |     |    |    |                   |   |          |
|---------------|-----|----|----|-------------------|---|----------|
| Ljubljana     | ePn | 14 | 31 | 27                |   |          |
| Isola         | i   |    |    | 27.9              |   |          |
| Lanslevillard | (P) |    |    | 44                | e | 14 33 29 |
| Roselend      | e   |    |    | 50                | e | 31 52    |
| Garchy        | i   |    | 32 | 27.2 <sup>D</sup> |   |          |
| Moxa          | e   |    |    | 45.5 5            |   |          |
| Collm         | e   |    |    | 57                |   |          |
| Tam anrasset  | e   |    | 33 | 27                |   |          |
| Trieste       | e   |    |    | 42                | e | 34 24    |

inscrit à Toledo, Les Buteaux, Sommée Lormes,

St Saulge.

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Iles Loyauté

20° 1/2<sup>S</sup> 168° 3/4<sup>E</sup> H = 15<sup>h</sup>16<sup>mn</sup>53<sup>s</sup>  
M = 3.4 (Nouméa)

|           |     |    |    |      |      |            |
|-----------|-----|----|----|------|------|------------|
| Ouanaham  | iP  | 15 | 17 | 19.7 | 18   | 15 17 37.5 |
| Nouméa    | iP  |    |    | 42.0 | 18   | 18 15      |
| Port Vila | eIP |    |    | 42.4 | 1(8) | 11         |

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Ré p l i que

|              |                      |  |
|--------------|----------------------|--|
| 37°9N, 13°1E | n = 14 <sup>km</sup> | H = 16 <sup>h</sup> 42 <sup>mn</sup> 44.3 <sup>S</sup> (CGS) |
| 37°7N, 13°3E |                      | H = 16 <sup>h</sup> 42 <sup>mn</sup> 45 <sup>S</sup> (BCIS)  |
| 37°8N, 12°7E |                      | H = 16 <sup>h</sup> 42 <sup>mn</sup> 45 <sup>S</sup> (URSS)  |
|              |                      | H = 16 <sup>h</sup> 42 <sup>mn</sup> (38) <sup>S</sup> (ING) |

Ressenti.

M = 6.7 (Stuttgart), 6.2 (Bangui), 5.9 (Niedzica), 5.8 (Uppsala, Krakow, Godhavn, Roma, Kiruna), 5.7 (Collm, Nurmijaervi), 5.6 (Moxa, Strasbourg, Praha, Pruhonice), 5.4 (Kajaani, URSS, Station Nord), 5.3 (Wichita M, Uinta Basin), 5.2 (Athènes, Addis Ababa, Tonto Forest), 5.1 (Dugway, CGS, North Pole), 4.7 (Cumberland Pl, Kobenhavn), 4.6 (Blue M), 4.5 (Bureka), 4.4 (Golden).

|                  |      |    |    |      |      |            |     |     |
|------------------|------|----|----|------|------|------------|-----|-----|
| Messina ING      | ePn  | 16 | 43 | 18.2 | 18n  | 16 43 42.2 | 220 | 2.0 |
| Messina          | iPn  |    |    | 19.5 | 18n  | 46.9       | 220 | 2.0 |
| Reggio Calabria  | ePn  |    |    | 20.7 | 18n  | (45)       | 225 | 2.0 |
| Roma             | iPn  |    |    | 47.4 | 18n  | 44 36.4    | 445 | 4.0 |
| Cagliari         | ePn  |    |    | 49   | eSn  | 36         | 465 | 4.2 |
| L'Aquila         | iPn  |    |    | 54   | eIPg | 10         | 495 | 4.5 |
| Monaco           | eIPn | 44 |    | 29.5 | eSn  | 45 53.7    | 805 | 7.2 |
| La Moudre        | eIP  |    |    | 31.3 |      |            | 825 | 7.4 |
| Lorgues          | eIP  |    |    | 34.2 |      |            | 840 | 7.5 |
| St Paul en Foret | eIP  |    |    | 34.2 |      |            | 830 | 7.5 |
| Genova           | ePn  |    |    | 35.0 |      |            | 805 | 7.2 |
| Sant Anna di Val | ePn  |    |    | 37.8 | eSn  | 46 06.2    | 860 | 7.7 |
| Iscia            | eP   |    |    | 38.3 |      |            | 870 | 7.8 |

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|                  |       |       |         |       |       |      |      |      |
|------------------|-------|-------|---------|-------|-------|------|------|------|
| Alger            | eP    | 16 44 | 39·5    |       |       |      | 895  | 8·1  |
| Trieste          | iPn   |       | 40      | i'Sn  | 16 46 | 04   | 870  | 7·8  |
| Pavia            | eP    |       | 45      | e     |       | 46   | 870  | 7·8  |
| Zagreb           | eP    |       | 46·6D   | eS    |       | 23·7 | 910  | 8·2  |
| Valsamata        | e(PG) |       | 47·0    |       |       |      | 660  | 5·9  |
| Athènes          | eP    |       | 47·0    | e     |       | 04·0 | 930  | 8·4  |
| Ljubljana        | iPn   |       | 47·3    | e(Sn) |       | 36   | 910  | 8·2  |
| Padova           | e     |       | 51      | eSn   |       | 09·7 | 840  | 7·6  |
| Lanslevillard    | eIP   |       | 55·2 5  | i     | 45    | 04·1 | 970  | 8·7  |
| Beograd          | ePn   |       | 55·7    | eSn   | 46    | 44·6 | 990  | 8·9  |
| Monteynard       | eP    |       | 57      |       |       |      | 1000 | 9·0  |
| Roselend         | eP    | 45    | 00      | eIk   | 45    | 35·5 | 1015 | 9·2  |
| Sofia            | eP    |       | 00·1    |       |       |      | 1020 | 9·2  |
| Tortosa          | iP    |       | 06      | iS    | 47    | 05   | 1130 | 10·2 |
| youglans         | eIP   |       | 14·1    | ei    | 45    | 22·2 | 1125 | 10·1 |
| Paraskevi        | eP    |       | 16·5    |       |       |      | 1155 | 10·4 |
| Furstenfeldbruck | eP    |       | 17      | iS    | 47    | 08   | 1155 | 10·4 |
| Basel            | P     |       | (18)    | (S)   |       | (19) | 1160 | 10·5 |
| Wien             | eIPn  |       | 20·3C   | eiSn  |       | 21   | 1190 | 10·7 |
| Bratislava       | eIP   |       | 22·4    | ei(S) |       | 31·4 | 1185 | 10·7 |
| Srobarova        | eIP   |       | 22·9    |       |       |      | 1180 | 10·6 |
| Alicante         | iP    |       | 24      | eS    |       | 22·5 | 1190 | 10·7 |
| Clermont         | iP    |       | 25      | eS    |       | 23·5 | 1205 | 10·8 |
| Stuttgart        | e     |       | 26·9(D) |       |       |      | 1130 | 10·2 |
| Kasperské Hory   | eIP   |       | 27·5    |       |       |      | 1255 | 11·3 |
| Welschbrunn      | iP    |       | 28·1    | i''   | 45    | 40·7 | 1255 | 11·3 |
| Les Buteaux      | eIP   |       | 28·3    |       |       |      | 1255 | 11·3 |
| Toulx Ste Croix  | eIP   |       | 28·3    |       |       |      | 1295 | 11·6 |
| Strasbourg       | eIP   |       | 29      | eiS   | 47    | 42   | 1260 | 11·4 |
| Sommée Lormes    | eIP   |       | 30·5    |       |       |      | 1290 | 11·6 |
| St Saulge        | eIP   |       | 30·5    |       |       |      | 1290 | 11·6 |
| Campulung        | P     |       | 33      |       |       |      | 1310 | 11·8 |
| Bucuresti        | P     |       | 35      | S     |       | 40   | 1305 | 11·8 |
| Erlangen         | eP    |       | 35·4C   | e(S)  | 48    | 09   | 1320 | 11·9 |
| Garchy           | iP    |       | 36·0C   |       |       |      | 1325 | 11·9 |
| Rhodes           | eP    |       | 39·8    |       |       |      | 1350 | 12·2 |
| Pruhonice        | eIP   |       | 40      |       |       |      | 1355 | 12·2 |
| Praha            | eP    |       | 42      | e     | 45    | 58   | 1355 | 12·2 |
| Karlsruhe        | e(P)  |       | 42·3D   | L     | 49    | 10   | 1290 | 11·6 |
| Almeria          | iP    |       | 44      | ePP   | 45    | 58   | 1380 | 12·4 |
| Niedzica         | eP    |       | 46      | ePP   |       | 58   | 1405 | 12·6 |
| Istanbul Uti     | eP    |       | 46      |       |       |      | 1410 | 12·7 |
| Istanbul Kand    | iP    |       | 46·1    |       |       |      | 1415 | 12·7 |
| Moxa             | eP    |       | 47·5    | eS    | 48    | 10   | 1420 | 12·8 |
| Raciborz         | eP    |       | 49      |       |       |      | 1415 | 12·7 |
| Oufgorod         | eP    |       | 49      | esp   | 45    | 56   | 1405 | 12·6 |
| Tannus           | eP    |       | 50      |       |       |      | 1415 | 12·7 |
| Chorzow          | eP    |       | 56      | ePP   | 46    | 07   | 1455 | 13·1 |
| Collm            | eP    |       | 57      | iPP   |       | 04   | 1490 | 13·4 |
| Krakow           | eP    |       | 57      | eS    | 48    | 31   | 1455 | 13·1 |
| Foczani          | eP    |       | 57      | e     | 47    | 02   | 1455 | 13·1 |
| Toledo           | iP    |       | 57·8    | iS    | 48    | 32   | 1500 | 13·5 |
| Bensberg         | eP    | 46    | 02C     | LR    | 49    | 48   | 1520 | 13·7 |

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|              |      |          |       |         |       |      |
|--------------|------|----------|-------|---------|-------|------|
| Ribnik       | ePP  | 16 43 03 | eL    | 16 51   | 1420  | 12.8 |
| Bacau        | (P)  | 04       | L     | 53 -    | 1485  | 13.4 |
| Easy         | (P)  | 09       | e     | 48 57   | 1485  | 13.4 |
| Malaga       | iP   | 10       | iS    | 42      | 1555  | 14.0 |
| St Sauveur   | eIP  | 10.7     |       |         | 1600  | 14.4 |
| Le Per tre   | eIP  | 11.2     |       |         | 1605  | 14.5 |
| Gorron       | eIP  | 12.4     |       |         | 1620  | 14.6 |
| Folini,are   | eIP  | 14.5     |       |         | 1630  | 14.7 |
| Kichinev     | iP   | 16       | iS    | 57      | 1640  | 14.8 |
| Uccle        | (P)  | 46 19    | e     | 48 46   | 1590  | 14.3 |
| De Bilt      | eP   | 20       | eS    | 49 23   | 16 85 | 15.3 |
| Ifrane       | PP   | 23.5 D   | L     | 52 -    | 17 10 | 15.4 |
| Warszawa     | eIP  | 32       | ePP   | 46 38   | 17 10 | 15.4 |
| Tamanrasset  | iP   | 34.4 D   |       |         | 18 25 | 16.4 |
| Witteveen    | e(P) | 35       |       |         | 17 30 | 15.6 |
| Rabat        | eP   | 43 D     | LM    | 55 -    | 18 45 | 16.6 |
| Hel wan      | iP   | 4 4.5    | i(S)  | 50 08 5 | 1 00  | 17.1 |
| Averroes     | P    | 47.5     | PP    | 47 00   | 19 20 | 17.3 |
| Porto        | eP   | 48.0     | i(S)  | 50 08.0 | 18 90 | 17.0 |
| Simferopol   | eP   | 49       |       |         | 19 15 | 17.2 |
| Kobenhavn    | iP   | 54.5     | iS    | 13      | 1980  | 17.8 |
| Karlskronana | iP   | 59.8     |       |         | 20 40 | 18.3 |
| Jerusalem    | iP   | 47 10.6  | iS    | 42.5    | 21 25 | 19.1 |
| Goteborg     | iP   | 16.6     |       |         | 22 05 | 19.8 |
| Durham       | iP   | 17       | iS    | 57      | 2180  | 19.6 |
| Sot chi      | iP   | 28       | esp   | 47 38   | 23 25 | 20.9 |
| Uppsala      | iP   | 39.7 D   | iS    | 51 42   | 24 70 | 22.2 |
| Uddeholm     | iP   | 41.4     |       |         | 25 80 | 23.2 |
| Lillehammer  | iP   | 51.4     |       |         | 26 25 | 23.6 |
| Bakouriani   | iP   | 55.5     | e(sp) | 48 21   | 26 25 | 23.6 |
| Nurmijaervi  | iP   | 56.9     | eS    | 52 12   | 26 45 | 23.8 |
| Poti         | eP   | 57.2     |       |         |       |      |
| Moskva       | eP   | 48 01    | eS    | 21      | 27 00 | 24.3 |
| Poulkovo     | iP   | 04       | iS    | 24      | 27 20 | 24.5 |
| Tbilisi      | P    | 05       |       |         | 27 30 | 24.6 |
| Skalstugan   | iP   | 14.2     |       |         | 28 55 | 25.7 |
| Uméa         | iP   | 20.4     | iS    | 50      | 29 20 | 26.3 |
| Tabriz       | eIP  | 20.5     | eIS   | 58      | 29 00 | 26.1 |
| Coris        | iP   | 22 D     |       |         | 28 80 | 25.9 |
| Makhatchkala | eP   | 25       |       |         | 29 45 | 26.5 |
| Kajaani      | iP   | 32.0     | eS    | 53 13   | 30 80 | 27.7 |
| Kermanshah   | eP   | 35       |       |         | 30 70 | 27.6 |
| Oulu         | eP   | 37       |       |         | 31 40 | 28.2 |
| Kiruna       | iP   | 55.4     | iS    | 55      | 33 5  | 30.3 |
| Téhéran      | eP   | 49 00    |       |         | 34 00 | 30.6 |
| Sodankylae   | iP   | 00.1     |       |         | 33 90 | 30.5 |
| Kevo         | eP   | 20       |       |         | 36 45 | 32.8 |
| Kizyl Arvat  | P    | 26       |       |         | 37 30 | 33.6 |
| Bangui       | iP   | 26.6 C   | iS    | 54 10.6 | 37 4  | 33.7 |
| Chiraz       | eIP  | 27       |       |         | 37 55 | 33.8 |
| Lamto        | P    | 41.4     |       |         | 39 5  | 35.5 |
| Sverdlovsk   | eP   | 49       | S     | 55 31   | 40 45 | 36.4 |
| Mashad       | eP   | 56       |       |         | 40 90 | 36.8 |

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|                |      |       |       |      |            |       |      |      |
|----------------|------|-------|-------|------|------------|-------|------|------|
| Addis Ababa    | 1P   | 16 49 | 57°6  |      |            | 4100  | 36°9 |      |
| Samarka nd     | eP   | 50    | 33    |      |            | 4615  | 41°5 |      |
| Tachkent       | eP   |       | 43C   |      |            | 4755  | 42°8 |      |
| Douchambé      | 1P   |       | 48C   |      |            | 4795  | 43°2 |      |
| Garm           | eP   |       | 56    |      |            | 4910  | 44°2 |      |
| Qetta          | eP   | 51    | 00°0C | eS   | 16 57      | 36°0  | 4980 | 44°8 |
| Station Nord   | 1P   |       | 01°9  |      |            | 5010  | 45°1 |      |
| Nairobi        | eP   |       | 02°2  |      |            | 4970  | 44°7 |      |
| Kheis          | eP   |       | 08    |      |            | 5105  | 45°9 |      |
| Khcrog         | eP   |       | 09C   |      |            | 5085  | 45°6 |      |
| Frounze        | eP   |       | 12C   |      |            | 5135  | 46°2 |      |
| Godhavn        | 1P   |       | 15°0  |      |            | 5210  | 46°9 |      |
| Talgar         | eP   |       | 25    |      |            | 5340  | 48°0 |      |
| Sempalat i nsk | eP   |       | 28°6  |      |            | 5355  | 48°2 |      |
| Fro bisher     | eP   | 52    | 01°1C |      |            | 5910  | 53°2 |      |
| New Dehli      | eP   |       | 06°0  |      |            | 5945  | 53°5 |      |
| Broken Hill    | eP   |       | 09    |      |            | 6005  | 54°0 |      |
| Bombay         | eP   |       | 17    |      |            | 6105  | 54°9 |      |
| Karoi          | eP   |       | 29    |      |            | 6290  | 56°6 |      |
| Resclute       | eP   |       | 40°0  |      |            | 6490  | 58°4 |      |
| Bulawayo       | eP   |       | 49    |      |            | 6615  | 59°5 |      |
| Windhoek       | 1P   |       | 54°0C |      |            | 6695  | 60°3 |      |
| Tiksi          | P    | 53    | 03    | (PP) | 16 53 19   | 6875  | 61°9 |      |
| Pretoria       | (P)  |       | 04°4  |      |            | 7210  | 64°9 |      |
| Breba ut       | eP   |       | 06    |      |            | 6910  | 62°2 |      |
| Chatra         | 1P   |       | 08    |      |            | 6895  | 62°1 |      |
| North pole     | eP   |       | 09°2  |      |            | 6910  | 62°2 |      |
| Bokaro         | eP   |       | 15    |      |            | 6950  | 62°5 |      |
| Bodajbo        | eP   |       | 20°5  |      |            | 7130  | 64°2 |      |
| Shillong       | 1P   |       | 34    |      |            | 7370  | 66°3 |      |
| Changalane     | eP   |       | 36°0  |      |            | 7370  | 66°3 |      |
| Yakoutsk       | 1P   |       | 45D   |      |            | 7570  | 68°1 |      |
| Morgantown     | 1P   |       | 54°8D |      |            | 7680  | 69°1 |      |
| Cumberland Pl  | eP   | 54    | 28°2  |      |            | 8345  | 75°1 |      |
| Pedro Dome     | eP   |       | 34°0  |      |            | 8480  | 76°3 |      |
| Gilmore Creek  | eP   |       | 36°0  |      |            | 8490  | 76°4 |      |
| Magada n       | eP   |       | 39    |      |            | 8535  | 76°8 |      |
| Edmonton       | eP   |       | 43°0  |      |            | 8680  | 78°1 |      |
| Caracas        | e(P) |       | 46°0  | e1S  | 17 04 16   | 8420  | 75°8 |      |
| Manhattan      | eP   |       | 52°0  |      |            | 8870  | 79°8 |      |
| Palmer         | eP   |       | 55°2  |      |            | 8870  | 79°8 |      |
| Hungry Horse   | eP   | 55    | 04°9  | e    |            | 28°9  | 9120 | 82°1 |
| Newport        | eP   |       | 12°0  |      |            | 9280  | 83°5 |      |
| Nordman        | eP   |       | 12°0  |      |            | 9230  | 83°1 |      |
| Wichita M.     | eP   |       | 14°6  | eS   |            | 05 46 | 9320 | 83°9 |
| Golden         | eP   |       | 17°5  |      |            | 9380  | 84°4 |      |
| Flaming Gorge  | eP   |       | 22°9  | i    | 16 56 35°0 |       | 9510 | 85°6 |
| Blue M.        | eP   |       | 25°4  |      |            | 9590  | 86°3 |      |
| Uinta Basin    | eP   |       | 25°5  | eSP  | 17 07 00   |       | 9670 | 86°1 |
| M'bour         | eS   |       | 28    | ePCS | 16 56 01   |       | 9640 | 85°5 |
| Salt Lake City | eP   |       | 32°0  |      |            | 9655  | 86°9 |      |
| Dugway         | eP   |       | 33°5  |      |            | 9770  | 87°9 |      |
| Albuquerque    | eP   |       | 37°0  |      |            | 9820  | 88°4 |      |

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|              |      |            |                |        |       |
|--------------|------|------------|----------------|--------|-------|
| Eureka       | iP   | 16 55 43.9 |                | 9 880  | 89.9  |
| La palma     | e'P  | 50.4       |                | 10080  | 90.7  |
| Tonto Forest | eP   | 51.0       | ePP 16 59 40.3 | 10 170 | 91.5  |
| Penas        | eP   | 55.0       |                | 10 380 | 93.4  |
| La Paz       | eP   | 55.0       |                | 10 355 | 93.2  |
| Oroville     | eP   | 5.0        |                | 10 270 | 92.4  |
| Tucson       | eP   | 57.4       |                | 10 310 | 92.8  |
| Isabella     | P    | 58 04      |                | 10 470 | 94.2  |
| Bvrd         | ePKP | 17 02 03.1 |                | 14900  | 134.1 |
| Toolangi     | PKP  | 17.0       |                | 158 55 | 142.7 |
| Canberra     | ePKP | 21         |                | 160 0  | 144.8 |

Inscrit à Pasadena, Hermanus, Lomé, Ponta Delgada,  
Lisboa, Nat.Uni. Mexico, Vrincoiaia, Le Pouchou, Haudompré,  
Champ du Feu, Archignac, La Frestale, Ciné.

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Réplique : H = 17h 27<sup>mn</sup> (42) s (ING)

M = 3.58 (Messina ING)

|                  |       |          |     |          |
|------------------|-------|----------|-----|----------|
| Messina ING      | (e)Pn | 17 28 20 | eSg | 17 28 54 |
| Messina          | ePn   | 20.6     | iSg | 46       |
| Reggio Calabria  | eSg   | 29 02.1  |     |          |
| La Mourre        | eIP   | 32.1     |     |          |
| St Paul en foret | eIP   | 33.7     |     |          |
| Lorgues          | eIP   | 34.9     |     |          |

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Nordlands Fylke (Norvège)

|             |     |          |
|-------------|-----|----------|
| Kiruna      | eSg | 17 35 06 |
| Skalstugan  | iSg | 10.2     |
| Uméa        | iSg | 32.4     |
| Lillehammer | eP  | 38 31    |

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Réplique : H = 17h 55.4<sup>mn</sup> (ING) M = 3.31 (Messina ING)

|                  |    |          |   |          |
|------------------|----|----------|---|----------|
| Messina          | e  | 17 56 18 | e | 17 56 29 |
| Messina ING      | e  | (20)     | e | 57(04)   |
| La Mourre        | eP | 57 31.9  |   |          |
| St Paul en foret | eP | 34.3     |   |          |
| Lorgues          | eP | 35.9     |   |          |

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Réplique : H = 18h 15<sup>mn</sup> (30) s M = 3.51 (Messina ING)

|             |   |          |   |            |
|-------------|---|----------|---|------------|
| Messina     | e | 18 16 11 | i | 18 16 41.7 |
| Messina ING | e | (16)     | e | 58         |

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|                  |    |            |   |            |
|------------------|----|------------|---|------------|
| Reggio Calabria  | e  | 18 16 23.0 | e | 18 16 48.7 |
| La Mourre        | eP | 17 21.1    |   |            |
| Lorgues          | eP | 24.1       |   |            |
| Isola            | i  | 27         |   |            |
| St Paul en Foret | eP | 29.8       |   |            |

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Réplique : H = 18<sup>h</sup>31.6<sup>mn</sup> (ING) M = 3.25 Messina (ING)

|                  |     |          |   |          |
|------------------|-----|----------|---|----------|
| Messina          | e   | 18 32 21 | e | 18 32 26 |
| Messina (ING)    | e   | (25)     | e | 33 04    |
| La Mourre        | eIP | 33.4     |   |          |
| St Paul en Foret | eIP | 34.8     |   |          |
| Lorgues          | eIP | 36.1     |   |          |
| Isola            | iP  | 33 40.5  |   |          |

XXXVII. 16 Janvier  
Sicile

Réplique H = 18<sup>h</sup>41<sup>mn</sup>(45)<sup>s</sup> (ING)

M = 3.32 (Messina (ING))

|                  |     |            |   |          |
|------------------|-----|------------|---|----------|
| Messina (ING)    | e   | 18 42 (25) |   |          |
| Messina          | e   | 25.4       | i | 18 42 28 |
| La Mourre        | eIP | 43 33.4    |   |          |
| St Paul en Foret | eIP | 34.8       |   |          |
| Lorgues          | eIP | 36.2       |   |          |
| Isola            | i   | 40.2       |   |          |

XXXVIII. 16 Janvier  
Sicile

Réplique : H = 19<sup>h</sup>.02<sup>mn</sup>(30)<sup>s</sup>.(ING); M. = 3.61(Roma)

|                   |     |          |     |            |
|-------------------|-----|----------|-----|------------|
| Messina           | ePn | 19 03 13 | iSn | 19 03 41.2 |
| Messina (ING)     | ePn | (15)     | eSn | 52         |
| Reggio Calabria   | e   | 18.6     | e   | 22.9       |
| Roma              | eSn | 04 18.4  | e   | 04 42      |
| La Mourre         | iP  | 25.6     |     |            |
| St. Paul en Foret | iP  | 27.1     |     |            |
| Lorgues           | iP  | 28.3     |     |            |
| Isola             | i   | 32.9     |     |            |
| Garchy            | e   | 05 30.8  |     |            |

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Sicile

Réplique : H = 20<sup>h</sup>.32.3<sup>mn</sup>(ING); M. = 3.61(Roma)

|                 |     |          |     |          |
|-----------------|-----|----------|-----|----------|
| Messina         | iPn | 20 32 54 | iSn | 20 33 25 |
| Messina (ING)   | ePn | 33(00)   | eSn | 25       |
| Reggio Calabria | e   | 06.5     | e   | 24.5     |

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|                   |     |       |      |   |          |
|-------------------|-----|-------|------|---|----------|
| Roma              | eSn | 20 34 | 08.3 | e | 20 34 46 |
| La Mourre         | eP  |       | 11.6 |   |          |
| St. Paul en Foret | eP  |       | 13.0 |   |          |
| Lorgues           | eP  |       | 14.4 |   |          |
| Isola             | e   |       | 18.5 |   |          |
| Tamarasset        | ePP | 36 18 |      |   |          |

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Nouvelles Hébrides (Ile Tanna)

19° 3/4 S ; 170° E ; H = 20h.44<sup>mn</sup>47<sup>s.</sup>; M. = 3.5(Nouméa)

|        |    |       |                   |    |          |
|--------|----|-------|-------------------|----|----------|
| Koumac | iP | 20 45 | 18.7 <sup>C</sup> |    |          |
| Nouméa | iP |       | 36.0              | 1S | 20 46 03 |

inscrit à Ouanaham

XLI.- 16 Janvier

Sicile.

Réplique : H = 21h.44.1<sup>mn</sup>(ING); M. = 3.05(Messina ING)

|           |    |          |         |          |
|-----------|----|----------|---------|----------|
| Messina   | e  | 21 44 49 | e       | 21 45 24 |
| La Mourre | eP |          | 45 57.4 |          |
| Lorgues   | eP |          | 46 00.4 |          |

I.- 17 Janvier

Plateau Nyika (Malawi)

10°7 S ; 33°8 E ; H = 00h.35<sup>mn</sup>41<sup>s.</sup>(Bilawayo)  
M. = 3.6(Bilawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Broken Hill | ePn | 00 37 12 | eSg | 00 38 58 |
| Karoi       | ePn |          | eSg | 39 28    |
| Bilawayo    | eP  | 38 13    | eS  | 40 05    |

II.- 17 Janvier

Région de la Nouvelle Bretagne.

H = 02h.00<sup>mn</sup>40<sup>s.</sup>; M. = 4.9(Rabaul)

|                |    |                         |                   |            |
|----------------|----|-------------------------|-------------------|------------|
| Rabaul         | iP | 02 01 11.7 <sup>D</sup> | 1S                | 02 01 35.5 |
| Rabalanakata   | iP |                         | 12.5 <sup>D</sup> |            |
| Wanliss Street | iP |                         | 12.6 <sup>D</sup> |            |
| Keravat        | iP |                         | 13                | 1S 37      |



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Iles Loyauté

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20°5 S ; 168°8 E ; H = 02h.17mm.40s. ; M. = 3.4(Nouméa)

|          |     |                           |    |            |
|----------|-----|---------------------------|----|------------|
| Guanaham | iP  | 02 18 05.6 <sup>(D)</sup> | iS | 02 18 25.5 |
| Nouméa   | iP  | 26.1 <sup>C</sup>         | iS | 19 04      |
| Koumac   | eiP | 44.9                      |    |            |

IV.- 17 Janvier

Sicile.

H = 02h.36mm(53)s.(ING);

M. = 3.61(Roma)

|                   |     |          |       |            |
|-------------------|-----|----------|-------|------------|
| Messina           | ePn | 02 37 17 | iSn   | 02 37 42.9 |
| Messina ING       | ePn | (20)     | e     | 38 04.5    |
| Roma              | eSg | 38 25    | e(Sn) | 32.2       |
| La Mourre         | iP  | 29.1     |       |            |
| St. Paul en Forêt | iP  | 30.5     |       |            |
| Lorgues           | eP  | 31.8     |       |            |
| Isola             | iP  | 36.1     |       |            |
| Lanslevillard     | eP  | 52       | ei    | 57.1       |

V.- 17 Janvier

Province de Kansu (Chine)

33°7 N ; 103°3 E ; h = 33km ; H = 03h.00mm.10s.(CGS)

M. = 5.2(Bangui); 5.0(Kajaani); 4.9(College); 4.7(CGS); 4.4(Uinta Basin);  
4.3(Blue M.)

|               |    |                    |   |                      |
|---------------|----|--------------------|---|----------------------|
| Dehra Dun     | iP | 03 03 14.1         |   |                      |
| Shillong      | eP | 53.7               |   | 18 10 16.3           |
| New Dehli     | eP | 05 19              |   | 2645 23.8            |
| Quetta        | eP | 06 25 <sup>C</sup> |   | 3445 31.0            |
| Chiraz        | P  | 08 03              |   | 4690 42.2            |
| Kajaani       | iP | 09 02.6            | 1 | 03 09 18.6 5535 49.8 |
| Sodankylä     | eP | 04                 |   |                      |
| Oulu          | iP | 07.8               |   |                      |
| Nurmijaerwi   | eP | 16                 |   | 5765 51.9            |
| Kiruna        | iP | 21.1 <sup>C</sup>  |   |                      |
| Umeå          | iP | 27.3 <sup>C</sup>  |   |                      |
| Uppsala       | iP | 44.3               |   | 6155 55.4            |
| Skalstugan    | iP | 52.2               |   |                      |
| Uddenholm     | iP | 53.2               |   |                      |
| Karlskrona    | iP | 10 00.2            |   |                      |
| Lillehammer   | iP | 03.4               |   | 6455 58.1            |
| College       | eP | 34                 |   | 6990 62.9            |
| Gilmore Creek | eP | 34.5               |   | 7000 63.0            |
| Palmer        | eP | 38                 |   | 7145 64.3            |
| Warramunga    | eP | 51                 |   | 7245 65.2            |
| Resolute      | eP | 55                 |   | 7355 66.2            |
| Lanslevillard | eP | 11 05              | e | 11 20                |

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|              |    |                   |     |            |       |      |
|--------------|----|-------------------|-----|------------|-------|------|
| Edmonton     | eP | 03 12 33          |     |            | 9235  | 83.1 |
| Bangui       | eP | 35.1 <sup>D</sup> | 1PP | 03 15 57.6 | 9245  | 83.2 |
| Nordman      | eP | 53                |     |            | 9555  | 86.0 |
| Newport      | eP | 54                |     |            | 9580  | 86.2 |
| Hungry Horse | eP | 59.7              |     |            | 9690  | 87.2 |
| Blue M.      | eP | 13 05.4           |     |            | 9900  | 89.1 |
| Eureka       | eP | 32.5              |     |            | 10465 | 94.2 |
| Uinta Basin  | eP | 40.2              |     |            | 10645 | 95.8 |

VI.- 17 Janvier

Sicile

Réplique H = 03<sup>h</sup>.46<sup>mn</sup>(14)S.(ING); M. = 3.60(Roma)

|             |     |          |      |            |  |  |
|-------------|-----|----------|------|------------|--|--|
| Messina     | iPn | 03 46 54 | iSn  | 03 47 21.7 |  |  |
| Messina ING | e   | 47(06)   | e    | 29         |  |  |
| Roma        | ePg | 32       | e(S) | 48 32      |  |  |
| La Mourre   | iP  | 48 06.3  |      |            |  |  |
| St. Saulge  | iP  | 07.7     |      |            |  |  |
| Lorques     | iP  | 09       |      |            |  |  |
| Isola       | iP  | 13.5     |      |            |  |  |
| Tamanrasset | eP  | 50 09    |      |            |  |  |

VII.- 17 Janvier

Au Sud-Ouest de la Préfecture de Wakayama (Japon)

35° 47' N ; 135° 27' E; H = 04<sup>h</sup>.00<sup>mn</sup>59<sup>s</sup>.; M. = 3.6(JMA)

|              |    |          |    |            |     |     |
|--------------|----|----------|----|------------|-----|-----|
| Shionomisaki | eP | 04 01 10 | iS | 04 01 17.8 | 47  | 0.4 |
| Wakayama     | iP | 11.3     | iS | 19.2       | 56  | 0.5 |
| Nara         | eP | 19.3     | iS | 33.6       | 106 | 1.0 |
| Abuyama      | P  | 19.8     | iS | 34.1       |     |     |
| Matsushiro   | P  | 02 06    | S  | 02 54      | 396 | 3.6 |

Inscrit à Tokushima.

VIII.- 17 Janvier

Utah (USA)

39° 3' N ; 112° 2' W; h = 33<sup>km</sup> ; H = 04<sup>h</sup>.27<sup>mn</sup>16<sup>s</sup>.(CGS)

M. = 2.8(CGS - Tonto Forest)

|               |     |            |     |            |     |     |
|---------------|-----|------------|-----|------------|-----|-----|
| Dugway        | eP  | 04 27 32.2 | eL  | 04 27 47.2 | 110 | 1.0 |
| Uinta Basin   | ePg | 52.1       | eLg | 28 19.6    | 235 | 2.2 |
| Glen Canyon   | eP  | 53.5       | iLg | 22.5       | 265 | 2.4 |
| Flaming Gorge | ePn | 58.4       | iLg | 32.6       | 300 | 2.7 |
| Eureka        | eP  | 28 03      | iLg | 48         | 320 | 2.9 |
| Tonto Forest  | eP  | 41.2       | eLg | 29 45      | 565 | 5.1 |
| Albuquerque   | eP  | 29 08      | e   | 30 28      | 700 | 6.3 |

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Au large de la Préfecture de Ibaraki (Japon)

$36^{\circ}23' N$  ;  $141^{\circ}37' E$  ;  $H = 06^h.49^{mm}39.5^s$  ;  $M_s = 3.9$ (JMA)

|            |    |          |    |            |     |     |
|------------|----|----------|----|------------|-----|-----|
| Choshi     | eP | 06 50 00 | eS | 06 50 13.9 | 101 | 0.9 |
| Mito       | eP | 00.4     | eS | 16         | 103 | 0.9 |
| Kakioka    | eP | 03       | S  | 17.4       | 129 | 1.2 |
| Fukushima  | eP | 11       | eS | 34.8       | 183 | 1.6 |
| Matsushiro | iP | 27       | S  | 51 12      | 306 | 2.8 |

X.- 17 Janvier

Province de Jujuy (Argentine)

$23^{\circ}3' S$  ;  $66^{\circ}5' W$  ;  $h = 250^{km}$  ;  $H = 06^h.54^{mm}57^s$  .(CGS)

$M_s = 4.5$ (Cumberland Pl.) ;  $4.2$ (Albuquerque) ;  $4.1$ (Wichita M.) ;  $4.0$ (CGS) ;  
 $3.9$ (Blue M. - Penas) ;  $3.7$ (Tonto Forest) ;  $3.1$ (Uinta Basin)

|                |    |                         |    |            |      |      |
|----------------|----|-------------------------|----|------------|------|------|
| Antofagasta    | iP | 06 55 38.2 <sup>C</sup> | iS | 06 56 14.1 |      |      |
| La Paz         | P  | 56 37.6                 | S  | 58 02      | 765  | 6.9  |
| Penas          | P  | 41.4                    | S  | 07.5       | 800  | 7.2  |
| Cumberland Pl. | eP | 07 04 48.5              |    |            | 6810 | 61.3 |
| Wichita M.     | eP | 05 13.2                 |    |            | 7245 | 65.2 |
| Albuquerque    | eP | 39.2                    |    |            | 7690 | 69.2 |
| Tonto Forest   | eP | 52                      |    |            | 7920 | 71.3 |
| Uinta Basin    | eP | 06 11.5                 |    |            | 8320 | 74.9 |
| Eureka         | eP | 28.3                    |    |            | 8635 | 77.7 |
| Blue M.        | eP | 51.3                    |    |            | 9120 | 82.1 |
| Bilawayo       | iP | 07 14                   |    |            | 9635 | 86.7 |
| Broken Hill    | eP | 25                      |    |            | 9865 | 88.8 |

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Nouvelles Hébrides

$16^{\circ}0' S$  ;  $167^{\circ}4' E$  ;  $h = 121^{km}$  ;  $H = 06^h.21^{mm}42^s$  .(CGS)  
 $16^{\circ}3' S$  ;  $167^{\circ}2' E$  ;  $H = 06^h.21^{mm}46^s$  .(Nouméa)

$M_s = 4.1$ (Nouméa)

|            |    |                         |      |          |     |     |
|------------|----|-------------------------|------|----------|-----|-----|
| Luganville | iP | 08 22 00.2 <sup>D</sup> | iS   | 08 22 14 | 65  | 0.6 |
| Port Vila  | iP | 14 <sup>D</sup>         | iS   | 36       | 210 | 1.9 |
| Ouanaham   | eP | 53.3                    | i(S) | 23 39.5  | 520 | 4.7 |
| Koumac     | iP | 23 01.3 <sup>C</sup>    | iS   | 59       | 600 | 5.4 |
| Nouméa     | iP | 13.2 <sup>C</sup>       | iS   | 24 20    | 700 | 6.3 |

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Région Est de la Nouvelle Guinée

10°2 S ; 150°2 E ; h = 36km ; H = 09h-03<sup>mm</sup>40-7S- (CGS)

M. = 5-8(Rabaul) ; 5-4(College) ; 5-3(CGS) ; 4-8(Blue M.)

|                 |       |                      |    |          |  |       |        |
|-----------------|-------|----------------------|----|----------|--|-------|--------|
| Esa'Ala         | 1P    | 09 03 49             |    |          |  |       |        |
| Port Moresby    | eP    | 04 28                |    |          |  | 345   | 3° 1   |
| Rabaul          | eP    | 05 07 <sup>D</sup>   | eS | 09 06 17 |  | 700   | 6° 3   |
| Keravat         | 1P    | 11                   | 1S | 14       |  | 680   | 6° 1   |
| Honiara         | eP    | 06 02-9              | eS | 08 02    |  | 1080  | 9° 7   |
| Charters Towers | 1P    | 11                   | eS | 18       |  | 1165  | 10° 5  |
| Brisbane        | eP    | 07 40-5              | 1S | 10 51    |  | 1920  | 17° 3  |
| Luganville      | eP    | 41-1                 |    |          |  | 1935  | 17° 4  |
| Koumac          | 1P    | 44-7 <sup>C</sup>    |    |          |  | 1900  | 17° 1  |
| Warramunga      | eP    | 51                   |    |          |  | 2010  | 18° 1  |
| Port Vila       | 1P    | 08 02-9 <sup>C</sup> |    |          |  | 2120  | 19° 1  |
| Ouanaham        | 1P    | 07-2 <sup>C</sup>    |    |          |  | 2165  | 19° 5  |
| Nouméa          | 1P    | 09-9 <sup>C</sup>    |    |          |  | 2190  | 19° 7  |
| Canberra        | eP    | 09 05                | eS | 13 44    |  | 2780  | 25° 0  |
| Toolangi        | eP    | 24                   | e  | 20 12    |  | 3065  | 27° 6  |
| Adélaïde        | eP    | 38                   |    |          |  |       |        |
| Mundaring       | 1P    | 11 07-3 <sup>D</sup> |    |          |  |       |        |
| South Pole      | eP    | 15 47-8              |    |          |  | 8880  | 79° 9  |
| Byrd            | eP    | 49-7                 |    |          |  | 8900  | 80° 1  |
| College         | eP    | 16 25                |    |          |  | 9755  | 87° 8  |
| Gilpore Creek   | eP    | 26-5                 |    |          |  | 9780  | 88° 0  |
| Quetta          | eP    | 35-6                 |    |          |  | 9920  | 89° 3  |
| Oroville        | eP    | 17 02-4              |    |          |  | 10585 | 95° 1  |
| Eureka          | eP    | 21-8                 |    |          |  | 11045 | 99° 4  |
| Blue M.         | eP    | 25-4                 |    |          |  | 10990 | 98° 9  |
| Lasa Center     | (PKP) | 22 03-9              |    |          |  | 11855 | 106° 7 |
| Penas           | PKP   | 57                   |    |          |  | 14845 | 133° 6 |
| La Paz          | PKP   | 58-3                 |    |          |  | 14865 | 133° 8 |
| Tamanrasset     | PKP   | 23 13                |    |          |  | 16000 | 144° 0 |
| Ifrane          | PKP   | 22-5                 |    |          |  | 16390 | 147° 5 |

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A l'Ouest de l Ile Macquarie

56° 4 S ; 147° 0 E ; h = 33km ; H = 09h-49<sup>mm</sup>50-7S- (CGS)

|                 |    |          |    |          |  |      |       |
|-----------------|----|----------|----|----------|--|------|-------|
| Tasmanian Univ. | eP | 09 53 02 |    |          |  | 1500 | 13° 5 |
| Moorlands       | eP | 06       |    |          |  | 1555 | 14° 0 |
| Tarraleah       | eP | 13       |    |          |  | 1580 | 14° 2 |
| Toolangi        | 1P | 54 09-5  | eS | 09 57 45 |  | 2100 | 18° 9 |
| Canberra        | eP | 37       | 1S | 58 35    |  | 2355 | 21° 2 |
| Scott Base      | P  | 48       |    |          |  | 2510 | 22° 6 |
| Adélaïde        | eP | 49       |    |          |  |      |       |
| Brisbane        | 1P | 55 53    | 1S | 10 00 49 |  | 3255 | 29° 3 |

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|                 |                   |       |                    |    |          |       |        |
|-----------------|-------------------|-------|--------------------|----|----------|-------|--------|
| South Pole      | eP                | 09 56 | 29° 1              |    |          | 3755  | 33° 7  |
| Meekhatharra    | 1P                |       | 50° 6 <sup>C</sup> |    |          |       |        |
| Charters Towers | eP                |       | 52                 | es | 10 02 36 | 4035  | 36° 3  |
| Byrd            | eP                |       | 52° 2              |    |          | 3955  | 35° 6  |
| Bilawayo        | eP                | 10 02 | 40                 |    |          | 9765  | 87° 9  |
| Karoi           | 1P                |       | 48                 |    |          | 10035 | 90° 3  |
| Broken Hill     | eP                | 03 03 |                    |    |          | 10320 | 92° 9  |
| La Paz          | eP                |       | 39                 |    |          |       |        |
| Afiamalu        | es                |       | 06° 5-             |    |          |       |        |
| Tonto Forest    | PKP               | 08 47 | ° 6                |    |          | 13780 | 124° 0 |
| Eureka          | PKP               |       | 50° 5              |    |          | 13935 | 125° 4 |
| Dugway          | PKP               |       | 52° 5              |    |          | 14180 | 127° 6 |
| Blue M.         | PKP               |       | 55° 3              |    |          | 14290 | 128° 6 |
| Uinta Basin     | PKP               |       | 55° 8              |    |          | 14380 | 129° 4 |
| Wichita M.      | PKP               | 09 01 | ° 7                |    |          | 14590 | 131° 3 |
| Mould Bay       | PKP               |       | 21                 |    |          | 16080 | 144° 7 |
| Resolute        | PKP               |       | 37                 |    |          | 16735 | 150° 6 |
| Ifrane          | PKP               |       | 39                 |    |          | 16880 | 150° 1 |
| Nurmijaerwi     | PKP               |       | 41° 3              |    |          | 16710 | 150° 4 |
| Uméa            | 1PKP              |       | 41 <sup>n</sup> 4  |    |          |       |        |
| Sodankylä       | PKP               |       | 42                 |    |          | 16790 | 151° 1 |
| Oulu            | 1PKP              |       | 42° 4              |    |          |       |        |
| Kajaani         | PKP               |       | 42° 7              |    |          | 16665 | 150° 0 |
| Kevo            | PKP               |       | 42° 8              |    |          | 16600 | 151° 2 |
| Collm           | PKP               |       | 46                 |    |          | 16980 | 152° 8 |
| Erlangen        | ePKP <sub>2</sub> |       | 55 <sup>D</sup>    |    |          |       |        |
| Moxa            | PKP <sub>2</sub>  | 10 04 |                    |    |          | 17035 | 153° 3 |

Inscrit à Istanbul UTI - Toledo - M'Bour.

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Iles Santa Cruz.

Vers 11° 8 S ; 166° 2 E ; h = 80 km ; H = 10<sup>h</sup>.21<sup>mn</sup>.27<sup>s</sup>. (CGS)  
 11° 3/4 S ; 166° 0 E ; H = 10<sup>h</sup>.21<sup>mn</sup>.25<sup>s</sup>. (Nouméa)

M. = 4.4 (Uinta Basin) ; 4.1 (CGS) ; 3.8 (Blue M.).

|              |       |       |                    |      |             |       |        |
|--------------|-------|-------|--------------------|------|-------------|-------|--------|
| Luganville   | 1P    | 10 22 | 25° 5 <sup>C</sup> | 1S   | 10 23 06° 5 | 420   | 3° 8   |
| Port Vila    | eP    | 23 02 | ° 6                | 1(S) | 25 15       | 700   | 6° 3   |
| Honiara      | eP    |       | 02° 6              | es   | 24 15° 5    | 720   | 6° 5   |
| Koumac       | 1P    |       | 35° 1 <sup>C</sup> | 1S   | 25 13° 5    | 990   | 8° 9   |
| Nouméa       | 1     | 24 07 | ° 4 <sup>C</sup>   | 1S   | 28 09° 5    | 1165  | 10° 5  |
| Toolangi     | eP    | 27 46 |                    |      |             | 3520  | 31° 7  |
| Byrd         | eP    | 33 05 | ° 7                |      |             | 8420  | 75° 8  |
| South Pole   | eP    |       | 19° 3              |      |             | 8700  | 78° 3  |
| Blue M.      | eP    | 34 11 | ° 9                |      |             | 9880  | 88° 9  |
| Eureka       | eP    |       | 12° 5              |      |             | 9800  | 88° 2  |
| Uinta Basin  | eP    |       | 34° 7              |      |             | 10355 | 93° 2  |
| Tonto Forest | e(DP) |       | 47° 1              |      |             | 10055 | 90° 5  |
| Bangui       | PKP   | 41 03 |                    |      |             | 16345 | 147° 1 |

Inscrit à Guanaham - Nat. Univ. Mexico.

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Région de la Nouvelle Bretagne

H = 11<sup>h</sup>06<sup>mn</sup>58<sup>s</sup>. M = 4.8 (Rabaul)

|                |    |       |       |    |          |
|----------------|----|-------|-------|----|----------|
| Rabalanakaia   | iP | 11 07 | 30.4D |    |          |
| Sulphur Creek  | iP |       | 30.6D |    |          |
| Wanliss Street | iP |       | 31    |    |          |
| Kerava t       | iP |       | 31D   | 1S | 11 07 56 |
| Rabaul         | iP |       | 31.3  | 1S | 56       |

XVI. 17 janvier

Sicile

Réplique M = 3.60 (Roma). H = 12<sup>h</sup>06<sup>mn</sup>(48)<sup>s</sup> (ING)

|                 |         |          |     |            |
|-----------------|---------|----------|-----|------------|
| Messina         | ePn     | 12 07 30 | 1Sn | 12 07 55.9 |
| Messina         | ING ePn | (31)     | 1Sn | 56         |
| Reggio Calabria | e       | 39.3     | e   | 08 02.6    |
| L'Aquila        | e       | 08 12    | e   | 0 900      |
| Roma            | e       | 12       |     |            |
| La Mourre       | eIP     | 43.5     |     |            |
| Lorgues         | eIP     | 46.6     |     |            |
| Ljubljana       | eP      | 58       |     |            |
| Tamanrasset     | e       | 10 48    |     |            |
| Trieste         | e       | 11 06    |     |            |

XVII. 17 janvier

Maroc

Vers 34°0N, 2°0W h = 33km H = 12<sup>h</sup>37<sup>mn</sup>(28)<sup>s</sup> (Rabat)

|          |      |            |    |          |     |     |
|----------|------|------------|----|----------|-----|-----|
| Ifrane   | eIPn | 12 38 06.5 | 8S | 12 38 46 | 285 | 2.6 |
| Averroes | e    | 39         | 8n | 39 41    | 500 | 4.5 |
| Rabat    | e    | 39 24      | M  | 28       |     |     |

XVIII. 17 janvier

Sicile

Réplique ; M = 3.23 (Messina) ; H = 13<sup>h</sup>13<sup>mn</sup>(02)<sup>s</sup> (ING)

|                  |     |            |     |            |
|------------------|-----|------------|-----|------------|
| Messina          | ePn | 13 13 45.5 | eSn | 13 14 14.3 |
| La Mourre        | eIP | 14 51      |     |            |
| St Paul en Forêt | eIP | 52.6       |     |            |
| Lorgues          | eIP | 54         |     |            |

inscrit à Praha.

XIX. 17 janvier

Données insuffisantes

|             |    |       |       |
|-------------|----|-------|-------|
| Kajaani     | iP | 14 08 | 22.5D |
| Uméa        | iP |       | 28.3  |
| NurmiJaervi | iP |       | 33.9D |
| Uppsala     | iP |       | 40.4  |
| Sodankylä   | eP |       | 41    |
| Uddeholm    | iP |       | 41.3  |

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XX. 17 Janvier  
Iles Loyauté

20° 3S, 168° 6E h = 33km

H = 15h 33mn 08s (CGS)

20° 3S, 168° 9E

H = 15h 33mn 06s (Nouméa)

M = 4.0 (Nouméa)

|            |       |       |       |       |          |     |     |
|------------|-------|-------|-------|-------|----------|-----|-----|
| Ouanaham   | iP    | 15 33 | 31.2D | iS    | 15 33 49 | 155 | 1.4 |
| Port Vila  | iP    |       | 48C   | iS    | 34 24.5  | 290 | 2.6 |
| Nouméa     | iP    |       | 52.8D | iS    | 38       | 320 | 2.9 |
| Koumac     | iP    | 34    | 10.4C | iS    | 35 01    | 455 | 4.1 |
| Luganville | iP    |       | 22.9C |       |          | 555 | 5.0 |
| Bangui     | iPKP1 | 52    | 50.3  | iPKP1 | 53 00.8  |     |     |

XXI. 17 Janvier  
Région du lac Sagara (Tanzanie)

5° 2S, 31° 1E

H = 16h 29mn 17s (Bulawayo)

M = 3.4 (Bulawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Karoi       | eP  | 16 32 04 | eSn | 16 34 06 |
| Nairobi     | iP  | 33 03    |     |          |
| Broken Hill | eSg | 34 12    |     |          |

inscrit à Bulawayo.

XXII. 17 Janvier  
Sicile

Réplique : M = 3.33 (Messina),

H = 17h 10mn 32s (ING)

|                  |     |           |     |             |
|------------------|-----|-----------|-----|-------------|
| Messina ING      | e   | 17 11(00) | e   | 17 11(49.4) |
| Messina          | ePn | 14        | iSn | 42.7        |
| Reggio Calabria  | e   | (49.4)    |     |             |
| La Mourre        | eP  | 12 21.8   |     |             |
| St Paul en Forêt | eP  | 23.2      |     |             |
| Lorgues          | eP  | 24.6      |     |             |

XXIII. 17 Janvier  
Iles Loyauté

Vers 22° 0S, 170° 0E

H = 17h 48mn 27s (Nouméa)

M = 3.4 (Nouméa)

|           |    |             |      |            |
|-----------|----|-------------|------|------------|
| Ouanaham  | iP | 17 49 07.4D | iS   | 17 49 37.5 |
| Nouméa    | iP | 17.4D       | iS   | 56.5       |
| Port Vila | iP | 29.3D       | i(S) | 50 18.5    |
| Koumac    | iP | 51.9D       |      |            |

XXIV. 17 Janvier  
Pays de la cote Est de Hondo (Japon)

35° 9N, 140° 1E h = 65km

H = 17h 56mn 18.7 (CGS)

35° 49' N, 140° 19' E

H = 17h 56mn 16.4s (JMA)

M = 4.6 (Uinta Basin), 4.5 (Eureka), 4.4 (CGS, Tonto Forest),  
4.2 (Blue M. Digway).

|            |    |            |    |     |
|------------|----|------------|----|-----|
| Mt Tsukuba | iP | 17 56 29.3 | 35 | 0.3 |
|------------|----|------------|----|-----|

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|               |      |       |      |       |       |      |      |      |
|---------------|------|-------|------|-------|-------|------|------|------|
| Tokyo         | P    | 17 56 | 31.8 | S     | 17 56 | 42.2 |      |      |
| Kiyosumi      | 1P   |       | 32.7 |       |       |      | 80   | 0.7  |
| Yokohama      | 1P   |       | 33.1 | 1S    |       | 44.5 |      |      |
| Dodaira       | 1P   |       | 35.4 |       |       |      | 90   | 0.8  |
| Maebashi      | P    |       | 33.6 | 1S    |       | 53.9 |      |      |
| Kofu          | 1P   |       | 42.7 | 1S    | 57    | 00.4 |      |      |
| Matsushiro    | 1P   |       | 48.3 | S     |       | 11   |      |      |
| Sendai        | eP   |       | 58   | e     |       | 28.2 |      |      |
| Gifu          | eP   | 57    | 04.1 |       |       |      |      |      |
| Mizusawa      | eP   |       | 13.3 | eS    |       | 38.8 |      |      |
| Abuyama       | eP   |       | 17.8 |       |       |      |      |      |
| Oishiyama     | eP   |       | 23.3 |       |       |      | 480  | 4.3  |
| Wakaura W.    | eP   |       | 24.9 |       |       |      | 490  | 4.4  |
| Shiraki       | P    |       | 50.9 |       |       |      | 700  | 6.3  |
| College       | 1P   | 05    | 13.1 |       |       |      | 5620 | 50.6 |
| Gilmore Creek | eP   |       | 14   |       |       |      | 5635 | 50.7 |
| Mould Bay     | eP   | 06    | 05   |       |       |      | 6435 | 57.9 |
| Resclute      | eP   |       | 45   |       |       |      | 7110 | 64.0 |
| Kajaani       | eP   | 07    | 08   |       |       |      | 7465 | 67.2 |
| Nurmijaervi   | eP   |       | 28   |       |       |      | 7800 | 70.5 |
| Blue M.       | eP   |       | 45.7 |       |       |      | 8165 | 73.5 |
| Eureka        | 1P   | 08    | 08.9 |       |       |      | 8600 | 77.4 |
| Dugway        | eP   |       | 17.1 |       |       |      | 8765 | 78.9 |
| Uinta Basin   | eP   |       | 27.4 |       |       |      | 8865 | 80.7 |
| Tonto Forest  | eP   |       | 42.3 | e(DP) | 18 08 | 50.5 | 9280 | 83.5 |
| La Paz        | ePKP | 18    | 00   |       |       |      |      |      |
| Penas         | ePKP |       | 01.0 |       |       |      |      |      |

XXV. 17 janvier  
Sicile

Réplique : M = 3.54 (Messina), H = 18<sup>h</sup>27.6<sup>s</sup> (ING)

M = 3.54 (Messina)

|                  |       |       |      |     |       |      |  |  |
|------------------|-------|-------|------|-----|-------|------|--|--|
| Messina ING      | e(Pn) | 18 28 | 14   | eSg | 18 28 | 51   |  |  |
| Messina          | 1Pn   |       | 17.5 | 1Sn |       | 43.2 |  |  |
| La Mourre        | e1P   | 29    | 29.6 |     |       |      |  |  |
| St Paul en Foret | e1P   |       | 31.2 |     |       |      |  |  |

XXVI. 17 janvier

Au nord de la Préfecture de Chiba (Japan)

35° 51' N, 140° 17' E h = 70km H = 19<sup>h</sup>45<sup>mn</sup>54.5<sup>s</sup> (JMA)

|            |    |       |      |    |       |      |     |     |
|------------|----|-------|------|----|-------|------|-----|-----|
| Kakioka    | 1P | 19 46 | 06.4 | 1S | 19 46 | 14.7 | 43  | 0.4 |
| Choshi     | eP |       | 07.9 | eS |       | 17.8 | 52  | 0.5 |
| Tokyo      | eP |       | 08.6 | eS |       | 19.2 | 51  | 0.5 |
| Mito       | 1P |       | 08.7 | 1S |       | 18.7 | 61  | 0.6 |
| Yokohama   | eP |       | 10.9 | 1S |       | 22   | 73  | 0.7 |
| Ajiro      | 1P |       | 15.8 | 1S |       | 31   | 140 | 1.3 |
| Kofu       | eP |       | 21.1 | eS | 17    | 37.2 | 157 | 1.4 |
| Matsushiro | 1P |       | 25.5 |    |       |      | 202 | 1.8 |
| Abuyama    | 1P |       | 55.2 |    |       |      |     |     |



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XXVII. 17 janvier  
Données insuffisantes

|            |    |    |    |         |
|------------|----|----|----|---------|
| Sodankylae | eP | 19 | 53 | 15      |
| Kajaani    | iP |    |    | 19.1    |
| Oulu       | eP |    |    | 21      |
| Umeå       | iP |    |    | 33      |
| Uppsala    | iP |    |    | 55.2    |
| Liddeholm  | iP |    |    | 54 04.1 |

XXVIII. 17 janvier  
Sicile

Réplique : M = 3.37 (Messina)

H = 20h02<sup>mn</sup>(50)<sup>s</sup> (ING)

|                 |     |   |    |        |      |    |    |    |
|-----------------|-----|---|----|--------|------|----|----|----|
| Messina         | ING | e | 20 | 03(00) | e    | 20 | 04 | 00 |
| Messina         |     | e |    | 30     | iSg  |    |    | 01 |
| Reggio Calabria |     | e |    | 04     | 00.2 |    |    |    |

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H = 20h40<sup>mn</sup>(05)<sup>s</sup> (ING)

M = 3.20 (Messina)

|         |     |    |    |    |     |    |    |    |
|---------|-----|----|----|----|-----|----|----|----|
| Messina | ePn | 20 | 40 | 45 | iSn | 20 | 41 | 11 |
|---------|-----|----|----|----|-----|----|----|----|

XXIX. 17 janvier  
Mer Egée

33°1N, 24°3E

H = 21h06<sup>mn</sup>46<sup>s</sup> (Athènes)

M = 3.1 (Athènes)

|           |      |    |    |       |        |    |      |      |     |     |
|-----------|------|----|----|-------|--------|----|------|------|-----|-----|
| Athènes   | eIPg | 21 | 06 | 55.7C | iSg    | 21 | 07   | 02.6 | 55  | 0.5 |
| Paraskevi | ePn  |    | 07 | 19.6  | e, Sg) |    |      | 52.2 | 210 | 1.9 |
| Vamos     | ePn  |    |    | 29.6  | eSg    | 08 | 12.6 |      | 290 | 2.6 |
| Valsamata | ePn  |    |    | 34.3  | eSb    |    | 14.3 |      | 220 | 2.9 |

XXX. 17 janvier  
Mer Egée

37°8N, 24°5E

H = 23h22<sup>mn</sup>05<sup>s</sup> (Athènes)

M = 2.8 (Athènes)

|           |      |    |    |       |     |    |    |      |     |     |
|-----------|------|----|----|-------|-----|----|----|------|-----|-----|
| Athènes   | eIPg | 23 | 22 | 14.6C | iSg | 23 | 22 | 21.9 | 55  | 0.5 |
| Paraskevi | ePn  |    |    | 39.9  |     |    |    |      | 220 | 2.0 |
| Vamos     | ePn  |    |    | 46.6  |     |    |    |      | 270 | 2.4 |
| Valsamata | ePn  |    |    | 56.4  |     |    |    |      | 350 | 3.2 |

I. 18 janvier  
Sud des îles

22°3S, 179°1W h = 47.2 km

Fidji

H = 01h57<sup>mn</sup>32<sup>s</sup> (CGS)

M = 5.2 (Port Moresby), 4.6 (CGS, Palmer), 4.4 (Uinta Basin),  
3.8 (Blue M), 3.5 (Tonto Forest).

|                 |    |    |    |      |  |  |  |  |      |      |
|-----------------|----|----|----|------|--|--|--|--|------|------|
| Raoul Island    | eP | 02 | 00 | 18   |  |  |  |  | -80  | 7.0  |
| Charters Towers | iP |    | 03 | 23.1 |  |  |  |  | 3590 | 32.3 |

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|                 |                   |            |                |             |
|-----------------|-------------------|------------|----------------|-------------|
| Port Moresby    | iP                | 02 03 43.8 | 3870           | 34.8        |
| Warramunga      | eP                | 04 52.0    | 48 10          | 43.3        |
| Eyrd            | eP                | 07 13.3    | 7000           | 63.0        |
| South Pole      | eP                | 43.0       | 7530           | 67.8        |
| Big M.          | eP                | 09 10.2    | 9310           | 83.8        |
| Sparrevohn      | iP                | 18.3       | 9480           | 85.3        |
| Tonto Forest    | eP                | 21.7       | 9510           | 85.6        |
| Palmer          | eP                | 26.0       | 9870           | 87.0        |
| Blue M.         | eP                | 28.7       | 9710           | 87.4        |
| Mt Sheep Creek  | iP                | 29.6       | 9745           | 87.7        |
| Black Rapids    | iP                | 33.2       | 9945           | 89.5        |
| Gilmore Creek   | eP                | 41.2       | 10045          | 90.4        |
| Uinta Basin     | eP                | 42.2       | 9980           | 89.8        |
| La Paz          | eP                | 10 55      |                |             |
| Kiruna          | iPKP              | 15 53.1    |                |             |
| Nurmijaervi     | ePKP              | 54         |                |             |
| Uméa            | iPKP              | 54.5       |                |             |
| Oulu            | ePKP              | 56         |                |             |
| Kajaani         | iPKP              | 57.7       |                |             |
| Uddeholm        | iPKP              | 16 03.0C   |                |             |
| Goteborg        | iPKP              | 12.0       |                |             |
| Niedzica        | eIP               | 23.0C      |                |             |
| Collm           | iPKP              | 29.0C      | 16620          | 149.6       |
| Moxa            | ePKP              | 31.5       | 16720          | 150.5       |
| Pruhonice       | eIPKP             | 31.6       | 16710          | 150.4       |
| Erlangen        | ePKP <sub>1</sub> | 33.0C      |                |             |
| Bangui          | ePKP <sub>1</sub> | 33.4       | ePP 02 20 45.0 | 17245 155.2 |
| Kasp erské Hory | eIPKP             | 34         |                |             |

inscrit à Quetta, Bulawayo, Karoi, Broken Hill.

II. 18 Janvier

Au large de la cote est de l'île de Crete

34°3/4N, 26°1/2E H = 02<sup>h</sup>27<sup>mn</sup>18S (Athènes)

|        |     |            |     |            |     |     |
|--------|-----|------------|-----|------------|-----|-----|
| Rhodes | ePn | 02 27 51.4 | eSn | 02 28 14.6 | 205 | 1.8 |
| Vamos  | ePn | 51.8       | eSn | 16.6       | 210 | 1.3 |

III. 18 Janvier

Iles Ioniennes

37°3/4N, 21°E H = 04<sup>h</sup>42<sup>mn</sup>0S

M = 2.4 (Athènes)

|           |      |             |     |            |     |     |
|-----------|------|-------------|-----|------------|-----|-----|
| Valsamata | eIP  | 04 42 19.4C | iSg | 04 42 27.4 | 600 | 0.5 |
| Athènes   | eIPg | 47.0C       | eSg | 43 15.0    | 240 | 2.2 |
| Vamos     | ePn  | 43 07.9     |     |            | 400 | 3.6 |

IV. 18 Janvier

Nouvelles Hébrides (île Espiritu Santo)

15°6S, 166°6E H = 06<sup>h</sup>24<sup>mn</sup>42S (Nouméa)

|            |    |            |    |          |  |  |
|------------|----|------------|----|----------|--|--|
| Luganville | iP | 06 24 48.1 | iS | 06 24 52 |  |  |
|------------|----|------------|----|----------|--|--|

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|           |     |            |    |          |
|-----------|-----|------------|----|----------|
| Port Vila | eIP | 06 25 22.8 | 1S | 06 25 52 |
| Nouméa    | eIP | 26 19.0    | 1S | 27 35    |

Inscrit à Koumac, Ouanaham.

V. 18 Janvier  
Iles Ioniennes

38°9N, 20°8E H = 06<sup>h</sup>41<sup>mn</sup>17<sup>s</sup>  
M = 3.8 (Athènes)

|           |       |            |     |            |           |
|-----------|-------|------------|-----|------------|-----------|
| Valsamata | eIPg  | 06 41 32.6 |     | 90         | 0.8       |
| Athènes   | eIPn  | 59.0C      | eSn | 06 42 30.6 | 275 2.5   |
| Vamos     | ePn   | 42 26.9    |     |            | 490 4.4   |
| Rhodes    | e(Pn) | 50.6       |     |            | (680) 6.1 |

VI. 18 Janvier  
Données insuffisantes

|              |    |             |    |          |
|--------------|----|-------------|----|----------|
| Port Moresby | iP | 07 10 15.9D | eS | 07 10 50 |
| Esa'Ala      | iP | 16          | iS | 44       |
| Keravat      | eP | 11 18.5D    | iS | 12 33.5  |
| Rabaul       | eP | 21D         | eS | 36.5     |

VII. 18 Janvier  
Région frontière Mexique Guatemala

15°7N, 92°7W h = 111<sup>km</sup> H = 08<sup>h</sup>42<sup>mn</sup>49<sup>s</sup> (CGS)

M = 4.2 (Wichita M), 3.9 (Uinta Basin), 3.3 (CGS, Blue M), 3.7 (Cumberland Pl, Tonto Forest)

|                  |    |            |     |            |           |
|------------------|----|------------|-----|------------|-----------|
| Presa B. Juarez  | iP | 06 43 25.6 |     |            |           |
| Vista Hermosa    | iP | 50.5       | iS  | 03 44 44.5 | 470 4.2   |
| Nat. Uni. Mexico | e  | 45 49      |     |            |           |
| Tacubaya         | e  | 50         |     |            |           |
| Wichita M.       | eP | 47 11.8    | ePP | 47 35.0    | 2190 19.7 |
| Cumberland Pl    | eP | 24.2       |     |            | 2320 20.9 |
| Tonto Forest     | eP | 48 04.8    |     |            | 2780 25.0 |
| Uinta Basin      | eP | 38.1       |     |            | 3180 28.6 |
| Blue M.          | eP | 49 33.3    |     |            | 3980 35.8 |

VIII. 18 Janvier  
A l'ouest de Sumatra

3°8N, 95°2E

H = 10<sup>h</sup>39<sup>mn</sup>17<sup>s</sup> (BCIS)

3°4N, 94°9E

H = 10<sup>h</sup>39<sup>mn</sup>20<sup>s</sup> (URSS)

|           |    |         |   |          |            |
|-----------|----|---------|---|----------|------------|
| Shillong  | eP | 10 4 11 |   |          | 2435 21.9  |
| Bokaro    | eP | 14      | i | 10 48 12 | 2435 21.9  |
| Poona     | eP | 51      |   |          | 2835 25.5  |
| New Delhi | eP | 45 29   |   |          | 3345 30.1  |
| Dehra Dun | iP | 39D     | i | 46 18.5  | 3445 31.0  |
| Warsak    | eP | 46 33.6 |   |          | 4 165 37.5 |
| Quetta    | eP | 35.7D   |   |          | 4165 37.5  |
| Garm      | eP | 47 07   |   |          | 4635 41.7  |
| Talgar    | eP | 17      |   |          | 4710 42.4  |

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|                   |    |          |            |      |      |
|-------------------|----|----------|------------|------|------|
| Frounze           | eP | 10 46 22 |            | 4775 | 43·0 |
| Semipalatinsk     | eP | 48 00·9  |            | 5350 | 48·2 |
| Bodajbo           | eP | 59 C     |            | 6220 | 56·0 |
| Sverdlovsk        | eP | 49 24    |            | 6620 | 59·6 |
| Youjno Sakhalinsk | eP | 28       |            | 6600 | 59·4 |
| Yakoutsk          | iP | 52       |            | 7060 | 63·5 |
| Karoi             | iP | 50 19D   |            | 7545 | 67·9 |
| Broken Hill       | iP | 24D      |            | 7620 | 68·6 |
| Bulawayo          | eP | 27       |            | 7725 | 69·5 |
| Tiksi             | iP | 33D      |            | 7890 | 71·0 |
| Bangui            | eP | 51 11·3  | 10 51 22·0 | 8490 | 76·4 |
| Kajaani           | eP | 12       |            | 8545 | 76·9 |
| Sodankylae        | eP | 21       |            | 8710 | 78·4 |
| Umeå              | iP | 30·4     |            | 8890 | 80·0 |
| Kiruna            | iP | 34·6     |            | 8980 | 80·8 |
| Tamanrasset       | eP | 52 15    |            | 8810 | 88·3 |

IX. 18 janvier  
Région de Solwezi (Zambie)

13° 1S, 28° 8E

H = 11<sup>h</sup>18<sup>mn</sup>40<sup>s</sup>

M = 2·9 (Bulawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Broken Hill | iPn | 11 19 16 | eSg | 11 19 46 |
| Karoi       | ePn | 49       | eSg | 20 58    |
| Bulawayo    | ePn | 20 23    | eSg | 22 24    |

X. 18 janvier  
Maroc (Explosion de 15 tonnes)

32° 3/4N, 6° 3/4W h = 00km

H = 11<sup>h</sup>44<sup>mn</sup>(25S) (Rabat)

|          |    |            |    |            |     |     |
|----------|----|------------|----|------------|-----|-----|
| Averroes | Pg | 11 44 41·5 | Sg | 11 44 51·5 | 85  | 0·8 |
| Rabat Z  | Pb | 50         | Sb | 45 07      | 130 | 1·2 |
| Ifrane   | P  | 55         | Sb | 15·5       | 175 | 1·6 |

XI. 18 janvier  
Iles Santa Cruz

12° 2S, 166° 0E h = 38km

H = 11<sup>h</sup>53<sup>mn</sup>08<sup>s</sup> (CGS)

12° 8S, 165° 7E H = 11<sup>h</sup>53<sup>mn</sup>53<sup>s</sup> (Nouméa)

M = 5·3 (Honiara, CGS), 4·5 (Nouméa)

|                 |     |            |    |          |      |      |
|-----------------|-----|------------|----|----------|------|------|
| Luganville      | iP  | 1154 02·9D | iS | 11 54 39 | 390  | 3·5  |
| Port Vila       | eIP | 36·7       | iS | 55 35·5  | 670  | 6·0  |
| Honiara         | eP  | 42·8       | iS | 55       | 720  | 6·5  |
| Koumac          | iP  | 55 07·5D   | iS | 56 37·5  | 855  | 8·6  |
| Ouanaham        | eIP | 12·8       |    |          | 855  | 8·6  |
| Nouméa          | iP  | 31·1D      | iS | 57 19·0  | 1120 | 10·1 |
| Port Moresby    | eP  | 57 26      |    |          | 2080 | 18·7 |
| Brisbane        | iP  | 36         |    |          | 2180 | 19·6 |
| Charters Towers | iP  | 46         |    |          | 2280 | 20·5 |
| Canberra        | eS  | 12 03 39   | e  | 12 16 16 |      |      |
| Byrd            | eP  | 04 41·2    |    |          | 8380 | 75·4 |

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|            |                   |            |     |            |       |       |
|------------|-------------------|------------|-----|------------|-------|-------|
| South Pole | eP                | 12 05 02.7 |     |            | 8655  | 77.9  |
| Bangué     | ePKP <sub>1</sub> | 12 46.2    | 1PP | 12 16 15.2 | 16320 | 146.9 |

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Région des Iles Fidji.

14°6 S ; 178°4 W ; h = 33 km ; H = 12h.03m37.4s. (CGS)

M. = 5.7 - 6.1(Berkeley); 5.6(Honiara); 5.5(Palmer - Uinta Basin - Albuquerque);  
5.3(Tucson); 5.2(North Pole); 5.1(CGS - Wichita M. - Dugway - Tonto  
Forest); 4.7(Eureka); 4.6(BlueM. - Golden).

|                 |    |            |      |          |      |      |
|-----------------|----|------------|------|----------|------|------|
| AfiamaLu        | eP | 12 05 05   | eS   | 12 06 12 | 720  | 6.5  |
| Port Vila       | iP | 47.6C      |      |          | 1460 | 13.1 |
| Luganville      | iP | 06 59.8(D) |      |          | 1555 | 14.0 |
| Ouanaham        | iP | 07 08.5C   |      |          | 1665 | 15.0 |
| Nouméa          | iP | 30.1C      |      |          | 1810 | 16.3 |
| Koumac          | iP | 42.0C      |      |          | 1950 | 17.5 |
| Rarotonga       | eP | 56         |      |          | 2100 | 18.9 |
| Honiara         | eP | 08 29.2    | eS   | 12 36    | 2420 | 21.8 |
| Karapiro        | eP | 50         |      |          | 2650 | 23.8 |
| Brisbane        | iP | 09 42      |      |          | 3300 | 29.7 |
| Monowai         | eP | 10 16      |      |          | 3695 | 33.2 |
| Port Moresby    | eP | 21.5       | eS   | 15 53    | 3790 | 34.1 |
| Charters Towers | iP | 22.2       | 1(S) | 29       | 3790 | 34.1 |
| Toolangi        | iP | 11 04.0    | eS   | 17 09.0  | 4370 | 39.3 |
| Terre Adélie    | iP | 13 38.0    |      |          | 6530 | 56.8 |
| Davao           | eP | 44.0       | eS   | 22 04.0  | 6620 | 56.6 |
| Meekatharra     | iP | 49.6D      |      |          | 6635 | 59.7 |
| Mt. Tsukuba     | eP | 14 08.4    |      |          | 7110 | 64.0 |
| Dodaira         | eP | 11.9       |      |          | 7155 | 64.4 |
| Matsushiro      | eP | 19         | S    | 23 10    | 7255 | 65.3 |
| Adak            | eP | 23.7       |      |          | 7370 | 66.3 |
| Shiraki         | eP | 31.5       |      |          | 7500 | 67.5 |
| Baguio          | iP | 33.5       | eS   | 39.0     | 7520 | 67.7 |
| Byrd            | eP | 49.8       | e    | 15 26.0  | 7830 | 70.5 |
| Lembang         | P  | 15 07.0    |      |          | 8090 | 72.8 |
| Berkeley        | eP | 11.6C      | (S)  | 25 00    | 8255 | 74.2 |
| Mt. Hamilton    | eP | 12.0C      | e    | 15 27.4  | 8255 | 74.3 |
| San Luis Dam    | eP | 14.9       |      |          | 8270 | 74.4 |
| Priest          | eP | 15.2C      | e    | 28.0     | 8255 | 74.3 |
| Pasadena        | eP | 17         | e(S) | 25.1--   | 8330 | 75.0 |
| Jamestown       | eP | 18.2       | e    | 17 05.2  | 8380 | 75.4 |
| South Pole      | eP | 19.0       |      |          | 8390 | 75.5 |
| Oroville        | eP | 20.4       |      |          | 8400 | 75.6 |
| Mineral         | eP | 22.5C      |      |          | 8435 | 75.9 |
| Big Mountain    | eP | 23.0       |      |          | 8455 | 76.1 |
| Hong Kong       | eP | 24.0       | eS   | 25 16.0  | 8400 | 75.6 |
| Sparrevohn      | eP | 32.0       |      |          | 8620 | 77.6 |
| Boulder City    | eP | 39.6       |      |          | 8700 | 78.3 |
| Palmer          | eP | 40.8       |      |          | 8820 | 78.4 |
| Eureka          | iP | 41.0       |      |          | 8800 | 79.2 |
| Tucson          | iP | 44.5C      | eS   | 56.0     | 8855 | 79.7 |
| Longmire        | iP | 45.4       |      |          | 8815 | 79.4 |

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|                   |                    |            |                    |            |       |        |
|-------------------|--------------------|------------|--------------------|------------|-------|--------|
| Mt. Sheep Creek   | iP                 | 12 15 45.8 |                    |            | 8900  | 80° 1  |
| Tonto Forest      | eP                 | 46.9       | eSKS <sub>1</sub>  | 12 26 00.0 | 89 10 | 80° 2  |
| Blue M.           | eP                 | 49.7       |                    |            | 9000  | 81° 0  |
| Glen Canyon       | eP                 | 52.2       |                    |            | 9010  | 81° 1  |
| Black Rapids      | iP                 | 53.8       |                    |            | 9100  | 81° 9  |
| Dugway            | eP                 | 54.1       |                    |            | 9080  | 81° 7  |
| Tanana            | eP                 | 56.0       |                    |            | 9120  | 82° 1  |
| Presa Infiernillo | iP                 | 57.5       |                    |            | 9130  | 82° 2  |
| Gilmore Creek     | eP                 | 58.1       |                    |            | 9200  | 82° 8  |
| Pedro Dome        | iP                 | 58.2       |                    |            | 9200  | 82° 8  |
| Newport           | eP                 | 59.0       |                    |            | 9210  | 82° 9  |
| Salt Lake City    | eP                 | 59.7       |                    |            | 9180  | 82° 6  |
| Nordman           | eP                 | 16 01.0    |                    |            | 9245  | 83° 2  |
| Uinta Basin       | eP                 | 06.5       | e(S)               | 42.0       | 9320  | 83° 9  |
| Albuquerque       | iP                 | 07.4C      | e                  | 16 35.0    | 9345  | 84° 1  |
| Flaming Gorge     | eP                 | 07.6       |                    |            | 9370  | 84° 3  |
| Butte             | eP                 | 08.4       | e                  | 24.1       | 9390  | 84° 5  |
| Bozeman SSS       | eP                 | 10.5       |                    |            | 9430  | 84° 9  |
| Spokane           | e(P)               | 12.0       |                    |            | 9170  | 82° 5  |
| Nat.Uni.Mexico    | e(P)               | 19         | e(S)               | 26 55      | 9435  | 84° 9  |
| Golden            | eP                 | 19.5       | eSS                | 32 32.0    | 9630  | 86° 7  |
| Barrow            | eP                 | 21.6       |                    |            | 9370  | 87° 0  |
| Edmonton          | eP                 | 22.0       |                    |            | 9710  | 87° 4  |
| Vista Hermosa     | iP                 | 23.5       |                    |            | 9610  | 86° 5  |
| Presa B.Juarez    | eP                 | 30.8C      |                    |            | 9725  | 87° 5  |
| Wichita M.        | eP                 | 35.6       | e(S)               | 27 42      | 9900  | 90° 1  |
| Oulan Bator       | iP                 | 38         |                    |            | 10085 | 90° 8  |
| La Palma          | eP                 | 50.0       |                    |            | 10310 | 92° 8  |
| Coppermine        | eP                 | 52.5       |                    |            | 10430 | 93° 9  |
| North Pole        | eP                 | 17 06.0    |                    |            | 10800 | 97° 2  |
| La Paz            | eP                 | 36         |                    |            | 11615 | 104° 6 |
| Questa            | ePKP               | 22 32.1    |                    |            | 13150 | 118° 4 |
| Uméa              | ePKP               | 38         | eSS                | 42 15      | 14350 | 129° 2 |
| Karoi             | ePKP               | 50         |                    |            | 15365 | 138° 3 |
| Broken Hill       | ePKP               | 56         |                    |            | 15640 | 140° 8 |
| Bulawayo          | ePKP               | 56         |                    |            | 15160 | 136° 4 |
| Niedzica          | ePKP               | 59.5       |                    |            | 15780 | 142° 0 |
| Srobarova         | eIPKP              | 23 09      | ei                 | 23 36      | 16010 | 144° 1 |
| Kasperské Hory    | eIPKP              | 09         |                    |            | 16020 | 144° 2 |
| Mova              | ePKP               | 10         |                    |            | 15910 | 143° 2 |
| Istanbul UTI      | iPKP               | 11         |                    |            | 16055 | 144° 5 |
| Bratislava        | eIPKP              | 11         | ei                 | 24 10.7    | 16055 | 144° 2 |
| Collm             | ePKP               | 13         |                    |            | 15810 | 142° 3 |
| Jérusalem         | iPKP               | 13.5       |                    |            | 16100 | 144° 9 |
| Ljubljana         | ePKP               | 14         |                    |            | 16315 | 146° 8 |
| Stuttgart         | ePKP <sub>1</sub>  | 14.1       |                    |            | 16155 | 145° 4 |
| Folinigre         | eIPKP <sub>1</sub> | 14.4       |                    |            | 16215 | 145° 9 |
| Champ du Feu      | eIPKP <sub>1</sub> | 14.8       |                    |            | 16220 | 146° 0 |
| Fürstentfeldbruck | ePKP <sub>1</sub>  | 15         | iPPKP <sub>1</sub> | 23 27      | 16175 | 145° 6 |
| St. Sauveur       | eIPKP <sub>1</sub> | 15.2       |                    |            | 16230 | 146° 1 |
| Welschbruch       | iPKP               | 15.2       | i                  | 27.8       | 16215 | 146° 0 |

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|                 |                       |       |                   |      |         |    |       |       |
|-----------------|-----------------------|-------|-------------------|------|---------|----|-------|-------|
| Gorron          | e iPKP <sub>1</sub>   | 12 23 | 15·6              |      |         |    | 18250 | 146·2 |
| Strasbourg      | e iPKP <sub>1</sub>   |       | 16                | edLR | 13 16   | -- | 18190 | 145·7 |
| Haudompré       | e iPKP <sub>1</sub>   |       | 16·2              |      |         |    | 18275 | 146·5 |
| Le Pertre       | e iPKP <sub>1</sub>   |       | 17·0              |      |         |    | 18290 | 146·6 |
| Sofia           | ePKP                  |       | 17·6              |      |         |    | 18280 | 146·3 |
| Basel           | ePKP                  |       | 18                |      |         |    | 18310 | 146·8 |
| Pruhonicé       | ePKP                  |       | 19                |      |         |    | 18310 | 143·2 |
| Sommée Lormes   | e iPKP <sub>1</sub>   |       | 19·2              |      |         |    | 18375 | 147·4 |
| Garchy          | ePKP                  |       | 19·3 <sup>C</sup> |      |         |    | 18375 | 147·4 |
| Les Buteaux     | e iPKP <sub>1</sub>   |       | 19·8              |      |         |    | 18405 | 147·7 |
| St. Saulge      | e iPKP <sub>1</sub>   |       | 19·8              |      |         |    | 18395 | 147·5 |
| Vouglans        | ePKP <sub>1</sub>     |       | 22                | ei   | 23 39·1 |    | 18460 | 148·1 |
| Lanslevillard   | ePKP <sub>1</sub>     |       | 22                | ei   | 29·4    |    | 18565 | 149·1 |
| Toulx Ste Croix | e iPKP <sub>1</sub>   |       | 22·7              |      |         |    | 18490 | 148·4 |
| Campulung       | (PKP)                 |       | 23                |      |         |    | 18950 | 143·6 |
| Helwan          | iPKP                  |       | 24                | i    | 29      |    | 18520 | 148·7 |
| Clermont        | ePKP <sub>1</sub>     |       | 25·5              | e    | 57      |    | 18545 | 148·9 |
| Erlangen        | e (PKP <sub>1</sub> ) |       | 26·2 <sup>C</sup> |      |         |    | 18015 | 144·1 |
| Monteynard      | ePKP <sub>1</sub>     |       | 26·5              |      |         |    | 18615 | 149·5 |
| Besançon        | ePKP <sub>1</sub>     |       | 28                | ei   | 52·0    |    | 18380 | 147·2 |
| Addis Ababa     | e (PKP)               |       | 29                |      |         |    | 18910 | 143·2 |
| Toledo          | ePKP <sub>1</sub>     |       | 37·5              | LQ   | 53 00   |    | 17150 | 154·3 |
| Bangui          | iPKP <sub>1</sub>     |       | 37·9              | 1PP  | 27 38·6 |    | 17820 | 160·4 |
| Tamanrasset     | ePKP                  |       | 45                |      |         |    | 19005 | 171·0 |

inscrit à Nurmijaerwi - Ksara - Pavia - M'Bour - Uccle -  
Ponta Delgada - l'Aquila - Trieste.

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Haute-Silésie.

|          |     |       |      |
|----------|-----|-------|------|
| Zabrze   | e   | 12 10 | 00·0 |
| Bytom    | e   |       | 02·0 |
| Dabrova  | e   |       | 06·0 |
| Niedzica | ePg |       | 24·0 |
| Krakow   | eSg |       | 24   |

XIV.- 18 Janvier

Données insuffisantes.

|             |      |       |      |       |            |
|-------------|------|-------|------|-------|------------|
| Kiruna      | e(P) | 12 34 | 03   | i(Sg) | 12 34 39·9 |
| Umeå        | i(P) |       | 37·1 |       |            |
| Nurmijaerwi | eP   |       | 45   |       |            |
| Sodankylä   | eP   | 35    | 32   |       |            |
| Skalstugan  | e(P) |       | 50   |       |            |
| Kevo        | eP   |       | 55   |       |            |

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XV.- 18 Janvier

Cote Sud de la Norvège.

57° 9' N ; 6° 9' E ; H = 12<sup>h</sup>.54<sup>mn</sup>48<sup>s</sup>. (Uppsala)

|             |     |          |     |            |  |
|-------------|-----|----------|-----|------------|--|
| Kongsberg   | eP  | 12 55 34 |     |            |  |
| Göteborg    | iPg | 42.4     | 1Sg | 12 56 17.0 |  |
| Lillehammer | eP  | 52       |     |            |  |
| Uddeholm    | iP  | 56 07    | 1Sn | 42.7       |  |
| Skalstugan  | eSg | 58 13    |     |            |  |

XVI.- 18 Janvier

Région Est de la Nouvelle Guinée.

5° 5' S ; 146° 2' E ; h = 33<sup>km</sup> ; H = 13<sup>h</sup>.56<sup>mn</sup>34<sup>s</sup>. (CGS)

M. = 5.8 (Rabaul)

|                 |     |                   |    |          |      |      |
|-----------------|-----|-------------------|----|----------|------|------|
| Tabele          | eIP | 13 57 03          |    |          | 200  | 1.8  |
| Port Moresby    | iP  | 34.2 <sup>D</sup> | eS | 13 58 21 | 445  | 4.0  |
| Keravat         | eP  | 58 02.5           |    |          | 675  | 6.0  |
| Esa'Ala         | iP  | 04                | 1S | 59 14    |      |      |
| Rabaul          | iP  | 04.4 <sup>D</sup> |    |          | 680  | 6.1  |
| Charters Towers | iP  | 14 00 00.2        |    |          | 1610 | 14.5 |

XVII.- 18 Janvier

Iles Loyauté

21° 5' S ; 171° E ; H = 14<sup>h</sup>.31<sup>mn</sup>38<sup>s</sup>. ; M. = 3.5 (Nouméa)

|          |    |                         |    |          |  |
|----------|----|-------------------------|----|----------|--|
| Ouanaham | iP | 14 32 21.0 <sup>C</sup> | 1S | 14 33 03 |  |
| Nouméa   | iP | 30.3 <sup>D</sup>       | 1S | 19       |  |

XVIII.- 18 Janvier

Près de la cote de Hondo (Japon)

35° 6' N ; 140° 2' E ; h = 82<sup>km</sup> ; H = 15<sup>h</sup>.15<sup>mn</sup>47.4<sup>s</sup>. (CGS)  
 35° 32' N ; 140° 07' E ; h = 80<sup>km</sup> ; H = 15<sup>h</sup>.15<sup>mn</sup>46.6<sup>s</sup>. (JMA)

|             |    |            |    |            |     |     |
|-------------|----|------------|----|------------|-----|-----|
| Kyosumi     | iP | 15 16 00.6 |    |            | 45  | 0.4 |
| Yokohama    | eP | 01.1       | 1S | 15 16 10.8 |     |     |
| Tokyo       | eP | 01.5       |    |            |     |     |
| Choshi      | eP | 02.5       | S  | 14.8       |     |     |
| Mt. Tsukuba | iP | 03.9       |    |            | 70  | 0.6 |
| Mi to       | P  | 05.5       | S  | 17.6       |     |     |
| Ajiro       | eP | 06.2       | 1S | 19.3       |     |     |
| Dodai ra    | iP | 06.3       |    |            | 100 | 0.9 |
| Utsunomiya  | P  | 11.3       | eS | 20.0       |     |     |



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|            |    |            |   |          |     |     |
|------------|----|------------|---|----------|-----|-----|
| Matsushiro | iP | 15 16 18.0 | S | 15 16 40 | 210 | 1.9 |
| Abuyama    | iP | 45.2       |   |          |     |     |
| Oishiyama  | eP | 51.2       |   |          | 480 | 4.3 |
| Wakaura    | eP | 52.8       |   |          | 490 | 4.4 |
| Shiraki    | eP | 17 19.6    |   |          | 700 | 6.3 |
| Kiruna     | iP | 26 28.9    |   |          |     |     |
| Kajaani    | eP | 37         |   |          |     |     |

XIX. 18 janvier  
Probablement explosion dans le Nevada

M = 4 (Berkeley)

|             |    |            |   |          |  |  |
|-------------|----|------------|---|----------|--|--|
| Jamestown   | eP | 16 30 57.3 | e | 16 31 06 |  |  |
| Priest      | eP | 31 02.0C   | e | 32 03    |  |  |
| Mt Hamilton | eP | 08.2C      | e | 16       |  |  |
| Mineral     | eP | 23.7C      | i | 31 46    |  |  |
| Berkeley    | eP | 27.5C      | e | 32 31    |  |  |

XX. 18 janvier  
Ilot Mathew

23° 1/4 S, 170° 1/2 E

H = 17h 37<sup>mn</sup> 15<sup>s</sup>  
M = 3.5 (Nouméa)

|           |     |             |    |            |  |  |
|-----------|-----|-------------|----|------------|--|--|
| Nouméa    | iP  | 17 38 15.3C | iS | 17 38 57.5 |  |  |
| Port Vila | eIP | 37.0C       | iS | 39 42      |  |  |

XXI. 18 janvier  
Données insuffisantes

|             |       |          |   |            |  |  |
|-------------|-------|----------|---|------------|--|--|
| Kongsberg   | eP    | 17 56 45 | i | 17 57 15.1 |  |  |
| Lillehammer | eP    | 57 12    |   |            |  |  |
| Uddeholm    | i(Sg) | 58 17.5  |   |            |  |  |
| Skalstugan  | i(Sg) | 19.2     |   |            |  |  |

XXII. 18 janvier  
Sagera Swamp (Tanzanie)

4° 3 S, 31° 1 E

H = 19h 28<sup>mn</sup> 32<sup>s</sup>  
M = 3.7 (Bulawayo)

|             |     |          |     |          |  |  |
|-------------|-----|----------|-----|----------|--|--|
| Broken Hill | ePn | 19 31 00 | eSn | 19 32 54 |  |  |
| Karoi       | ePn | 27       | eSn | 33 37    |  |  |
| Bulawayo    | eP  | 32 16    | eL  | 36 52    |  |  |

XXIII. 18 janvier  
Région frontière Birmanie - Inde

24° 3 N, 96° 2 E h = 100 km H = 19h 57<sup>mn</sup> 13<sup>s</sup> (CGS)  
M = 4.7 (Kajaani, CGS)

|            |    |          |    |            |      |      |
|------------|----|----------|----|------------|------|------|
| Chittagong | eP | 19 57 36 |    |            | 190  | 1.7  |
| Shillong   | eP | 42.5     |    |            | 190  | 1.7  |
| Chatra     | iP | 58 39.8  | e  | 19 59 54.2 |      |      |
| Calcutta   | i  | 54       |    |            |      |      |
| Bokaro     | i  | 58       |    |            |      |      |
| New Delhi  | eP | 20 00 37 | eS | 20 03 16   |      |      |
| Quetta     | eP | 02 19.3C |    |            | 2670 | 24.0 |

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|             |     |            |   |            |       |      |
|-------------|-----|------------|---|------------|-------|------|
| Dehra Dun   | i   | 19 03 18.2 | i | 20 03 28.1 |       |      |
| Chiraz      | eP  | 04 08      |   |            | 40.20 | 36.2 |
| Poona       | e   | 36         |   |            |       |      |
| Kajaani     | eP  | 06 55      |   |            | 64.10 | 57.7 |
| NurmiJaervi | eP  | 07 01      |   |            | 65.10 | 58.6 |
| Sodankylae  | iP  | 03.2       |   |            | 65.30 | 58.8 |
| Umea        | iP  | 16.5       |   |            |       |      |
| Niedzica    | eip | 17.6       |   |            |       |      |
| Uppsala     | iP  | 24.5       |   |            |       |      |
| Uddeholm    | iP  | 36.6       |   |            |       |      |
| Les Buteaux | eP  | 08 28.8    |   |            |       |      |
| St Saulge   | eP  | 28.9       |   |            | 80.45 | 72.4 |
| Resolute    | eP  | 09 18.0    |   |            | 90.10 | 81.1 |

XXIV. 18 janvier  
Région de la Nouvelle Bretagne

H = 20h 44<sup>m</sup> 28<sup>s</sup> M = 5.4 (Raubal)

|              |      |           |    |          |      |     |
|--------------|------|-----------|----|----------|------|-----|
| Raubal       | eP   | 20 45 40D | eS | 20 46 37 | 55.5 | 5.0 |
| Keravat      | e(P) | 40.5      | iS | 27       |      |     |
| Esa'Ala      | eP   | 52.5      | eS | 43       |      |     |
| Port Moresby | eP   | 46 39     | eS | 48 09    |      |     |
| Warramunga   | eP   | 49 48.5   |    |          |      |     |

XXV. 18 janvier  
Sud-Ouest de la Province de Sofala (Mozambique)

21° 18' 32° 6'E

H = 21h 16<sup>m</sup> 14<sup>s</sup>

M = 2.7 (Bilawayo)

|          |     |          |     |          |  |  |
|----------|-----|----------|-----|----------|--|--|
| Bilawayo | ePn | 21 17 14 | eSg | 21 18 15 |  |  |
| Karoi    | ePn | 31       | eSg | 52       |  |  |

XXVI. 18 janvier  
Nord de Severnaya Zembya

82° 3'N, 117° 8'E h = 33km H = 21h 57<sup>m</sup> 00<sup>s</sup> (CGS)

M = 4.8 (Wichita M), 4.7 (Albuquerque), 4.6 (Dugway, Uinta Basin, Blue M), 4.5 (Eureka), 4.4 (CGS, College), 4.0 (Tonto Forest), 3.8 (North Pole)

|               |    |            |   |            |       |      |
|---------------|----|------------|---|------------|-------|------|
| North Pole    | eP | 22 01 22.7 |   |            | 2130  | 19.2 |
| Mould Bay     | eP | 23.0       |   |            | 2130  | 19.2 |
| Barrow        | eP | 27.5       |   |            | 2190  | 19.7 |
| Kevo          | iP | 53.4       | i | 22 02 05.0 | 2420  | 21.8 |
| Sodankylae    | eP |            |   |            | 2630  | 24.1 |
| Kiruna        | eP | 20         |   |            | 2720  | 24.5 |
| Gilmore Creek | eP | 40.0       |   |            | 2990  | 26.9 |
| Kajaani       | eP | 41         |   |            | 30 10 | 27.1 |
| College       | eP | 43.0       |   |            | 2990  | 26.9 |
| Coppermine    | eP | 45.0       |   |            | 3070  | 27.6 |
| Newport       | eP | 05 26.0    |   |            | 5210  | 46.7 |
| Hungry Horse  | eP | 28.9       | e | 05 37.9    | 6220  | 47.0 |
| Blue M.       | eP | 54.1       | e | 06 01.4    | 5270  | 50.1 |

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|              |      |       |       |      |            |      |      |
|--------------|------|-------|-------|------|------------|------|------|
| Uinta Basin  | eP   | 22 06 | 31.0  |      |            | 6145 | 55.3 |
| Eureka       | iP   |       | 34.2  |      |            | 6170 | 55.5 |
| Dugway       | eP   |       | 36.6  |      |            | 6130 | 55.2 |
| Jamestown    | eP   |       | 41.5C |      |            | 6230 | 56.6 |
| Mt Hamilton  | eP   |       | 43.0C |      |            | 6345 | 57.1 |
| China Lake   | P    |       | 59.0  | SP   | 22 07 05.0 | 6555 | 59.0 |
| Priest       | e(P) | 07    | 03.0C |      | 12.7       | 6490 | 58.4 |
| Albuquerque  | eP   |       | 10.5  |      |            | 6780 | 61.0 |
| Tonto Forest | eP   |       | 13.5  |      |            | 6800 | 61.2 |
| Wichita M.   | eP   |       | 16.4  | ePCP | 48.6       | 6870 | 61.8 |
| Minera 1     | ePCP |       | 23.6C |      |            | 6010 | 54.1 |

XXVII. 18 janvier  
Région de Hokkaido

(Japon)

41°1'N, 142°6'E h = 67 km H = 23<sup>h</sup>36<sup>mn</sup>22.3<sup>s</sup> (CGS)  
 41°0'N, 143°1'E H = 23<sup>h</sup>36<sup>mn</sup>19<sup>s</sup> (URSS)  
 41°04'N, 142°44'E h = 40 km H = 23<sup>h</sup>36<sup>mn</sup>22.4<sup>s</sup> (JMA)  
 M = 5.1 (NurmiJaervi, Kajaani), 4.8 (JMA), 4.7 (North Pole), 4.6  
 (Wichita M), 4.5 (CGS), 4.3 (Uinta Basin), 4.2 (Eureka), 3.9  
 (Blue M).

|                   |    |       |       |    |       |      |           |
|-------------------|----|-------|-------|----|-------|------|-----------|
| Hachinohe         | iP | 23 36 | 41.5  | iS | 23 36 | 57.6 |           |
| Aomori            | iP |       | 47.8  | S  | 37    | 06.8 |           |
| Morioka           | P  |       | 52.8  | S  |       | 16.1 |           |
| Sapporo           | eP | 37    | 00    | iS |       | 26.2 |           |
| Sendai            | eP |       | 14.5  | eS | 38    | 09.4 |           |
| Mt Tsukuba        | iP |       | 39.8  | eS |       | 39.8 | 590 5.3   |
| Youjno Sakhalinsk | iP |       | 43D   | eS |       | 54   |           |
| Matsushiro        | P  |       | 48    |    | 39    | 10   | 630 5.7   |
| Dodaira           | iP |       | 48.4  |    |       |      | 645 5.8   |
| Kyosumi           | iP |       | 53.5  |    |       |      | 690 6.2   |
| Vladivostok       | eP | 38    | 2     |    |       |      |           |
| Oishiyama         | eP |       | 34.1  |    |       |      | 1010 9.1  |
| Shiraki           | P  |       | 50.9  |    |       |      | 1145 10.3 |
| Bodajbo           | iP | 41    | 39    |    |       |      |           |
| Semipalatinsk     | eP | 44    | 21    |    |       |      |           |
| Shillong          | iP |       | 31.2  |    |       |      | 4945 44.5 |
| College           | eP |       | 37.0  |    |       |      | 5020 45.2 |
| Gilmore Creek     | eP |       | 43.4  |    |       |      | 5030 45.3 |
| Chatra            | iP |       | 57D   |    |       |      |           |
| Mould Bay         | eP | 45    | 31.0  |    |       |      | 5810 52.3 |
| North Pole        | eP |       | 31.0  |    |       |      | 5810 52.3 |
| Sverdlovsk        | eP |       | 35    |    |       |      |           |
| Garm              | eP |       | 42    |    |       |      |           |
| New Delhi         | eP |       | 43    |    |       |      |           |
| Coppermine        | eP | 46    | 03.6  |    |       |      | 6330 57.0 |
| Resolute          | eP |       | 13.7  |    |       |      | 6430 58.4 |
| Kevo              | eP |       | 28    |    |       |      | 6670 60.0 |
| Quetta            | eP |       | 31.1C |    |       |      | 6745 60.7 |
| Sodankylae        | eP |       | 36    |    |       |      | 6845 61.6 |
| Oulu              | eP |       | 47    |    |       |      |           |
| Kajaani           | iP |       | 47.7  |    |       |      | 7030 63.3 |

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|                |      |       |       |      |       |      |      |
|----------------|------|-------|-------|------|-------|------|------|
| Uméa           | iP   | 23 47 | 04.4  |      |       |      |      |
| Nurmijaervi    | iP   |       | 10.0  |      |       | 7420 | 66.8 |
| Blue M.        | eP   |       | 23.6  |      |       | 7610 | 68.5 |
| Kirovabad      | P    |       | 24    |      |       |      |      |
| Uppsala        | iP   |       | 35.3  |      |       |      |      |
| Lillehammer    | iP   |       | 35.9  |      |       | 7860 | 70.9 |
| Frobisher      | eP   |       | 45.0  |      |       | 8070 | 72.6 |
| Eureka         | iP   |       | 47.2  |      |       | 8070 | 72.6 |
| Uinta Basin    | eP   | 48    | 05.0  | ePcP | 23 48 | 8420 | 75.8 |
| Dugway         | e(P) |       | 07.5  |      |       | 8220 | 74.0 |
| Krakow         | eIP  |       | 08.0C |      |       |      |      |
| China Lake     | (P)  |       | 09    |      |       | 8210 | 73.9 |
| Niedzica       | eIP  |       | 10.1C |      |       |      |      |
| Colim          | eP   |       | 17    |      |       | 8670 | 78.0 |
| Práhonice      | P    |       | 20.7  |      |       | 8720 | 78.5 |
| Kasperské Hory | eIP  |       | 26    |      |       |      |      |
| Tonto Forest   | ePcP |       | 35.3  | e    | 4 9   | 8755 | 78.8 |
| Wichita M.     | eP   |       | 48.9  |      |       | 9545 | 85.9 |
| Roselend       | eP   |       | 54.6  |      |       |      |      |
| Lanslevillard  | eIP  |       | 56.6  | ei   | 48    | 59.0 |      |

inscrit à Abuyama.

I. 19 janvier

Nouvelles Hébrides (île Vaté)

|            |                   |               |               |
|------------|-------------------|---------------|---------------|
| Vers       | 16°3/4S, 167°1/2E | H = 01h17m23s | (Nouméa)      |
| Port Vila  | iP                | 01 17 44.6C   | iS 01 18 00.5 |
| Luganville | eP                | 18 14.3(C)    | iS 51         |
| Koumac     | iP                | 31.8D         | iS 19 27      |
| Nouméa     | iS                | 19 16         |               |

II. 19 janvier

Iles Ioniennes

|            |              |               |                       |
|------------|--------------|---------------|-----------------------|
| Vers       | 38°0N, 20°0E | H = 02h03m25s | (Athènes)             |
| M = 2.3    | (Athènes)    |               |                       |
| Val samata | iPg          | 02 03 33.8C   | eSg 02 05 35.9 50 0.4 |
| Athènes    | ePg          | 04 21.6       | eSn 04 48.9 320 2.9   |
| Vamos      | ePn          | 31.5          | 460 4.1               |
| Uddeholm   | eP           | 08 25.8       |                       |

III. 19 janvier

Golfe de l'Alaska

|                 |                     |                    |                     |
|-----------------|---------------------|--------------------|---------------------|
| 56°1N, 149°0W   | h = 33km            | H = 03h23m43.1s    | (CGS)               |
| M = 4.4         | (Tonto Forest), 4.3 | (Uinta Basin), 4.2 | (CGS, Wichita)      |
| M, Blue M), 4.1 | (Eureka).           |                    |                     |
| Kodiak          | iP                  | 03 24 22.5         | 280 2.5             |
| Palmer          | eP                  | 25 04.3            | eS 03 25 42 610 5.5 |
| College         | eP                  | 505 5              | 960 8.8             |
| Gilmore Creek   | eP                  | 52.2               | 990 8.9             |

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|              |     |           |              |       |       |
|--------------|-----|-----------|--------------|-------|-------|
| Coppermine   | EP  | 03 28 097 |              | 2165  | 19.5  |
| Edmonton     | EP  | 22        |              | 2300  | 20.7  |
| Newport      | EP  | 24        |              | 2320  | 20.9  |
| Nordman      | EP  | 24        |              | 2310  | 20.8  |
| Hungry Horse | EP  | 41.7      |              | 2510  | 22.6  |
| Blue M.      | EP  | 44.6      |              | 2545  | 22.9  |
| Mineral      | EP  | 54.6C     |              |       |       |
| Jamestown    | EP  | 29 17.2C  | e 03 29 25.2 | 2920  | 26.3  |
| Eureka       | IP  | 26.8      |              | 3045  | 27.4  |
| Resolute     | EP  | 30        |              | 3065  | 27.6  |
| Dugway       | ePP | 48.6      |              | 3165  | 28.5  |
| Uinta Basin  | EP  | 52.2      |              | 3345  | 30.1  |
| Tonto Forest | EP  | 30 2.3    |              | 3755  | 33.   |
| Wichita M.   | EP  | 31 18.0   |              | 4465  | 40.2  |
| Sodankylae   | EP  | 33 35     |              |       |       |
| Oulu         | EP  | 42        |              |       |       |
| South pole   | PKP | 43 19.6   |              | 16210 | 145.9 |

IV. 19 Janvier  
Nouvelles Hébrides (Ile Vaté)

18°2S, 168°6E

H = 04h33<sup>mn</sup>40<sup>s</sup> (Nouméa)

M = 4.3 (Nouméa)

|            |     |             |    |          |
|------------|-----|-------------|----|----------|
| Port Vila  | IP  | 04 33 52.9D | IS | 04 34 00 |
| Luganville | IP  | 34 29.9(D)  |    |          |
| Nouméa     | eIP | 48.5        | IS | 35 41    |
| Koumac     | IP  | 50.4C       | IS | 48.5     |

V. 19 Janvier  
Iles Salomon

9°4S, 158°4E h = 33<sup>km</sup>

H = 06h04<sup>mn</sup>33.2<sup>s</sup> (CGS)

8°8S, 158°4E

H = 06h04<sup>mn</sup>39<sup>s</sup> (URSS)

Ressertti à Honiara.

M = 7.0 (Lvov), 6.9 (Strasbourg, Shiraki), 6.8 (Roma, Eureka)  
6.7 - 6.8 (Berkeley), 6 3/4 (Pasadena, Palisades), 6.7  
(Uppsala, Kiruna, Baguio), 6.6 (Coppermine), 6 1/2 - 6 3/4  
(Golden), 6.5 (URSS, Poona), 6.4 (College), 6.3 (South Pole,  
Lembang), 6.2 (Uinta Basin), 6.0 (CGS, JMA, Palmer, Tonto Forest,  
Adelaide), 5.9 (Newport, Mt Tsukuba), 5.8 (Dugway, Mould Bay),  
5.6 (Lasa Center, Wichita M), 5.2 (Kipapa), 5.1 (Blue M).

|              |    |          |    |          |      |      |
|--------------|----|----------|----|----------|------|------|
| Honiara      | IP | 06 05 00 | IS | 06 05 15 | 165  | 1.5  |
| Esa'Ala      | IP | 06 30.5  | es | 07 57    | 830  | 7.5  |
| Rabalanakia  | EP | 37D      |    |          | 890  | 8.0  |
| Rabaul       | IP | 37.8     | es | 08 23    | 890  | 8.0  |
| Luganville   | IP | 07 06.2C |    |          | 1165 | 10.5 |
| Port Moresby | IP | 21.9     |    |          | 1235 | 11.1 |
| Koumac       | IP | 37C      |    |          | 1385 | 12.5 |
| Port Vila    | IP | 37.9C    |    |          | 1410 | 12.7 |
| Tabele       | IP | 08 02.5D |    |          | 1585 | 14.3 |

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|                   |      |                         |      |          |      |      |
|-------------------|------|-------------------------|------|----------|------|------|
| Nouméa            | iP   | 06 08 08.8 <sup>D</sup> | i    | 06 12 23 | 1665 | 15.0 |
| Charters Towers   | iP   | 19                      | iS   | 11 00    | 1765 | 15.9 |
| Brisbane          | iP   | 56                      |      |          | 2080 | 18.7 |
| Warramunga        | iP   | 10 05 <sup>C</sup>      |      |          | 2830 | 25.5 |
| Guam              | P    | 14                      |      |          | 2935 | 26.4 |
| Canberra          | eP   | 21                      | iS   | 15 00    | 3020 | 27.2 |
| Afiamalau         | eP   | 40                      | eS   | 30       | 3280 | 29.5 |
| Toolangi          | eP   | 49                      | eS   | 54       | 3380 | 30.4 |
| Adélaïde          | iP   | 58.2                    |      |          | 3465 | 31.2 |
| Karapiro          | eP   | 11 00                   | e    | 22       | 3590 | 32.3 |
| Onerahi           | e(P) | 04                      |      |          | 3395 | 30.0 |
| Wellington        | eP   | 34                      |      |          | 3880 | 34.9 |
| Davao             | eP   | 42                      |      |          | 4065 | 36.6 |
| Monowai           | eP   | 47                      |      |          | 4125 | 37.1 |
| Kalgoorlie        | iP   | 12 16 <sup>C</sup>      |      |          | 4490 | 40.4 |
| Neekatharra       | iP   | 27.1 <sup>C</sup>       |      |          | 4595 | 41.4 |
| Rarotonga         | eP   | 27.5                    | eS   | 18 48    | 4655 | 41.8 |
| Manila            | P    | 48                      |      |          | 4890 | 44.0 |
| Mundaring         | iP   | 52.7                    |      |          | 5010 | 45.1 |
| Baguio            | iP   | 54                      | iS   | 19 32    | 5045 | 45.4 |
| Ajiro             | eP   | 13 14                   |      |          | 5315 | 47.8 |
| Kiyosumi          | eP   | 14.4                    |      |          | 5290 | 47.6 |
| Chiyama           | eP   | 18                      |      |          | 5390 | 48.5 |
| Tokyo             | eP   | 18                      | eS   | 20 20    | 5350 | 48.2 |
| Mt. Tsukuba       | eP   | 18.1                    | iS   | 13.1     | 5390 | 48.5 |
| Wakaura W         | eP   | 19.4                    |      |          | 5400 | 48.6 |
| Osaka             | eP   | 20                      |      |          | 5430 | 48.9 |
| Dodaira           | eP   | 20.5                    | eS   | 25.3     | 5400 | 48.6 |
| Hwalien           | eP   | 20.7                    | e(S) | 41       | 5435 | 48.9 |
| Taitung           | eP   | 22.1                    | S    | 22 10    | 5390 | 48.5 |
| Abuyama           | iP   | 22.3                    |      |          | 5450 | 49.1 |
| Yokohama          | eP   | 24                      |      |          | 5330 | 48.0 |
| Matsushiro        | P    | 27                      |      |          | 5500 | 49.5 |
| Anpu              | P    | 30.5                    | S    | 20 44    | 5520 | 49.7 |
| Shiraki           | P    | 31.2                    |      |          | 5555 | 50.0 |
| Nagasaki          | eP   | 32                      | S    | 33       | 5550 | 50.0 |
| Lembang           | iP   | 33                      |      |          | 5590 | 50.3 |
| Morioka           | eP   | 38.9                    | eS   | 56.4     | 5710 | 51.4 |
| Tahiti            | eP   | 40.5                    |      |          | 5680 | 51.1 |
| Aomori            | P    | 48                      | S    | 21 24    | 5840 | 52.5 |
| Kipapa            | eP   | 50                      | eS   | 23       | 5845 | 52.6 |
| Honolulu          | eP   | 51                      | eS   | 18       | 5835 | 52.5 |
| Hawai Volc.Obs.   | iP   | 58.7                    |      |          | 5980 | 53.8 |
| Hong_Kong         | iP   | 59 <sup>C</sup>         | iS   | 37       | 5955 | 53.6 |
| Kourilsk          | eP   | 14 03                   |      |          | 6135 | 55.2 |
| Séoul             | iP   | 04.5                    |      |          | 6135 | 65.2 |
| Sapporo           | e(P) | 14                      | eS   | 38       | 6055 | 54.5 |
| Vladivostok       | eP   | 26                      |      |          | 6400 | 57.6 |
| Youjno_Sakhalinsk | eP   | 37.2                    | eS   | 22 49    | 6510 | 58.6 |
| Severo_Kourilsk   | eP   | 40.7                    | eS   | 42.7     | 6650 | 59.8 |
| Petropavlovsk     | eP   | 56                      |      |          | 6910 | 62.2 |

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|                   |    |       |                   |      |         |      |       |      |
|-------------------|----|-------|-------------------|------|---------|------|-------|------|
| Adak              | iP | 06 15 | 14°3              |      |         |      | 7190  | 64°7 |
| Port Blair        | iP |       | 40                | iS   | 06 24   | 48   | 7620  | 68°6 |
| Magadan           | iP |       | 40 <sup>C</sup>   | S    |         | 43   | 7665  | 69°0 |
| Scott Base        | eP |       | 41                | S    |         | 53   | 7620  | 68°6 |
| Mimy              | iP | 16 04 |                   | eS   | 25 18   |      | 7980  | 71°8 |
| Chittagong        | P  |       | 04                | S    |         | 30   | 8050  | 72°4 |
| Oulan_Bator       | iP |       | 07                | i    | 26 15   |      | 8105  | 73°0 |
| Shillong          | iP |       | 08°9              |      |         |      | 8155  | 73°4 |
| Bodajbo           | eP |       | 23 <sup>C</sup>   |      |         |      | 8450  | 76°1 |
| Calcutta          | iP |       | 27                | i    |         | 08   | 8395  | 75°5 |
| Irkoutsk          | iP |       | 28 <sup>C</sup>   | S    |         | 15   | 8540  | 76°8 |
| Big Mountain      | eP |       | 32°8              |      |         |      | 8655  | 77°9 |
| Chatra            | iP |       | 35 <sup>D</sup>   |      |         |      | 8650  | 77°8 |
| Bokaro            | iP |       | 36                | i    |         | 33   | 8685  | 78°2 |
| Esen_Boulak       | iP |       | 38                | i(S) |         | 48   | 8705  | 78°4 |
| Vishakhapatnam    | iP |       | 39                | i    |         | 41   | 8765  | 78°9 |
| Sparrevohn        | eP |       | 40                |      |         |      | 8765  | 78°9 |
| Byrd              | P  |       | 43°9              | i    |         | 44°2 | 8835  | 79°5 |
| South Pole        | iP |       | 49°9              | iS   | 27 03   |      | 8965  | 80°7 |
| Madras            | iP |       | 51                | i    |         | 00   | 8975  | 80°8 |
| Palmer            | eP |       | 53°2              | eS   |         | 00   | 9065  | 81°6 |
| Port_aux_Français | eP |       | 57                |      |         |      | 9085  | 81°8 |
| Mts Sheep Creek   | eP |       | 58°3              |      |         |      | 9165  | 82°5 |
| Tiksi             | eP | 17 00 |                   | iS   |         | 16   | 9245  | 83°2 |
| Tanana            | eP |       | 01°6              |      |         |      | 9220  | 83°0 |
| Kodaikanal        | iP |       | 03                | i    |         | 22   | 9205  | 82°9 |
| Mawson            | iP |       | 05°5              | iS   |         | 30°5 | 9280  | 83°5 |
| College           | eP |       | 05°5              |      |         |      | 9345  | 84°1 |
| Black Rapids      | eP |       | 05°8              |      |         |      | 9335  | 84°0 |
| Gilmore Creek     | eP |       | 06                |      |         |      | 9365  | 84°3 |
| Pedro Dome        | eP |       | 06°4              |      |         |      | 9365  | 84°3 |
| Barrow            | iP |       | 14°7 <sup>C</sup> |      |         |      | 9535  | 85°8 |
| Dehra Dun         | iP |       | 19 <sup>C</sup>   | iS   | 27 50   |      | 9610  | 86°5 |
| New Dehli         | iP |       | 19°2              | iSKS |         | 56   | 9645  | 86°8 |
| Ukiah             | eP |       | 24                |      |         |      | 9665  | 87°0 |
| Goa               | eP |       | 24                | iS   | 28 05°3 |      | 9700  | 87°3 |
| Poona             | iP |       | 25°5 <sup>C</sup> | iS   | 27 52°8 |      | 9755  | 87°8 |
| Mt. Hamilton      | eP |       | 26°0 <sup>C</sup> | e    | 20 56°2 |      | 9745  | 87°7 |
| Berkeley          | P  |       | 27                | S    |         | 55   | 9710  | 87°4 |
| San Luis Dam      | iP |       | 27°6              | eS   | 27 59°5 |      | 9780  | 88°0 |
| Oroville          | iP |       | 28°1              | e    | 28 17°5 |      | 9810  | 88°3 |
| Priest            | eP |       | 29°0 <sup>C</sup> | e    | 18 19   |      | 9800  | 88°2 |
| Mineral           | eP |       | 30°3 <sup>C</sup> |      |         |      | 9830  | 88°5 |
| Jamestown         | eP |       | 30°7 <sup>C</sup> | e    | 21 00°3 |      | 9865  | 88°8 |
| Bombay            | iP |       | 32                | i    | 28 01   |      | 9875  | 88°9 |
| Frounze           | iP |       | 35 <sup>C</sup>   |      |         |      | 10200 | 91°8 |
| Talgar            | iP |       | 35 <sup>C</sup>   |      |         |      | 9990  | 89°9 |
| Lahore            | P  |       | 35                | (S)  |         | 03   | 9985  | 89°9 |
| Longmire          | eP |       | 35                | eS   | 28°1    |      | 9985  | 89°9 |
| Pasadena          | iP |       | 35                | iSKS |         | 03   | 9980  | 89°8 |
| Blue M.           | eP |       | 47°6              |      |         |      | 10280 | 92°5 |
| Eureka            | iP |       | 48°4 <sup>C</sup> | ePP  | 21 32   |      | 10280 | 92°5 |

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|                   |                      |       |                   |      |       |       |       |       |
|-------------------|----------------------|-------|-------------------|------|-------|-------|-------|-------|
| Newport           | iP                   | 06 17 | 50·1              |      |       | 10355 | 93·2  |       |
| Boulder City      | eP                   |       | 50·9              | e    | 06 21 | 29·9  | 10310 | 92·8  |
| Irbat             | P                    |       | 51 <sup>C</sup>   |      |       |       | 10355 | 93·3  |
| Nordman           | iP                   |       | 51                |      |       |       | 10380 | 93·4  |
| Garm              | eP                   |       | 56·5              |      |       |       | 10485 | 94·4  |
| Koulyab           | eP                   |       | 56·8 <sup>D</sup> |      |       |       | 10515 | 94·6  |
| Digway            | eP                   | 18    | 00·6              |      |       |       | 10555 | 95·0  |
| Tachkent          | eP                   |       | 01 <sup>D</sup>   |      |       |       | 10605 | 95·5  |
| Hungry Horse      | eP                   |       | 01·3              | ePP  | 22    | 27·8  | 10590 | 95·3  |
| Tonto Forest      | eP                   |       | 02                | eSKS | 28    | 43·2  | 10610 | 95·5  |
| Qizetta           | eP                   |       | 02·7              | e(S) |       | 41·6  | 10655 | 95·9  |
| Douchambé         | iP                   |       | 03 <sup>D</sup>   |      |       |       |       |       |
| Bitte             | eP                   |       | 04                | esp  | 18    | 17·2  | 10665 | 96·0  |
| Edmonton          | eP                   |       | 04                |      |       |       | 10710 | 96·4  |
| Salt Lake City    | eP                   |       | 05·7              |      |       |       | 10645 | 95·8  |
| Bozeman SSS       | eP                   |       | 06                | e(S) | 29    | 00    | 10735 | 96·6  |
| Glen Canyon       | eP                   |       | 06·4              |      |       |       | 10610 | 95·5  |
| Tucson            | eP                   |       | 06·4              | es   |       | 28    | 10620 | 95·6  |
| Flagstaff         | iP                   |       | 06·5              | i(S) | 28    | 44·2  | 10580 | 95·2  |
| Samarkand         | eP                   |       | 07                |      |       |       | 10780 | 97·0  |
| Mould Bay         | eP                   |       | 07·1 <sup>C</sup> |      |       |       | 10800 | 97·2  |
| Coppermine        | eP                   |       | 08·3 <sup>C</sup> |      |       |       | 10810 | 97·3  |
| Novo-Lazarevskaya | eP                   |       | 11                | iS   | 29    | 32·5  | 10765 | 96·9  |
| Flaming Gorge     | eP                   |       | 11·5              |      |       |       | 10855 | 97·7  |
| Winta Basin       | eP                   |       | 12·5              | eSKS | 28    | 50    | 10855 | 97·5  |
| Albuquerque       | eP                   |       | 21                | eSKS |       | 58    | 11055 | 99·5  |
| Kheis             | eP                   |       | 23                |      |       |       | 11210 | 100·9 |
| Lasa Center       | iB                   |       | 23·7              | iSP  | 18    | 34·1  | 11155 | 100·4 |
| Sverdlovsk        | eP                   |       | 28 <sup>D</sup>   |      |       |       | 11340 | 102·1 |
| Golden            | eP                   |       | 29·5              |      |       |       | 11190 | 100·7 |
| Mashad            | iP                   |       | 32                |      |       |       | 11385 | 102·5 |
| Resolute          | eP                   |       | 35 <sup>D</sup>   |      |       |       | 11490 | 103·4 |
| Vannovskaya       | eP                   |       | 39                |      |       |       | 11535 | 103·8 |
| Lubbock           | eP                   |       | 44                |      |       |       | 11465 | 103·2 |
| Kizyl_Arvat       | P                    |       | 47                |      |       |       | 11695 | 105·3 |
| Nat.Univ.Mexico   | eP                   |       | 50                | e    | 32    | 18    | 11635 | 104·7 |
| Wichita M.        | eP                   |       | 52·4              | eS   | 30    | 58    | 11765 | 105·9 |
| Chiraz            | P                    | 19    | 04                |      |       |       | 12010 | 108·1 |
| Kevo              | eP                   |       | 12                | e    | 31    | 24    | 12475 | 112·3 |
| Tabriz            | eIP                  |       | 20                | eSKS | 29    | 55    | 12585 | 113·1 |
| Sodankylä         | (PKP)                | 22    | 59                |      |       |       | 12645 | 113·8 |
| Vista Hermosa     | (PKP)                |       | 59                |      |       |       | 12635 | 113·8 |
| Kermanshah        | (PKP)                | 23    | 02                |      |       |       | 12535 | 112·8 |
| Mnovabad          | e(PKP <sub>1</sub> ) |       | 03                |      |       |       | 12530 | 112·8 |
| Presa Infernillo  | e(PP)                |       | 07                |      |       |       | 11340 | 102·1 |
| Gulu              | ePKP                 |       | 16                |      |       |       | 12325 | 115·4 |
| Kajaani           | ePKP                 |       | 17                |      |       |       | 12320 | 115·4 |
| Vista Hermosa     | ePP                  |       | 17                |      |       |       | 11870 | 106·8 |
| Kiruna            | ePKP                 |       | 17                |      |       |       | 12310 | 115·3 |
| Profisher         | PKP                  |       | 18                |      |       |       | 12335 | 116·4 |
| Cumberland Pl.    | PKP                  |       | 19·6              |      |       |       | 12345 | 116·5 |
| Bakouriani        | iPKP <sub>1</sub>    |       | 24                |      |       |       | 12750 | 114·7 |



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|                |                   |                 |        |          |       |       |
|----------------|-------------------|-----------------|--------|----------|-------|-------|
| Nurmljaerwi    | PKP               | 06 23 24        |        |          | 13180 | 118*6 |
| Uméa           | 1PKP              | 24*2            | 1SKS   | 06 30 15 | 13125 | 118*1 |
| Poti           | ePKP <sub>1</sub> | 26              |        |          |       |       |
| Morgan town    | PKP               | 27              |        |          | 13355 | 120*2 |
| Prétoria       | PKP               | 27*4            |        |          | 13365 | 120*6 |
| Black Rapids   | PKP               | 27*8            | i      | 24 50*5  | 13365 | 120*6 |
| Fuquene        | (PKP)             | 29              |        |          | 14245 | 128*2 |
| Ottawa         | PKP               | 29              |        |          | 13500 | 121*5 |
| Skalstugan     | 1PKP              | 29*7            |        |          | 13420 | 120*5 |
| Antofagasta    | ePKP              | (30)            | eSKS   | 30 39    | 13560 | 122*1 |
| Bulawayo       | ePKP              | 31              | e      | 25 16    | 13615 | 122*5 |
| Nairobi        | PKP               | 31              |        |          | 13435 | 120*8 |
| Uppsala        | PKP               | 32              | i      | 11*3     | 13520 | 121*7 |
| Brébeuf        | PKP               | 32*6            |        |          | 13645 | 122*8 |
| Kongsberg      | PKP               | 33              |        |          | 13645 | 124*6 |
| Uddeholm       | 1PKP              | 33              |        |          | 13665 | 123*0 |
| Karoi          | ePKP              | 33              | e      | 22       | 13670 | 123*0 |
| Istanbul UTI   | PKP               | 34              | e      | 26       | 13935 | 125*4 |
| Jérusalem      | PKP               | 34              |        |          | 13665 | 123*0 |
| Huancayo       | PKP               | 35              |        |          | 13610 | 122*5 |
| Berlin         | PKP               | 35*5            |        |          | 13855 | 124*7 |
| Weston         | PKP               | 36*7            |        |          | 13945 | 125*6 |
| Göteborg       | 1PKP              | 36*8            |        |          | 13925 | 125*3 |
| Broken Hill    | ePKP              | 37              | e      | 33       | 13885 | 125*0 |
| Lvov           | ePKP <sub>1</sub> | 37              | e(PP)  | 25       | 13865 | 124*8 |
| Arequipa       | PKP               | 37*4            |        |          | 13820 | 125*4 |
| Bucuresti      | PKP               | 38              | e      | 23 52    | 14010 | 126*1 |
| Palisades      | PKP               | 38*5            |        |          | 13800 | 124*2 |
| Ksara          | 1PKP              | 39              |        |          | 13565 | 122*1 |
| Helwan         | PKP               | 39*5            | i      | 25 34    | 14065 | 126*6 |
| Vamos          | ePKP              | 39*5            |        |          | 14560 | 131*0 |
| Krakow         | ePKP <sub>2</sub> | 40 <sup>C</sup> |        |          | 14100 | 126*9 |
| Oujgorod       | 1PKP <sub>1</sub> | 40 <sup>C</sup> |        |          | 14040 | 126*4 |
| Rhodes         | ePKP              | 40*3            |        |          | 14170 | 127*5 |
| Bogota         | PKP               | 40*5            | 1PP    | 46       | 14190 | 127*7 |
| Chinchina      | PKP               | 41              |        |          | 14035 | 126*3 |
| La Paz         | PKP               | 42              | PP     | 44       | 14145 | 127*3 |
| Penas          | PKP               | 42*5            | PP     | 46       | 14120 | 127*1 |
| Raciborz       | ePKP              | 43              |        |          | 14195 | 127*8 |
| Quito          | (PKP)             | 43              | SKS    | 30 33    | 13825 | 122*6 |
| Karlskrona     | 1PKP              | 43*3            |        |          | 13895 | 125*0 |
| Bratislava     | e1PKP             | 43*9            | e1     | 27 09*4  | 14390 | 129*5 |
| Srobarova      | e1PKP             | 45              | e1     | 24 05    | 14540 | 129*1 |
| Moxa           | PKP               | 45              |        |          | 14510 | 130*6 |
| Collm          | PKP               | 45              | ePP    | 25 53    | 14390 | 129*5 |
| Sofia          | ePKP              | 45*2            | e(SKS) | 30 23*6  | 14295 | 128*7 |
| Pruhonice      | PKP               | 46              |        |          | 14400 | 129*6 |
| Wien           | PKP               | 46              | 1sPKP  | 24 01    | 14420 | 129*8 |
| Wiedzica       | ePKP              | 47              |        |          | 14115 | 127*0 |
| Praha          | PKP               | 47              | e      | 25 58    | 14400 | 129*6 |
| Wien_Kobenzl   | PKP               | 47              | ePP    | 58*3     | 14430 | 129*8 |
| Kasperské Hory | PKP               | 47*2            |        |          | 14520 | 130*7 |
| Beograd        | ePKP              | 49*5            | eSKS   | 30 51*0  | 14385 | 129*5 |

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|                   |                    |                   |                     |          |       |       |
|-------------------|--------------------|-------------------|---------------------|----------|-------|-------|
| Padova            | ePKP <sub>1</sub>  | 06 23 50          | e                   | 06 26 00 | 14890 | 134'0 |
| Ljubljana         | ePKPKP             | 50                | ePP                 | 12       | 14685 | 132'2 |
| Windhoek          | PKP                | 50                |                     |          | 14510 | 130'6 |
| Fürstenfeldbruck  | PKP                | 50                |                     |          | 14729 | 132'5 |
| Athènes           | PKP                | 50                | e                   | 25 58    | 14490 | 130'4 |
| Köbenhavn         | PKP                | 50'1              |                     |          | 14065 | 126'6 |
| Erlangen          | ePKP <sub>1</sub>  | 50'2 <sup>D</sup> | e                   | 25 34'6  | 14605 | 131'4 |
| Bensberg          | PKP                | 50'3              | e                   | 24 15'5  | 14690 | 132'2 |
| Witteween         | PKP                | 52                | PP                  | 26 15    | 14560 | 131'0 |
| Stuttgart         | PKP                | 52'8              |                     |          | 14780 | 133'0 |
| Durham            | iPKP               | 53                |                     |          | 14670 | 132'0 |
| Trieste           | ePKP               | 53                |                     |          | 14755 | 132'8 |
| Welschbruch       | eiPKP <sub>1</sub> | 53'6              | iPP                 | 33'5     | 14905 | 134'1 |
| Basel             | PKP                | 55                |                     |          | 14965 | 134'7 |
| Champ du Feu      | ePKP <sub>1</sub>  | 55'6              |                     |          | 14910 | 134'2 |
| Strasbourg        | ePKP <sub>1</sub>  | 56                | ePP                 | 29       | 14870 | 133'8 |
| Roselend          | ePKP <sub>1</sub>  | 57                | ePP                 | 39       | 15165 | 136'5 |
| Haudompré         | ePKP <sub>1</sub>  | 57'2              |                     |          | 14985 | 134'9 |
| Sommée Lormes     | ePKP <sub>1</sub>  | 57'6              |                     |          | 15170 | 136'5 |
| Lanslevillard     | eiPKP <sub>1</sub> | 57'8              | ePP                 | 42       | 15180 | 136'6 |
| Garchy            | iPKP               | 57'8 <sup>C</sup> |                     |          | 15200 | 136'8 |
| Clermont          | ePKP <sub>1</sub>  | 58                | i                   | 24 52    | 15335 | 138'0 |
| St. Saulge        | ePKP <sub>1</sub>  | 58                |                     |          | 15200 | 136'8 |
| Bangui            | PKP                | 58'9              |                     |          | 15535 | 139'8 |
| Caracas           | eiPKP              | 59'2 <sup>D</sup> | eiSKP               | 27 28    | 15040 | 135'4 |
| Lorgues           | ePKP <sub>1</sub>  | 24 00'6           |                     |          | 15360 | 138'2 |
| Monteynard        | ePKP <sub>1</sub>  | 01                | ePP                 | 26 58    | 15275 | 137'5 |
| St. Paul eh Foret | ePKP               | 01'2              |                     |          | 15330 | 138'0 |
| l'Aquila          | ePKP               | 02                | ei                  | 27 20    | 15010 | 145'1 |
| La Mourre         | ePKP <sub>1</sub>  | 02'4              |                     |          | 15360 | 138'2 |
| Vouglans          | ePKP <sub>1</sub>  | 02'5              | eiPP                | 26 49'1  | 15155 | 136'4 |
| De Bilt           | e(PKP)             | 05                | eiPP                | 27 20    | 14685 | 132'2 |
| Trinidad          | PKP                | 06                |                     |          | 15645 | 140'8 |
| Roma              | eiPKP <sub>1</sub> | 06'2 <sup>D</sup> | eSKS                | 31 21    | 15095 | 135'9 |
| Besançon          | ePKP <sub>1</sub>  | 09                |                     |          | 15070 | 135'6 |
| Bagnères          | ePKP <sub>1</sub>  | 09                |                     |          | 15715 | 141'5 |
| Pavia             | e(PKP)             | 12                | ePKS                | 27 43    | 15065 | 135'6 |
| Toulx Ste Croix   | ePKP <sub>1</sub>  | 12'4              |                     |          | 15330 | 138'0 |
| Alicante          | PKP                | 15                |                     |          | 16165 | 145'5 |
| Toledo            | iPKP <sub>1</sub>  | 16                | iPKP <sub>2</sub>   | 24 28    | 16205 | 145'9 |
| Porto             | PKP                | 17                | iPKP                | 28       | 16255 | 146'5 |
| Almería           | iPKP <sub>1</sub>  | 21                | iPKP <sub>2</sub>   | 31       | 16405 | 147'6 |
| Averroes          | ePKP               | 22                |                     |          | 16985 | 152'9 |
| Tortosa           | i(PKP)             | 22                |                     |          | 15900 | 143'1 |
| Lisboa            | PKP <sub>1</sub>   | 22'5              | (PKP <sub>2</sub> ) | 24'3     | 16525 | 148'7 |
| Tamanrasset       | iPKP <sub>1</sub>  | 24 <sup>D</sup>   |                     |          | 16755 | 150'8 |
| Ponta Delgada     | PKP <sub>1</sub>   | 24                | PKP <sub>2</sub>    | 43'8     | 16840 | 151'5 |
| Ifrane            | PKP                | 25'5              |                     |          | 16845 | 151'6 |
| Rabat             | PKP                | 26                |                     |          | 16890 | 152'0 |
| Peldehue          | e(PP)              | 26                | eSKS                | 30 16    | 13000 | 117'0 |
| Moca              | PKP                | 32'6              |                     |          | 16600 | 149'4 |
| Lomé              | iPKP <sub>1</sub>  | 35                | ePP                 | 28 43    | 17465 | 157'2 |
| Lamto             | PKP                | 39'3              |                     |          | 18145 | 163'3 |
| M' Bour           | iPKP <sub>1</sub>  | 48                | iPP                 | 30 01    | 19255 | 173'3 |

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Inscrit à Istanbul Kand - Tacubaya - Krakow - Vrnicioala - Focznani - Iasy -  
Zagreb - Taipei - Hermanus - Messina - Uccle - Prétoria -  
Hyderabad - Manhattan - Tainan - Addis Ababa - Téhéran - Presa  
Benito J. - Lillehammer.

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Mer Méditerranée.

Vers 35°0 N ; 20°0 E ; H = 06h.52<sup>mn</sup>23<sup>s.</sup>; M. = 4.0(Athènes)

|           |       |            |     |            |       |     |
|-----------|-------|------------|-----|------------|-------|-----|
| Valsamata | ePn   | 06 53 12.9 | eSn | 06 53 50.1 | 340   | 3.1 |
| Vamos     | e(Pn) | 22.1       |     |            | (400) | 3.6 |
| Athènes   | ePn   | 31.3       |     |            | 480   | 4.3 |

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Au Nord de Severnaya Zemlya.

82°2 N ; 118°8 E ; h = 33<sup>km</sup> ; H = 06h.59<sup>mn</sup>50<sup>s.</sup>(CGS)

M. = 4.9(Uinta Basin - Wichita M.); 4.8(Eureka); 4.6(Kajaani - Blue M.);  
4.5(CGS); 4.4(College - Golden - Tonto Forest); 3.9(Dugway)

|               |    |                      |      |            |      |      |
|---------------|----|----------------------|------|------------|------|------|
| Mould Bay     | eP | 07 04 12             |      |            | 2120 | 19.1 |
| Barrow        | eP | 18                   |      |            | 2180 | 19.6 |
| Resolute      | eP | 46.1 <sup>C</sup>    |      |            | 2480 | 22.3 |
| Sodankylä     | eP | 58                   |      |            | 2700 | 24.3 |
| Kevo          | e  | 05 01                |      |            | 2445 | 22.0 |
| College       | eP | 26                   |      |            | 2980 | 26.8 |
| Oulu          | eP | 28                   |      |            |      |      |
| Gilmore Creek | eP | 28.5                 |      |            | 2980 | 26.8 |
| Kajaani       | iP | 31.6                 |      |            | 3035 | 27.3 |
| Coppermine    | eP | 34.5 <sup>D</sup>    |      |            | 3065 | 27.6 |
| Durham        | iP | 07 37                |      |            |      |      |
| Moxa          | eP | 43                   |      |            | 4710 | 42.4 |
| Niedzica      | eP | 43.8                 |      |            |      |      |
| Newport       | eP | 08 17                |      |            | 5190 | 46.7 |
| Hungry Horse  | eP | 17.5                 |      |            | 5210 | 46.9 |
| Blue M.       | eP | 43.4                 |      |            | 5555 | 50.0 |
| Mineral       | eP | 09 12.3 <sup>C</sup> |      |            |      |      |
| Flaming Gorge | eP | 17                   |      |            | 6080 | 54.7 |
| Dugway        | eP | 20.4                 |      |            | 6120 | 55.1 |
| Uinta Basin   | eP | 21.5                 |      |            | 6145 | 66.3 |
| Eureka        | iP | 23.8                 |      |            | 6165 | 55.5 |
| Golden        | eP | 28.7                 |      |            | 6255 | 56.3 |
| Jamestown     | eP | 29.9 <sup>C</sup>    | e    | 07 09 37.5 | 6280 | 56.5 |
| San Luis Dam  | eP | 37.1                 |      |            | 6365 | 57.3 |
| Priest        | eP | 44.2 <sup>C</sup>    |      |            | 6480 | 58.3 |
| Pasadena      | eP | 58                   |      |            | 6720 | 60.5 |
| Tonto Forest  | eP | 10 02.5              |      |            | 6790 | 61.1 |
| Wichita M.    | eP | 06.1                 | ePcP | 10 38.3    | 6865 | 61.8 |

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Witwatersrand.

26°2 S ; 27°7 E ; H = 07h.14<sup>mn</sup>59s. (Bulawayo)

M. = 5.1 (Bulawayo)

|             |       |          |     |          |
|-------------|-------|----------|-----|----------|
| Bulawayo    | ePn   | 07 16 28 | 1Sg | 07 18 04 |
| Karoi       | ePn   | 17 15    | eSn | 53       |
| Broken Hill | eSgSg | 21 02    |     |          |

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Données insuffisantes.

|            |    |           |      |          |
|------------|----|-----------|------|----------|
| Shillong   | iP | 08 28 57C |      |          |
| Chittagong | eP | 29 40     | e(S) | 08 30 00 |
| Chatra     | iP | 59C       | e    | 31 35    |
| Bokaro     | e  | 30 23     |      |          |
| Dehra Dun  | e  | 31 50     |      |          |
| New Dehli  | iP | 59C       |      |          |
| Quetta     | eP | 33 32.2   |      |          |

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Iles Salomon

9°3 S ; 158°6 E ; h = 33<sup>km</sup> ; H = 08h.37<sup>mn</sup>14s. (CGS)

M. = 5.4 (Eureka); 5.0 (College - Blue M.); 4.9 (CGS); 4.1 (Tonto Forest)

|               |      |             |      |          |       |       |
|---------------|------|-------------|------|----------|-------|-------|
| Honiara       | iP   | 08 37 35.2C | iS   | 08 37 56 | 145   | 1.3   |
| Rabaul        | e(P) | 39 23       | e(S) | 41 18    | 910   | 8.2   |
| Port Moresby  | eP   | 40 03       |      |          | 1255  | 11.3  |
| Shillong      | iP   | 48 44.5     |      |          | 8165  | 73.5  |
| South Pole    | eP   | 49 25.3     |      |          | 8965  | 80.7  |
| College       | eP   | 41.1        |      |          | 9335  | 84.0  |
| Gilmord Creek | eP   | 41.5        |      |          | 9355  | 84.2  |
| Black Rapids  | eP   | 42.1        |      |          | 9320  | 83.9  |
| Pedro Dome    | eP   | 42.2        |      |          | 9355  | 84.2  |
| China Lake    | P    | 50 14       |      |          | 10045 | 90.4  |
| Blue M.       | eP   | 22.8        |      |          | 10265 | 92.4  |
| Eureka        | iP   | 24.2        |      |          | 10265 | 92.4  |
| Tonto Forest  | eP   | 45.8        |      |          | 10590 | 95.3  |
| La Paz        | ePKP | 56 23       |      |          |       |       |
| Tamanrasset   | PKP  | 57 09       |      |          | 16765 | 150.9 |

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Données insuffisantes.

Sodankylä iP 08 37 54.8

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|             |    |          |  |
|-------------|----|----------|--|
| Nurmijaerwi | eP | 08 37 58 |  |
| Kiruna      | iP | 38 11.8  |  |
| Uméa        | iP | 12.1     |  |
| Uppsala     | iP | 20.9     |  |
| Uddeholm    | iP | 34.2     |  |

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Iles Salomon

9°7 S ; 158°6 E ; h = 23<sup>km</sup> ; H = 09h.00<sup>m</sup>00.5<sup>s</sup>.(CGS)

M. = 5.8(Rabaul); 5.2(College); 5.1(CGS); 5.0(Eureka); 4.8(Uinta Basin);  
4.7(Blue M.)

|                 |     |                       |      |          |       |       |
|-----------------|-----|-----------------------|------|----------|-------|-------|
| Honizra         | iP  | 09 00 24 <sup>C</sup> | iS   | 09 00 50 | 155   | 1'4   |
| Rabaul          | eP  | 02 02.5 <sup>D</sup>  | e(S) | 04 10    | 935   | 8'4   |
| Keravat         | eP  | 05.5                  | iS   | 03 56.5  | 935   | 8'4   |
| Port Moresby    | eP  | 49                    |      |          | 1255  | 11'3  |
| Charters Towers | iP  | 03 42                 |      |          | 1755  | 15'8  |
| Canberra        | eP  | 05 55                 |      |          | 3000  | 27'0  |
| Adélaïde        | eP  | 06 19                 |      |          | 3455  | 31'1  |
| Kalgoorlie      | iP  | 07 38.6 <sup>C</sup>  |      |          |       |       |
| Byrd            | eP  | 12 08.9               |      |          | 8790  | 79'1  |
| South Pole      | eP  | 13.5                  |      |          | 8935  | 80'4  |
| College         | eP  | 29                    |      |          | 9385  | 84'3  |
| Gilmore Creek   | eP  | 30.5                  |      |          | 9390  | 84'5  |
| Berkeley        | eP  | 54.6                  |      |          | 9710  | 87'4  |
| Jamestown       | eP  | 54.9 <sup>D</sup>     | e    | 13 03.2  | 9865  | 88'8  |
| China Lake      | P   | 13 04                 | e    | 11       | 10065 | 90'6  |
| Blue M.         | eP  | 12                    |      |          | 10290 | 92'6  |
| Eureka          | iP  | 13                    |      |          | 10290 | 92'6  |
| Uinta Basin     | eP  | 42.4                  |      |          | 10845 | 97'6  |
| Lasa Center     | eP  | 54.4                  |      |          | 10845 | 97'6  |
| La Paz          | PKP | 19 14.2               |      |          |       |       |
| Penas           | PKP | 15.3                  |      |          | 14090 | 126'8 |
| Bangui          | PKP | 26                    |      |          | 15555 | 140'0 |
| Tamanrasset     | PKP | 59                    | i    | 19 30    | 16790 | 151'1 |

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Södermanland (Suède)

58°9 N ; 17°4 E ; H = 09h.35<sup>m</sup>28<sup>s</sup>.(Uppsala)

|            |     |            |                |
|------------|-----|------------|----------------|
| Uppsala    | iSg | 09 35 58.2 |                |
| Uddeholm   | iPg | 36 12.2    | iSg 09 36 41.2 |
| Skalstugan | eSg | 38 20      |                |

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Utah

39° 3' N ; 112° 1' W ; h = 33<sup>km</sup> ; H = 11h.19<sup>mn</sup>28<sup>s</sup>. (CGS)

|               |    |            |     |            |     |     |
|---------------|----|------------|-----|------------|-----|-----|
| Dugway        | eP | 11 19 45.2 | eL  | 11 20 00.2 | 110 | 1.0 |
| Uinta Basin   | eP | 20 03.3    | eLG | 32.2       | 245 | 2.2 |
| Glen Canyon   | eP | 06.5       | eLG | 35         | 265 | 2.4 |
| Flaming Gorge | eP | 10.4       |     |            | 290 | 2.6 |
| Dureka        | eP | 14.5       |     |            | 335 | 3.0 |
| Tonto Forest  | eP | 58.3       | eLG | 21 58.1    | 565 | 5.1 |

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Maroc. (Explosion de 12 Tonnes)

32° 52' N ; 6° 38' W. ; H = 11h.39<sup>mn</sup>20<sup>s</sup>1. (Rabat)

|          |      |          |     |          |     |     |
|----------|------|----------|-----|----------|-----|-----|
| Averroes | iPb  | 11 39 36 | iSg | 11 39 50 | 85  | 0.8 |
| Rabat Z. | ePb  | 40       | eSg | 56       | 120 | 1.1 |
| Ifrane   | eiPb | 45.5     | MSg | 40 08    | 160 | 1.4 |

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Sicile.

Réplique : M. = 3.80 (Roma) ; H = 12h.20<sup>mn</sup>(40)s. (ING)

|                   |      |              |     |            |  |  |
|-------------------|------|--------------|-----|------------|--|--|
| Messina ING       | ePn  | 12 21 (17.8) | e   | 12 21 51.4 |  |  |
| Messina           | e    | 21.6         | iSn | 46.5       |  |  |
| Reggio_Calabria   | e    | (40.7)       | i   | 22 11.7    |  |  |
| La Mourre         | eiP  | 22 33.9      |     |            |  |  |
| St. Paul en Foret | eiP  | 35.3         |     |            |  |  |
| Roma              | eS   | 37           | e   | 23 09.3    |  |  |
| Lorgues           | eiP  | 37.5         |     |            |  |  |
| Isola             | ePP  | 41           |     |            |  |  |
| Tamanrasset       | e(P) | 24 41        |     |            |  |  |

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Californie Centrale

37° 0' N ; 121° 2' W ; h = 2<sup>km</sup> ; H = 13h.29<sup>mn</sup>17.9s. (CGS)  
37° 05.7' N ; 121° 14.0' W ; (Berkeley)

M. = 2.8 (Berkeley)

|              |    |             |    |            |    |     |
|--------------|----|-------------|----|------------|----|-----|
| San Luis Dam | iP | 13 29 19.1C | iS | 13 29 19.8 | 10 | 0.1 |
| Holy Cross   | iP | 25.8        |    |            | 45 | 0.4 |
| Mt. Hamilton | P  | 26.3D       |    |            | 55 | 0.5 |
| Stone Canyon | iP | 27          |    |            | 45 | 0.4 |

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|              |    |       |                   |    |       |      |     |     |
|--------------|----|-------|-------------------|----|-------|------|-----|-----|
| Castle Rock  | iP | 13 29 | 31.8              | iS | 13 29 | 44.5 | 90  | 0.8 |
| Berkeley     | P  |       | 35.6              | S  |       | 57   | 135 | 1.2 |
| Mount Diablo | iP |       | 37                | iS |       | 55   | 110 | 1.0 |
| Jamestown    | P  |       | 37.7 <sup>C</sup> |    |       |      | 120 | 1.1 |
| Priest       | P  |       | 38.2 <sup>C</sup> | S  |       | 56   | 110 | 1.0 |
| Kentfield    | eP |       | 42.4              |    |       |      | 155 | 1.4 |
| Olema        | iP |       | 47.1              | iS | 30 18 |      | 180 | 1.6 |
| Oroville     | eP | 30    | 00.5              | i  |       | 31.3 | 290 | 2.6 |
| Mineral      | P  |       | 14.3 <sup>C</sup> |    |       |      | 365 | 3.3 |
| Eureka       | eP |       | 40.2              |    |       |      | 535 | 4.8 |

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Tchécoslovaquie

49° 8' N ; 13° 1' E ; H = 13<sup>h</sup>.53. mm. 31<sup>sec.</sup> (BCIS)

|                |     |       |                   |     |       |      |  |  |
|----------------|-----|-------|-------------------|-----|-------|------|--|--|
| Kasperské Hory | iPg | 13 58 | 45                |     |       |      |  |  |
| Pruhonice      | iPg |       | 48.9              | iSg | 13 59 | 01.4 |  |  |
| Erlangen       | iPg |       | 54.9 <sup>D</sup> | eSg |       | 11   |  |  |
| Moxa           | iPg |       | 55.5              | iSg |       | 13   |  |  |
| Praha          | e   |       | 59 14             |     |       |      |  |  |

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Java.

7° 2' S ; 106° 6' E ; h = 142<sup>km</sup> ; H = 14<sup>h</sup>.12<sup>mm</sup>02.1<sup>s.</sup> (CGS)

M. = 6.3(Bangui) ; 5.8(Adélaïde - South Pole) ; 5.6(CGS - Port Moresby - Nairobi) ; 5.5(Windhoek) ; 5.3(Prétoïria) ; 5.0(Kajaani).

|                 |    |       |                   |    |       |         |      |      |
|-----------------|----|-------|-------------------|----|-------|---------|------|------|
| Lembang         | iP | 14 12 | 27                |    |       |         | 110  | 1.0  |
| Meekatharra     | iP |       | 42.1 <sup>D</sup> |    |       |         |      |      |
| Darwin          | eP | 16 50 |                   | eS | 14 20 | 44      | 2500 | 22.5 |
| Mundaring       | iP | 17 08 | .1                |    |       |         | 2855 | 25.7 |
| Kalgoorlie      | iP |       | 24.2 <sup>C</sup> |    |       |         |      |      |
| Warramunga      | eP |       | 40                | e  |       | 22 13.5 |      |      |
| Port Moresby    | eP | 19 09 | .9                |    |       |         | 4245 | 38.2 |
| Charters Towers | iP |       | 14                | i  |       | 28 00   | 4300 | 38.7 |
| Adélaïde        | iP |       | 16.6              |    |       |         | 4345 | 39.1 |
| Toolangi        | iP | 20 06 | .5                | i  | 21 44 |         | 5010 | 45.1 |
| Canberra        | iP |       | 16.4 <sup>C</sup> | e  |       | 27 54   | 5155 | 46.4 |
| Brisbane        | iP |       | 17                | i  |       | 30 21   | 5155 | 46.4 |
| Oishiyama       | eP |       | 30                |    |       |         | 5365 | 48.3 |
| Matsushiro      | eP |       | 55                |    |       |         |      |      |
| Warsak          | P  | 21 01 |                   |    |       |         |      |      |
| Quetta          | eP |       | 17.5 <sup>D</sup> |    |       |         | 6055 | 54.5 |
| Tananarive      | iP |       | 55 <sup>C</sup>   |    |       |         |      |      |
| Chiraz          | P  | 22 26 | .8                |    |       |         | 7210 | 64.9 |
| Nairobi         | iP | 23 12 | <sup>C</sup>      | e  | 44 38 |         | 7965 | 71.8 |
| Changalane      | eP |       | 25                | e  |       | 23 28   | 8290 | 74.6 |
| Karoi           | iP |       | 42 <sup>C</sup>   |    |       |         |      |      |
| Bilawayo        | iP |       | 47 <sup>C</sup>   |    |       |         |      |      |

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|                   |      |       |                   |       |          |       |       |
|-------------------|------|-------|-------------------|-------|----------|-------|-------|
| Prétoria          | 1P   |       |                   |       |          |       |       |
| Broken Hill       | 1P   | 14 23 | 48·1              |       |          | 8690  | 78·2  |
| South Pole        | 1P   |       | 49 <sup>C</sup>   |       |          |       |       |
| Windhoek          | 1P   | 24    | 11·4              |       |          | 9210  | 82·9  |
| Bangui            | 1P   |       | 41·9              |       |          | 9845  | 88·6  |
| Kajaani           | 1P   |       | 49·3 <sup>D</sup> |       |          | 10055 | 90·5  |
| Oulu              | eP   |       | 57·8              |       |          | 10265 | 92·4  |
| Coppermine        | PKP  | 25    | 02                |       |          |       |       |
| Lamto             | PKP  | 30    | 21·4              |       |          | 12535 | 112·8 |
| Edmonton          | PKP  |       | 25·4              |       |          | 12880 | 114·1 |
| Newport           | PKP  |       | 43                |       |          | 13655 | 122·9 |
| Nordman           | PKP  |       | 45                |       |          | 13755 | 123·8 |
| Mineral           | PKP  |       | 45                |       |          | 13745 | 123·7 |
| Blue M.           | PKP  |       | 46·1              |       |          |       |       |
| Oroville          | PKP  |       | 47·2              |       |          | 13935 | 125·4 |
| Hungry Horse      | PKP  |       | 47·3              |       |          | 13865 | 124·8 |
| Berkeley          | PKP  |       | 48·2              |       |          | 13935 | 125·4 |
| Mt. Hamilton      | PKP  |       | 48·6 <sup>C</sup> |       |          | 13880 | 124·9 |
| Jamestown         | PKP  |       | 49·5 <sup>C</sup> |       |          | 13945 | 125·5 |
| San Luis Dam      | PKP  |       | 50·0 <sup>D</sup> | e     | 14 30 56 | 14020 | 126·2 |
| Priest            | PKP  |       | 50·4              |       |          | 14000 | 126·0 |
| Eureka            | PKP  |       | 52·3 <sup>D</sup> |       |          | 14080 | 126·7 |
| Pasadena          | PKP  |       | 56·2              |       |          | 14310 | 128·8 |
| Dugway            | PKP  |       | 57                | iSKP  | 34 05    | 14365 | 129·3 |
| Flaming Gorge     | PKP  |       | 58·5              |       |          | 14510 | 130·6 |
| Uinta Basin       | PKP  | 31    | 01·5              |       |          | 14710 | 132·4 |
| Tonto Forest      | PKP  |       | 02·3              |       |          | 14735 | 132·6 |
| Golden            | PKP  |       | 04·4              | eSKP1 |          | 16·0  | 14945 |
| Tucson            | PKP  |       | 08                | e     |          | 26·5  | 15065 |
| Albuquerque       | PKP  |       | 08·5              |       |          | 15080 | 135·7 |
| Wichita M.        | PKP  |       | 12·5              |       |          | 15290 | 137·6 |
| Tulsa             | PKP  |       | 17                |       |          | 15880 | 142·9 |
| Morgantown        | PKP  |       | 21                |       |          | 15965 | 143·7 |
| Presa Infiernillo | ePKP |       | 30                |       |          | 16319 | 146·8 |
| Cumberland Pl.    | PKP  |       | 30·5              |       |          |       |       |
| Oak Ridge         | PKP  |       | 30·8              |       |          | 16545 | 148·9 |
| Antofagasta       | iPKP |       | 31·4              |       |          | 16555 | 149·0 |
| Vista Hermosa     | PKP  |       | 36·3 <sup>C</sup> | e     | 31 41·3  |       |       |
| Presa Benito J.   | ePKP |       | 37                |       |          | 17045 | 153·4 |
| La Paz            | PKP  |       | 40·8              |       |          |       |       |
| Penas             | PKP  |       | 41                | e     | 36 12    | 17355 | 156·2 |
| Huancayo          | PKP  |       | 43·3              |       |          | 17390 | 156·5 |
| San Juan          | PKP  |       | 49·8              |       |          | 17835 | 160·5 |
| Arequipa          | PKP2 | 32    | 12·2              |       |          | 18665 | 168·0 |
|                   |      |       |                   |       |          | 17390 | 156·5 |

Inscrit à Roma.



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Au large de la cote Sud du Chili.

42° 6 S ; 75° 2 W ; h = 22 km ; H = 14<sup>h</sup> 39<sup>m</sup> 37.8 s. (CGS)  
 42° 0 S ; 73° 5 W ; H = 14<sup>h</sup> 39<sup>m</sup> 41 s. (URSS)

M. = 6.5 (Bangui); 6.0 (South Pole); 5.9 (Roma); 5.7 (La Palma);  
 5.6 (Wichita M. - Albuquerque - Tonto Forest); 5.5 (CGS - Windhoek);  
 5.4 (Prétoria); 5.3 (Penas); 5.2 (Cumberland Pl. - Dugway - Eureka);  
 5.1 (Uinta Basin); 4.6 (Blue M.); 4.7 - 5.1 (Berkeley).

|                   |    |                      |      |            |      |      |
|-------------------|----|----------------------|------|------------|------|------|
| Santiago          | eP | 14 41 57.5           |      |            | 1090 | 9.8  |
| Peldehue          | eP | 42 00.7              | eS   | 14 43 51   | 1120 | 10.1 |
| La Plata          | iP | 43 16                | e(S) | 46 28.4    | 1720 | 15.5 |
| Antofagasta       | eP | 44 01.9 <sup>D</sup> | eS   | 47 38      | 2140 | 19.3 |
| Arequipa          | iP | 45 13.6              |      |            | 2910 | 26.2 |
| La Paz            | eP | 17                   | eS   | 50 00      | 2965 | 26.7 |
| Penas             | P  | 20 <sup>D</sup>      | e(S) | 22         | 2990 | 26.9 |
| Huancayo          | iP | 52.9                 |      |            | 3380 | 30.4 |
| Byrd              | iP | 47 19.6              | e    | 47 29      | 4545 | 40.9 |
| Quito             | P  | 33.5                 |      |            | 4700 | 42.3 |
| Bogota            | iP | 46 11.               | 1S   | 55 07      | 5220 | 47.0 |
| South Pole        | iP | 13.6                 |      |            | 5290 | 47.6 |
| Novo-Lazarevskaya | eP | 28.5                 |      |            | 5505 | 49.5 |
| Caracas           | iP | 56 <sup>D</sup>      |      |            | 5930 | 53.4 |
| Scott Base        | eP | 49 02                | S    | 56 47      | 6020 | 54.2 |
| Trinidad          | iP | 05.7                 |      |            | 6055 | 54.5 |
| La Palma          | iP | 30.4 <sup>D</sup>    |      |            | 6445 | 58.0 |
| San Juan          | eP | 49                   |      |            | 6780 | 61.0 |
| Presa Benito J.   | eP | 55.3                 |      |            | 6845 | 61.6 |
| Vista Hermosa     | iP | 50 02                |      |            | 6965 | 62.7 |
| Presa Infiernillo | eP | 19                   |      |            | 7265 | 65.4 |
| Papeete (Orston)  | iP | 30.1                 |      |            | 7435 | 66.9 |
| Mirny             | eP | 51 03                | eS   | 15 00 09   | 7865 | 70.8 |
| Windhoek          | iP | 30                   |      |            | 8520 | 76.7 |
| Cumberland Pl.    | eP | 38.7                 |      |            | 8710 | 78.4 |
| M' Bour           | iP | 37                   | 1S   | 01 34      | 8650 | 77.9 |
| Oak Ridge         | iP | 38                   |      |            | 8735 | 78.6 |
| Kimberley         | iP | 42                   |      |            | 8650 | 77.9 |
| Lubbock           | eP | 44                   |      |            | 8845 | 79.6 |
| Wichita M.        | eP | 44.7                 | ePP  | 14 54 54   | 8865 | 79.8 |
| Lamto             | P  | 47.6                 |      |            | 8880 | 79.9 |
| Tulsa             | iP | 48 <sup>D</sup>      |      |            | 8920 | 80.3 |
| Tucson            | eP | 54.8                 |      |            | 9045 | 81.4 |
| Morgan town       | iP | 57.2 <sup>C</sup>    |      |            | 9100 | 81.9 |
| Prétoria          | iP | 58.6                 |      |            | 9135 | 82.2 |
| Albuquerque       | eP | 59                   | e    | 15 02 24   | 9145 | 82.3 |
| Tonto Forest      | eP | 52 05                | eS   | 30         | 9255 | 83.3 |
| Manhattan         | eP | 06                   |      |            | 9300 | 83.7 |
| Changalane        | eP | 10.6                 | i    | 14 52 17.1 | 9380 | 84.4 |
| Glen Canyon       | eP | 17.5                 |      |            | 9535 | 85.8 |
| Pasadena          | iP | 18                   | i(S) | 15 03 06   | 9545 | 85.9 |

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|                |                   |       |                   |        |          |       |       |
|----------------|-------------------|-------|-------------------|--------|----------|-------|-------|
| Boulder City   | eP                | 14 52 | 18.4              |        |          | 9585  | 86.1  |
| Bulawayo       | iP                |       | 20 <sup>D</sup>   | eSKS   | 15 03 05 | 9585  | 86.3  |
| Uinta Basin    | eP                |       | 28.4              | eS     | 12       | 9800  | 88.2  |
| Flaming Gorge  | eP                |       | 30                |        |          | 9855  | 88.7  |
| Priest         | eP                |       | 31.6 <sup>D</sup> | e      | 14 52 49 | 9850  | 88.7  |
| Dugway         | eP                |       | 32.8              |        |          | 9900  | 89.1  |
| Karoi          | eP                |       | 35                | iDP    | 42       | 9915  | 89.2  |
| Eureka         | iP                |       | 36                |        |          | 9955  | 89.6  |
| San Luis Dam   | eP                |       | 36.9              |        |          | 9965  | 89.7  |
| Jamestown      | eP                |       | 37.6 <sup>C</sup> |        |          | 10010 | 90.1  |
| Mt. Hamilton   | eP                |       | 37.7 <sup>D</sup> |        |          | 10010 | 90.1  |
| Broken Hill    | eP                |       | 39                | ipP    | 46       | 10010 | 90.1  |
| Berkeley       | eP                |       | 39.2 <sup>D</sup> |        |          | 10090 | 90.8  |
| Toolangi       | eP                |       | 46                | e      | 55       | 10220 | 92.0  |
| Oroville       | iP                |       | 46                |        |          | 10210 | 91.9  |
| Canberra       | eP                |       | 50                | e      | 15 03 53 | 10290 | 92.6  |
| Blue M.        | eP                |       | 58.7              |        |          | 10535 | 93.8  |
| Bangui         | iP                | 53    | 04.7              |        |          | 10635 | 95.7  |
| Tamanrasset    | eP                |       | 26                | e      | 14 57 19 | 10960 | 98.6  |
| Resolute       | PKP               | 58    | 21                |        |          | 13080 | 117.7 |
| Kasperske Hory | ePKP              |       | 26                |        |          | 13320 | 119.0 |
| Moxa           | PKP               |       | 26.5              |        |          | 13290 | 119.6 |
| College        | PKP               |       | 28                |        |          | 13445 | 121.0 |
| Mould Bay      | PKP               |       | 29.5              |        |          | 13535 | 121.8 |
| Niedzica       | ePKP              |       | 35                |        |          | 13760 | 123.9 |
| Uddeholm       | iPKP              |       | 35.6              |        |          | 13905 | 125.2 |
| Oujgorod       | ePKP <sub>1</sub> |       | 38                |        |          | 13850 | 124.7 |
| Oulu           | ePKP              |       | 42                |        |          | 14685 | 132.2 |
| Nurmi jaerwi   | PKP               |       | 47                |        |          | 14490 | 130.4 |
| Ki runa        | iPKP              |       | 47.2              |        |          | 14515 | 130.6 |
| Sodankylä      | PKP               |       | 51                |        |          | 14765 | 132.9 |
| Bakouriani     | iPKP <sub>1</sub> |       | 54.4              |        |          | 15050 | 135.5 |
| Moskva         | ePKP <sub>1</sub> |       | 56                |        |          | 15100 | 135.9 |
| Chiraz         | PKP               |       | 59.2              |        |          | 15210 | 136.9 |
| Tabriz         | ePKP              | 59    | 00                | ei(PP) | 15 01 39 | 15105 | 136.0 |
| Kajaani        | PKP               |       | 01                |        |          | 14745 | 132.7 |
| Kizyl Arvat    | ePKP <sub>1</sub> |       | 10                |        |          | 15950 | 143.6 |
| Bombay         | ePKP              |       | 10                |        |          | 16010 | 144.1 |
| Madras         | ePKP              |       | 11                |        |          | 15955 | 143.6 |
| Poona          | ePKP              |       | 12                |        |          | 16055 | 144.5 |
| Addis Ababa    | ePP               |       | 12                |        |          | 12630 | 113.7 |
| Mashad         | iPKP              |       | 14                |        |          | 16095 | 144.9 |
| Vannovskaya    | PKP <sub>1</sub>  |       | 14                |        |          | 16045 | 144.4 |
| Tiksi          | ePKP <sub>1</sub> |       | 16                |        |          | 16510 | 148.6 |
| Magadan        | ePKP <sub>1</sub> |       | 20                |        |          | 16370 | 147.3 |
| Quetta         | PKP               |       | 20.2              | e      | 09 50.6  | 16380 | 147.4 |
| Baguio         | PKP               |       | 22                |        |          | 16735 | 150.6 |
| Port Blair     | iPKP              |       | 23                |        |          | 16389 | 147.4 |
| Sverdlovsk     | iPKP <sub>1</sub> |       | 23 <sup>D</sup>   |        |          | 16525 | 148.7 |
| Douchambé      | ePKP <sub>1</sub> |       | 25                |        |          | 16940 | 152.5 |
| Samarkand      | PKP <sub>1</sub>  |       | 25                |        |          | 16835 | 151.5 |
| New Dehli      | ePKP              |       | 28                |        |          | 17085 | 153.8 |

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|                   |                   |                 |              |       |       |
|-------------------|-------------------|-----------------|--------------|-------|-------|
| Warsak            | PKP               | 14 59 28        |              | 16960 | 152'6 |
| Garm              | ePKP <sub>1</sub> | 29              |              | 17065 | 153'8 |
| Dehra Dun         | iPKP              | 32 <sup>C</sup> |              | 17260 | 155'6 |
| Youjno_Sakhalinsk | ePKP <sub>1</sub> | 32              |              | 16990 | 152'9 |
| Kiyosumi          | PKP               | 33'7            |              | 16845 | 151'6 |
| Bodajbo           | PKP <sub>1</sub>  | 34              |              | 18180 | 163'6 |
| Frounze           | ePKP <sub>1</sub> | 34              |              | 17540 | 157'9 |
| Tachkent          | ePKP <sub>1</sub> | 34 <sup>C</sup> |              | 17075 | 153'7 |
| Dodaira           | PKP               | 34'7            | e 14 59 44'6 | 16965 | 152'7 |
| Mt. Tsukuba       | PKP               | 34'9            |              | 16900 | 152'1 |
| Matsushiro        | PKP               | 35              |              | 17075 | 153'7 |
| Hong Kong         | PKP               | 35              |              | 17590 | 158'3 |
| Talgar            | iPKP <sub>1</sub> | 36              |              | 17770 | 159'9 |
| Shillong          | PKP               | 36'2            |              | 17780 | 160'0 |
| Irkoutsk          | ePKP <sub>1</sub> | 42              |              | 18925 | 170'5 |
| Afiamalū          | eS                | 15 02'9-        |              | 9495  | 85'5  |

Inscrit à Istanbul UTI - Nat.Univ.Mexico - Meekathatra - Toledo -  
Strasbourg - Uccle - Clermont - Roma - l'Aquila - Pavia.

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Au Sud de la Province de Sofala (Mozambique)

M. = 21° 1' S ; 33° 2' E ; H = 15<sup>h</sup>.26<sup>mm</sup>44<sup>s</sup>. (Bulawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Bulawayo    | eP  | 15 27 54 | eS  | 15 28 59 |
| Karoi       | ePn | 28 04    | eSn | 29 08    |
| Broken Hill | ePn | 41       | eSn | 30 10    |
| Prétoria    | i   | 30 00    |     |          |

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Données insuffisantes.

|                |      |                   |   |            |
|----------------|------|-------------------|---|------------|
| Kasperské Hory | eiP  | 16 17 05'5        | i | 16 17 18'5 |
| Collm          | eP   | 09                |   |            |
| Pruhonice      | e    | 12                |   |            |
| Moxa           | eP   | 14                |   |            |
| Erlangen       | e(P) | 19'7 <sup>D</sup> |   |            |

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Californie. = H = 17<sup>h</sup>.08<sup>mm</sup>2

|              |    |                         |   |          |
|--------------|----|-------------------------|---|----------|
| Jamestown    | eP | 17 09 22'2 <sup>D</sup> | S | 17 10 19 |
| Priest       | eP | 27'1 <sup>C</sup>       | e | 32       |
| Mt. Hamilton | eP | 35'3 <sup>C</sup>       | e | 40       |
| Mineral      | eP | 47'8 <sup>C</sup>       | i | 11 18    |
| Berkeley     | eP | 52'4 <sup>D</sup>       |   |          |

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Explosion nucléaire souterraine au Nevada

38°8 N ; 116°3 W ; H = 18<sup>h</sup>.14<sup>m</sup>59.4<sup>s</sup>. (BCIS)  
H = 18<sup>h</sup>.15<sup>m</sup>00<sup>s</sup>. (Uppsala)

M. = 6.4 (Moxa) ; 5.6 (Uppsala - Kiruna)

|                   |       |                         |      |          |      |      |
|-------------------|-------|-------------------------|------|----------|------|------|
| Priest            | eP    | 18 16 07.8 <sup>C</sup> |      |          | 490  | 4.4  |
| Mt. Hamilton      | eP    | 10.0 <sup>C</sup>       |      |          | 495  | 4.5  |
| Mineral           | eP    | 10.8 <sup>C</sup>       |      |          | 485  | 4.4  |
| Berkeley          | eP    | 13.8 <sup>C</sup>       |      |          | 530  | 4.8  |
| Arcata            | eP    | 37.4 <sup>C</sup>       |      |          | 705  | 6.3  |
| Guadalajara       | 1P    | 19 48                   |      |          | 2360 | 21.3 |
| Léon              | 1P    | 56                      |      |          | 2410 | 21.7 |
| Manzanilla        | eP    | 20 02                   |      |          | 2475 | 22.3 |
| Presa Infiernillo | 1P    | 14 <sup>C</sup>         | 1    | 18 22 43 | 2870 | 24.0 |
| Nat.Univ.Mexico   | 1P    | 20                      | i(S) | 24 55    | 2715 | 24.4 |
| Tacubaya          | eP    | 22                      | e(S) | 25 03    | 2710 | 24.4 |
| Vera Cruz         | eP    | 42                      |      |          | 2915 | 26.2 |
| Vista Hermosa     | 1P    | 50                      |      |          |      |      |
| Presa Benito J.   | 1P    | 21 00.9 <sup>D</sup>    |      |          | 3205 | 28.8 |
| Merida            | i(Pn) | 15                      |      |          |      |      |
| Copenhavn         | 1P    | 23 16.6                 |      |          | 4965 | 44.7 |
| Caracas           | 1P    | 24 12.2 <sup>C</sup>    | 1S   | 31 44    | 5795 | 52.2 |
| Station Nord      | 1P    | 21.5                    |      |          | 5915 | 53.2 |
| Kap. Tobin        | 1P    | 36.6                    |      |          | 6155 | 55.4 |
| Akureyri          | 1P    | 58.1                    |      |          | 6500 | 58.5 |
| Kingsbay          | 1P    | 25 02.1                 |      |          | 6525 | 58.7 |
| Kevo              | 1P    | 26 03.8                 |      |          | 7605 | 68.4 |
| Kiruna            | 1P    | 06.3 <sup>C</sup>       |      |          | 7640 | 68.8 |
| Kirkenes          | 1P    | 08.6                    |      |          | 7665 | 69.0 |
| Skalstugan        | 1P    | 14.8 <sup>C</sup>       |      |          | 7785 | 70.1 |
| Sodankylä         | 1P    | 16.7                    |      |          | 7825 | 70.4 |
| Lillehammer       | 1P    | 23.8                    |      |          | 7955 | 71.6 |
| Umeå              | 1P    | 26.1 <sup>C</sup>       |      |          | 8005 | 72.1 |
| Oulu              | eP    | 27                      |      |          | 8030 | 72.3 |
| Kongsberg         | 1P    | 27.7                    |      |          | 8025 | 72.2 |
| Uddeholm          | 1P    | 32.6 <sup>C</sup>       |      |          | 8130 | 73.2 |
| Kajaani           | 1P    | 35.6                    |      |          | 8170 | 73.5 |
| Aflamalu          | 1P    | 36                      |      |          | 8190 | 73.7 |
| Göteborg          | 1P    | 41 <sup>C</sup>         |      |          | 8280 | 74.5 |
| Uppsala           | 1P    | 41 <sup>C</sup>         |      |          | 8290 | 74.6 |
| Antofagasta       | 1P    | 47.1 <sup>C</sup>       |      |          | 8400 | 75.6 |
| Folinigre         | 1P    | 49.4                    |      |          | 8435 | 75.9 |
| Héligoland        | eP    | 49.6                    | e    | 28 54.6  | 8410 | 75.7 |
| Nurmijaerwi       | 1P    | 49.9                    |      |          | 8440 | 76.0 |
| Gorron            | 1P    | 50                      |      |          | 8535 | 76.8 |
| Le Pertre         | 1P    | 50.9                    |      |          | 8460 | 76.2 |
| St. Sauveur       | 1P    | 51.4                    |      |          | 8470 | 76.2 |

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|                   |     |       |                   |    |          |      |      |
|-------------------|-----|-------|-------------------|----|----------|------|------|
| Köbenhavn         | 1P  | 18 26 | 51.6              |    |          | 8470 | 76.2 |
| Karlskrona        | 1P  |       | 54.6 <sup>C</sup> |    |          | 8550 | 76.9 |
| Uccle             | P   |       | 55                | L  | 19 00 15 | 8525 | 76.7 |
| Bensberg          | 1P  | 27    | 00.6              | LR | 18 57 00 | 8645 | 77.8 |
| Lisboa            | P   |       | 00.7              |    |          | 8660 | 77.9 |
| Luxembourg        | P   |       | 06                |    |          | 8705 | 78.4 |
| Toulx Ste Croix   | 1P  |       | 06.3              |    |          | 8775 | 79.0 |
| St. Saulge        | 1P  |       | 06.7              |    |          | 8775 | 79.0 |
| Sommée Lormes     | 1P  |       | 07.1              |    |          | 8780 | 79.0 |
| Les Buteaux       | 1P  |       | 07.9              |    |          | 8810 | 79.3 |
| La Frestale       | 1P  |       | 08                |    |          | 8800 | 79.2 |
| Archignac         | 1P  |       | 09.2              |    |          | 8825 | 79.4 |
| Le Pouchou        | 1P  |       | 10                |    |          | 8845 | 79.6 |
| Haudompré         | 1P  |       | 10.4              |    |          | 8850 | 79.6 |
| Champ du Feu      | 1P  |       | 11.2              |    |          | 8860 | 79.8 |
| Collm             | 1P  |       | 11.3 <sup>C</sup> |    |          | 8875 | 79.9 |
| Moxa              | 1P  |       | 11.5              |    |          | 8875 | 79.9 |
| Clermont          | 1P  |       | 11.5              | i  | 27 51    | 8865 | 79.8 |
| Karlsruhe         | 1P  |       | 11.7              |    |          |      |      |
| Strasbourg        | 1P  |       | 11.9 <sup>C</sup> |    |          | 8870 | 79.8 |
| Besançon          | e1P |       | 12                | ei | 33.3     | 8895 | 80.0 |
| Bühlernhohe       | 1P  |       | 12.4              |    |          | 8895 | 80.0 |
| Toledo            | 1P  |       | 13                | i  | 29       | 8905 | 80.1 |
| Bagnères          | e1P |       | 13                |    |          | 8925 | 80.3 |
| Stuttgart         | eP  |       | 14.4              |    |          | 8925 | 80.3 |
| Basel             | P   |       | 15                |    |          | 8950 | 80.5 |
| Feldberg          | 1P  |       | 15.1 <sup>C</sup> |    |          | 8940 | 80.5 |
| Erlangen          | 1P  |       | 15.3 <sup>C</sup> | i  | 53       | 8940 | 80.4 |
| Tübingen          | 1P  |       | 15.3 <sup>C</sup> |    |          | 8940 | 80.4 |
| Vouglans          | 1P  |       | 15.3 <sup>C</sup> | ei | 47.2     | 8945 | 80.5 |
| Messtetten        | eP  |       | 16                |    |          | 8965 | 80.7 |
| Ravensburg        | 1P  |       | 19.6 <sup>C</sup> |    |          | 9030 | 81.2 |
| Fürstentfeldbruck | 1P  |       | 20                |    |          | 9075 | 81.7 |
| Monteynard        | e1P |       | 20.4              |    |          | 9065 | 81.6 |
| Pruhonice         | 1P  |       | 20.5              |    |          | 9060 | 81.5 |
| Roselend          | e1P |       | 21                | ei | 27 28.9  | 9055 | 81.5 |
| Tortosa           | 1P  |       | 22                |    |          | 9110 | 82.0 |
| Kasperské Hory    | 1P  |       | 22                |    |          | 9095 | 81.8 |
| Lanslevillard     | 1P  |       | 25.4 <sup>C</sup> | i  | 41.9     | 9105 | 81.9 |
| Rabat             | P   |       | 25.5              | LM | 19 05 00 | 9160 | 82.4 |
| Averrhes          | 1P  |       | 25.5              | e  | 18 28 04 | 9175 | 82.6 |
| Peldehue          | eP  |       | 25.8              |    |          | 9245 | 83.2 |
| Isola             | 1P  |       | 27.4              |    |          | 9205 | 82.8 |
| Almería           | 1P  |       | 28                |    |          | 9235 | 83.1 |
| Chorzow           | e1P |       | 28                |    |          | 9215 | 82.9 |
| Raciborz          | eP  |       | 28                |    |          | 9200 | 82.8 |
| Lorgues           | 1P  |       | 28.3              |    |          | 9225 | 83.0 |
| St. Paul en Forêt | 1P  |       | 28.7              |    |          | 9235 | 83.1 |
| Alicante          | 1P  |       | 29                |    |          | 9305 | 83.7 |
| La Mourre         | 1P  |       | 29                |    |          | 9245 | 83.2 |
| Monaco            | 1P  |       | 29.5              |    |          | 9260 | 83.3 |

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|               |       |                       |      |          |       |       |
|---------------|-------|-----------------------|------|----------|-------|-------|
| Krakow        | iP    | 18 27 30 <sup>C</sup> |      |          | 9275  | 83°5  |
| Ljubljana     | eP    | 30                    |      |          | 9410  | 84°7  |
| Wien          | iP    | 31·4 <sup>C</sup>     |      |          | 9295  | 83°6  |
| Ifrane        | iP    | 32·5                  | M    | 18 27 36 | 9315  | 83°8  |
| Bratislava    | iP    | 33·3 <sup>D</sup>     | ei   | 28 00    | 9330  | 84°0  |
| Niedzica      | iP    | 34 <sup>C</sup>       |      |          | 9350  | 84°1  |
| Trieste       | iP    | 36                    | e    | 19 00 30 | 9405  | 84°6  |
| Srobarova     | iP    | 38                    | ei   | 18 27 46 | 9415  | 84°7  |
| Santiago      | eP    | 39                    |      |          | 9270  | 83°5  |
| Zagreb        | eP    | 40·5                  | e    | 48       | 9495  | 85°5  |
| Roma          | iP    | 49                    |      |          | 9680  | 87°1  |
| Iasi          | P     | 50·8                  | B    | 52       | 9830  | 88°5  |
| Beograd       | eiP   | 53·8                  |      |          | 9785  | 88°1  |
| M'Bour        | iP    | 54                    | L    | 59       | 9800  | 88°2  |
| Vrnioaia      | P     | 28 00 <sup>D</sup>    |      |          | 9930  | 89°4  |
| Sofia         | iP    | 07·1                  |      |          | 10110 | 91°0  |
| Istanbul Kand | iP    | 22·2                  |      |          | 10490 | 94°4  |
| Istanbul UTI  | iP    | 22·8                  | e    | 32 10    | 10490 | 94°4  |
| Tamanrasset   | iP    | 40 <sup>C</sup>       |      |          | 10890 | 98°0  |
| Tabriz        | eP    | 56                    | eiPP | 33 06    | 11315 | 101°8 |
| Quetta        | eP    | 29 26 <sup>D</sup>    |      |          | 12365 | 111°3 |
| Warramunga    | ePKP  | 33 46·5               |      |          | 13010 | 117°1 |
| Byrd          | PKP   | 49·1                  | e    | 35 04·4  | 13180 | 118°6 |
| Adélaïde      | iPKP  | 55·5 <sup>D</sup>     |      |          | 13500 | 121°5 |
| South Pole    | iPKP  | 34 08·7               | e    | 36 13·9  | 14295 | 128°6 |
| Addis Ababa   | ePKP  | 09                    |      |          | 14115 | 127°0 |
| Meekatharra   | iPKP  | 18·8 <sup>D</sup>     |      |          | 14770 | 132°9 |
| Chittagong    | ePP   | 32                    |      |          | 12630 | 113°7 |
| Broken Hill   | PKP   | 30                    |      |          | 15625 | 140°6 |
| Karoi         | eiPKP | 33                    |      |          | 15895 | 143°1 |
| Bulawayo      | eiPKP | 36                    |      |          | 16055 | 144°5 |
| Prétoria      | iPKP  | 44                    |      |          | 16390 | 147°5 |
| Mimry         | iPKP  | 44                    |      |          | 16405 | 147°7 |
| Mawson        | iPKP  | 54                    |      |          | 16795 | 151°2 |
| Tananarive    | iPKP  | 54 <sup>C</sup>       | i    | 35 22    | 17300 | 155°7 |

Inscrit à Pietermaritzburg - l'Aquila - Bangui - Padova -  
Mazatlan - Ke Manshah - Helwan.

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Alpes occidentales.

Données insuffisantes.

|               |   |            |    |          |  |  |
|---------------|---|------------|----|----------|--|--|
| Isola         | i | 19 06 35·5 |    |          |  |  |
| Monaco        | e | 37·5       | e  | 19 06 55 |  |  |
| Lanslevillard | e | 50         | ei | 07 19·7  |  |  |
| Roselend      | e | 07 02      | e  | 28       |  |  |
| Monteynard    | e | 02         |    |          |  |  |

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Au large de la cote de l'Oregon.

43° 4 N ; 126° 6 W ; h = 33 km ; H = 20 h. 23<sup>m</sup> 37.9 s. (CGS)

M. = 5.2 (Dugway); 5.1 (Wichita M.); 4.9 (Uinta Basin); 4.6 (CGS - College - Palmer); 4 1/2 - 4 3/4 (Golden); 4.5 (Tonto Forest)

|                 |     |                      |      |          |      |      |
|-----------------|-----|----------------------|------|----------|------|------|
| Corvallis       | eP  | 20 24 19             |      |          | 290  | 2'6  |
| Mineral         | eP  | 51.3 <sup>C</sup>    |      |          |      |      |
| Oroville        | iP  | 59.4                 |      |          | 600  | 5'4  |
| Berkeley        | eP  | 25 11.5 <sup>D</sup> | eS   | 20 26 36 | 720  | 6'5  |
| Blue M.         | ePn | 17                   |      |          | 755  | 6'8  |
| Mt. Hamilton    | eP  | 21.2 <sup>D</sup>    |      |          | 790  | 7'1  |
| Jamestown       | eP  | 24.1 <sup>D</sup>    |      |          | 800  | 7'2  |
| San Luis Dam    | iP  | 27.4                 | e    | 54.5     | 835  | 7'5  |
| Newport         | iP  | 36.3                 |      |          | 910  | 8'2  |
| Nordman         | iP  | 40.8                 |      |          | 945  | 8'5  |
| Priest          | eP  | 41.2 <sup>C</sup>    |      |          | 955  | 8'6  |
| Hungry Horse    | eP  | 26 01.5              | e    | 29 32.5  | 1110 | 10'0 |
| Butte           | eP  | 05.2                 | e    | 26 16.6  | 1145 | 10'3 |
| Dugway          | eP  | 12.3                 |      |          | 1200 | 10'8 |
| Bozeman SSS     | eP  | 14.5                 | eL   | 29 28    | 1210 | 10'9 |
| Pasadena        | eP  | 19                   | eL   | 28 30    | 1255 | 11'3 |
| Uinta Basin     | eP  | 42.8                 | ePP  | 26 48.5  | 1445 | 13'0 |
| Edmonton        | eP  | 43                   |      |          | 1455 | 13'1 |
| Tonto Forest    | eP  | 27 11.4              | eS   | 30 08    | 1665 | 15'0 |
| Golden          | eP  | 25.6                 |      |          | 1810 | 16'3 |
| Tucson          | eP  | 32.8                 |      |          | 1855 | 16'7 |
| Lubbock         | eP  | 28 28                |      |          | 2400 | 21'6 |
| Mts Sheep Creek | eP  | 32.3                 |      |          | 2455 | 22'1 |
| Palmer          | eP  | 35                   |      |          | 2510 | 22'6 |
| Manhattan       | eP  | 41                   |      |          | 2535 | 22'8 |
| Black Rapids    | eP  | 41.1                 |      |          | 2555 | 23'0 |
| Wichita M.      | eP  | 45.4                 | e(S) | 33 04    | 2590 | 23'3 |
| Big Mountain    | eP  | 48.9                 |      |          | 2635 | 23'7 |
| Sparrevohn      | eP  | 55                   |      |          | 2755 | 24'8 |
| College         | eP  | 55                   |      |          | 2735 | 24'6 |
| Gilmore Creek   | eP  | 55.7                 |      |          | 2735 | 24'6 |
| Pedro Dome      | eP  | 56                   |      |          | 2735 | 24'6 |
| Tanana          | eP  | 29 09.6              |      |          | 2890 | 26'0 |
| Mould Bay       | eP  | 30 12                |      |          | 3665 | 33'0 |
| Resolute        | eP  | 23                   |      |          | 3820 | 34'4 |
| Frobisher       | eP  | 58                   |      |          | 4255 | 38'3 |
| Collm           | eP  | 35 44                |      |          | 8810 | 79'4 |
| La Paz          | eP  | 45                   |      |          |      |      |
| Niedzica        | eP  | 36 02.9              |      |          |      |      |

inscrit à Bangui

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Mer d'Alboran.

35°9 N ; 3°65W ; h = 33<sup>km</sup> ; H = 20<sup>h</sup>.23<sup>mn</sup>42.5<sup>s</sup>. (Madrid)

|         |     |          |      |            |     |     |
|---------|-----|----------|------|------------|-----|-----|
| Malaga  | ePg | 20 24 03 | 1S   | 20 24 13.2 | 114 | 1'0 |
| Almería | ePn | 08.4     | eSn  | 29.5       | 146 | 1'3 |
| Ifrane  | Pn  | 27.5     | eISn | 56         | 236 | 2'7 |

XXVIII.- 19 Janvier

Région de la Nouvelle Irlande

H = 20<sup>h</sup>.24<sup>mn</sup>12.5<sup>s</sup>. ; M. = 5.4 (Rabaul)

|                 |     |                       |    |          |     |     |
|-----------------|-----|-----------------------|----|----------|-----|-----|
| Keravat         | eiP | 20 24 57 <sup>D</sup> | 1S | 20 25 31 | 255 | 2'3 |
| Rabaul          | 1P  | 58                    | 1S | 33       | 330 | 3'0 |
| Rabalanakala    | eP  | 58 <sup>D</sup>       |    |          |     |     |
| Port Moresby    | 1P  | 26 12.2 <sup>D</sup>  | eS | 27 48    |     |     |
| Charters Towers | 1P  | 28 22.8               |    |          |     |     |
| Brisbane        | 1P  | 29 06.5               |    |          |     |     |
| Warramunga      | eP  | 27.5                  |    |          |     |     |
| Adélaïde        | 1P  | 30 44.4 <sup>D</sup>  |    |          |     |     |

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Données insuffisantes (Phases P ou EKP)

|             |    |          |  |  |  |  |
|-------------|----|----------|--|--|--|--|
| Kevo        | 1P | 20 40 41 |  |  |  |  |
| Sodankylä   | 1P | 41 05.1  |  |  |  |  |
| Kajaani     | 1P | 12.5     |  |  |  |  |
| Oulu        | eP | 17       |  |  |  |  |
| Umeå        | 1P | 21.6     |  |  |  |  |
| Bergen      | 1P | 25.7     |  |  |  |  |
| NurmiJaerwi | 1P | 26.8     |  |  |  |  |
| Skalstugan  | 1P | 27.8     |  |  |  |  |
| Uppsala     | 1P | 32.4     |  |  |  |  |
| Uddeholm    | 1P | 33.7     |  |  |  |  |
| Lillehammer | 1P | 34.1     |  |  |  |  |

XXX.- 19 Janvier

Formose . A environ 15<sup>km</sup> de Tawu

120°8 E ; 22°4 N ; h = 50<sup>km</sup> (Taiwan)

|           |    |            |   |            |  |  |
|-----------|----|------------|---|------------|--|--|
| Tawu      | P  | 21 54 06.3 | S | 21 54 11.6 |  |  |
| Hengchun  | P  | 12.8       | S | 20.7       |  |  |
| Tai tung  | P  | 14.6       | S | 23.9       |  |  |
| Tainan    | eP | 19.5       | S | 29.5       |  |  |
| Tai chung | eP | 29.9       |   | 55 02.5    |  |  |



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|         |    |            |   |            |
|---------|----|------------|---|------------|
| Hwalien | P  | 21 54 30.3 | S | 21 54 41.6 |
| Anpu    | P  | 42.7       | S | 55 18.0    |
| Ilan    | eP | 48         | S | 09.7       |
| Taipei  | eP | 59.2       | S | 20.2       |

XXXI.- 19 Janvier

Sicile.

Réplique : M. = 3.80(Roma); H = 22h.33<sup>mn</sup>(22)s' (ING)

|                 |     |           |     |            |
|-----------------|-----|-----------|-----|------------|
| Messina ING     | ePn | 22 34(02) |     |            |
| Messina         | ePn | 05.3      | iSn | 22 34 31.2 |
| Reggio_Calabria | e   | 10.8      | i   | (39.8)     |
| Roma            | e   | 46.2      | e   | 49         |
| La Mourre       | eP  | 35 14.4   |     |            |
| Lorgues         | iP  | 17.6      |     |            |

XXXII.- 19 Janvier

Région de la Nouvelle Bretagne

H = 22h.41<sup>mn</sup>04s.; M. = 5.0(Rabaul)

|              |    |          |      |          |
|--------------|----|----------|------|----------|
| Keravat      | iP | 22 42 30 | i(S) | 22 43 15 |
| Rabaul       | iP | 32.5     | eS   | 40       |
| Rabalanakaia | eP | 33.5     |      |          |
| Port Moresby | eP | 49.8     | eS   | 38       |

I.- 20 Janvier

Zone indo\_antarctique au Sud de l'Australie.

49° 4 S ; 121° 4 E ; h = 33<sup>km</sup> ; H = 01h.10<sup>mn</sup>22s. (CGS)

|                |     |            |                   |            |             |
|----------------|-----|------------|-------------------|------------|-------------|
| Tarraleah      | eP  | 01 14 42.0 |                   | 2090       | 18.8        |
| Tasmania Univ. | eP  | 43.0       |                   | 2133       | 19.1        |
| Adélaïde       | eP  | 45.0       |                   | 2145       | 19.3        |
| Toolangi       | eP  | 15 05.0    |                   | 2330       | 21.0        |
| South Pole     | eP  | 17 59.6    |                   | 4520       | 40.7        |
| Byrd           | P   | 18 46.0    |                   | 5145       | 46.3        |
| Bozeman SSS    | PKP | 29 51.5    |                   | 16070      | 144.6       |
| Mould Bay      | PKP | 52.0       |                   | 16030      | 144.3       |
| Uinta Basin    | PKP | 52.8       |                   | 16045      | 144.4       |
| Golden         | PKP | 58.0       |                   | 16200      | 145.8       |
| Wichita M.     | PKP | 30 01.3    | ePKP <sub>2</sub> | 01 30 05.7 | 16370 147.3 |
| Resolute       | PKP | 05.0       |                   | 18720      | 150.5       |

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Préfecture de Kyoto (Japon)

34° 55' N; 135° 39' E; h = 10 km; H = 02h.31<sup>mn</sup>37.0 S.; M. = 4-4 (JMA)

|            |    |       |      |    |       |      |     |     |
|------------|----|-------|------|----|-------|------|-----|-----|
| Kyoto      | iP | 02 31 | 41.6 | IS | 02 31 | 43.0 | 13  | 0.1 |
| Abuyama    | P  |       | 41.7 |    |       |      |     |     |
| Osaka      | iP |       | 45.0 | IS |       | 50.4 | 31  | 0.3 |
| Hikona     | iP |       | 49.4 | IS |       | 57.2 | 87  | 0.6 |
| Sumoto     | P  |       | 54.2 | IS | 32    | 06.3 | 94  | 0.8 |
| Fukui      | iP | 32    | 01.3 | IS |       | 17.4 | 136 | 1.2 |
| Hamama     | P  |       | 09.7 | S  |       | 32.4 | 191 | 1.7 |
| Mirotto    | P  |       | 16.0 | eS |       | 48   | 229 | 2.1 |
| Matsushiro | P  |       | 21   | S  |       | 59   | 293 | 2.6 |
| Kofu       | eP |       | 32   | eS |       | 52.0 | 277 | 2.5 |

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Pyrénées

43° 2' N ; 0° 5' W ; H = 03h.06<sup>mn</sup>41 S. (BCIS)

|               |      |         |      |     |         |      |     |     |
|---------------|------|---------|------|-----|---------|------|-----|-----|
| Bagnères      | eiPg | 03 08   | 50.5 |     |         |      | 50  | 0.5 |
| Log Ono       | ePn  | 09 09   |      | iSn | 03 09   | 29   | 185 | 1.7 |
| Le Pouchou    | iPg  | 09 18.9 |      | ei  | 10 39.2 |      | 210 | 1.9 |
| La Frestale   | iPg  |         | 19.2 | ei  |         | 39.2 | 215 | 1.9 |
| Archignac     | iPg  |         | 24.5 | ei  |         | 50.5 | 245 | 2.3 |
| Tortosa       | iPg  |         | 29   | iSg | 09 56   |      | 280 | 2.5 |
| St. Saulge    | eiSg | 11      | 15.3 |     |         |      | 535 | 4.8 |
| Les Buteaux   | eiSg |         | 18.5 |     |         |      | 545 | 4.9 |
| Le Pertre     | eiSg |         | 22.0 |     |         |      | 535 | 4.8 |
| Sommée Lormes | eiSg |         | 28.9 |     |         |      | 560 | 5.1 |
| Gorron        | eiSg |         | 29.0 |     |         |      | 575 | 5.3 |
| St. Sauveur   | eiSg |         | 38.4 |     |         |      | 595 | 5.4 |
| Folinière     | eiSg |         | 39.8 |     |         |      | 615 | 5.5 |

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Sicile.

Réplique : H = 03h.28<sup>mn</sup>(34) S. (ING); M. = 3.7 (Roma)

|                   |     |              |      |     |       |      |  |  |
|-------------------|-----|--------------|------|-----|-------|------|--|--|
| Messina ING       | ePn | 03 29 (14.6) |      | eS  | 03 29 | 43.0 |  |  |
| Messina           | ePn |              | 15   | iSn |       | 43.1 |  |  |
| La Mourre         | eiP | 30           | 25.6 |     |       |      |  |  |
| St. Paul en Forêt | eiP |              | 27.3 |     |       |      |  |  |
| Lorgues           | eiP |              | 29.0 |     |       |      |  |  |
| Roma              | eSg |              | 39   | e   | 31 08 |      |  |  |

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Près de la cote, région Nord de la Californie.

40° 2' N ; 124° 3' W ; h = 33 km ; H = 03h.50<sup>mn</sup>58 S. (CGS)  
 Ressenti à Scotia

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M. = 4.7(Dugway); 4.6(CGS - Uinta Basin); 4.3(Eureka); 3.5 - 3.7(Berkeley)

|              |    |       |                   |    |            |      |      |
|--------------|----|-------|-------------------|----|------------|------|------|
| Oroville     | 1P | 03 51 | 33.2              | e  | 03 52 03.0 | 255  | 2.3  |
| Berkeley     | 1P |       | 43.0              |    |            | 320  | 2.9  |
| Mt. Hamilton | eP |       | 52.6              |    |            | 400  | 3.6  |
| Jamestown    | eP |       | 56.5              |    |            | 420  | 3.8  |
| San Luis Dam | 1P |       | 58.8 <sup>C</sup> | eL | 46.0       | 445  | 4.0  |
| Eureka       | 1P | 52    | 32.9              |    |            | 720  | 6.5  |
| Blue M.      | eP |       | 40.0              |    |            | 770  | 6.9  |
| Dugway       | eP | 53    | 06.7              |    |            | 980  | 8.8  |
| Uinta Basin  | eP |       | 43.5              |    |            | 1255 | 11.3 |

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Nouvelle Calédonie.

20° 5 S ; 165° 5 E ; H = 04<sup>h</sup>.56<sup>mn</sup>45<sup>s</sup>. (Nouméa)

|          |     |       |                   |    |            |      |  |
|----------|-----|-------|-------------------|----|------------|------|--|
| Koumac   | 1P  | 04 57 | 06.5 <sup>C</sup> | 1S | 04 57 23.5 |      |  |
| Ouanaham | e1P |       | 18.5              | 1S |            | 42.5 |  |
| Nouméa   | 1P  |       | 18.9              | 1S |            | 46   |  |

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Région des Iles Açores.

41° 3 N ; 29° 2 W ; h = 33<sup>km</sup> ; H = 06<sup>h</sup>.27<sup>mn</sup>39<sup>s</sup>. (CGS)

M. = 5.3(La Palma); 5.2(Bangui); 4.7(Dugway - CGS); 4.6(Wichita M.);  
4.5(Uinta Basin - Tonto Forest); 4.3(Blue M.); 4.2(Eureka).

|               |      |       |                   |     |            |      |      |
|---------------|------|-------|-------------------|-----|------------|------|------|
| Ponta Delgada | Pn   | 06 28 | 44.0              | Sn  | 06 29 36.5 | 500  | 4.5  |
| Le Pertre     | eP   | 32    | 27.8              |     |            | 2340 | 21.1 |
| Gorron        | eP   |       | 30.3              |     |            | 2380 | 21.2 |
| St. Sauveur   | eP   |       | 37.6              |     |            | 2415 | 21.8 |
| Folinigre     | eP   |       | 38.5              |     |            | 2390 | 21.5 |
| Garchy        | i(P) | 33    | 05.7 <sup>C</sup> |     |            | 2640 | 23.8 |
| Tamanrasset   | eP   | 34    | 32                |     |            | 3825 | 34.4 |
| Resolute      | eP   | 35    | 48.0              |     |            | 4920 | 44.3 |
| Mould Bay     | eP   | 36    | 36.0              |     |            | 5600 | 50.4 |
| Wichita M.    | eP   |       | 59.7              | ePS | 44 44      | 5980 | 53.8 |
| Edmonton      | eP   | 37    | 11.0              |     |            | 6130 | 55.2 |
| Bangui        | 1P   |       | 19.5              | 1pP | 37 26.7    | 6255 | 56.3 |
| La Palma      | eP   |       | 35.2              |     |            | 6470 | 58.2 |
| Uinta Basin   | eP   |       | 36.2              |     |            | 6520 | 57.7 |
| Newport       | eP   |       | 40.0              |     |            | 6610 | 59.5 |
| Albuquerque   | eP   |       | 41.0              |     |            | 6590 | 59.3 |
| Dugway        | eP   |       | 50.8              |     |            | 6770 | 60.9 |
| Blue M.       | eP   |       | 53.4              |     |            | 6810 | 61.3 |
| Tonto Forest  | eP   | 38    | 05.9              |     |            | 7000 | 63.0 |
| Eureka        | 1P   |       | 07.2              |     |            | 7030 | 63.3 |
| Tucson        | eP   |       | 10.0              |     |            | 7080 | 63.7 |
| Goldstone     | P    |       | 25                |     |            | 7355 | 66.2 |

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|           |    |                         |      |      |
|-----------|----|-------------------------|------|------|
| Mineral   | eP | 06 38 27.7 <sup>D</sup> | 7380 | 66.4 |
| Jamestown | eP | 31.8 <sup>D</sup>       | 7450 | 67.1 |
| Penas     | eP | 37.2                    | 7545 | 67.9 |
| La Paz    | eP | 37.7                    | 7545 | 67.9 |

inscrit à Trieste - Roma - l'Aquila - M'Bour - Uccle - Toledo -  
Strasbourg - Caracas - Berkeley.

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Région Nord du Territoire du Yukon (Canada)

67°8 N ; 136°9 W ; h = 33km ; H = 08h.15<sup>mn</sup>01<sup>s</sup>. (CGS)

M. = 4.6 (Palmer); 4.1 (Uinta Basin - CGS); 4.0 (Wichita M.); 3.6 (Blue M.).

|               |    |            |      |      |
|---------------|----|------------|------|------|
| Gilmore Creek | eP | 08 16 17.8 | 570  | 5.1  |
| College       | eP | 20.0       | 580  | 5.2  |
| Palmer        | eP | 56.3       | 900  | 8.1  |
| Coppermine    | eP | 17 00.0    | 320  | 8.3  |
| Resolute      | eP | 18 39.0    | 1645 | 14.8 |
| Glamis        | P  | 19 35.7    |      |      |
| Blue M.       | eP | 20 24.8    | 2800 | 25.2 |
| Uinta Basin   | eP | 21 21.1    | 3480 | 31.3 |
| Wichita M.    | eP | 22 31.7    | 4410 | 39.7 |

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Région des Iles Açores.

41°3 N ; 29°3 W ; H = 33km ; H = 08h.22<sup>mn</sup>29<sup>s</sup>. (CGS)

M. = 5.3 (Newport); 5.0 (Bangui); 4.8 (Eureka - Digway - Wichita M.);  
4.7 (CGS - Tonto Forest); 4.6 (Uinta Basin; Albuquerque); 4.3 (Blue M.)  
4.2 (Cumberland Pl.).

|                   |    |                   |     |            |      |      |
|-------------------|----|-------------------|-----|------------|------|------|
| Ponta Delgada     | Pn | 08 23 32.2        | Sn  | 08 24 23.5 | 505  | 4.5  |
| Angra do Heroismo | Sn | 49.4              |     |            | 340  | 3.1  |
| Toledo            | eP | 26 46.6           | LR  | 31 10      | 2135 | 19.2 |
| Ifrane            | P  | 27 08.5           | eM  | 27 34      | 2300 | 20.7 |
| Le Pertre         | eP | 14.5              |     |            | 2345 | 21.1 |
| Almería           | eP | 15                | ePP | 36         | 2365 | 21.3 |
| Gorron            | eP | 16.7              |     |            | 2365 | 21.3 |
| Folinjare         | eP | 23.3              |     |            | 2400 | 21.6 |
| Toulx Ste Croix   | eP | 27.6-             |     |            | 2575 | 23.2 |
| Somme Lormes      | eP | 27.8-             |     |            | 2705 | 24.3 |
| St. Saulge        | eP | 27.8-             |     |            | 2680 | 24.1 |
| Les Buteaux       | eP | 27.8-             |     |            | 2715 | 24.4 |
| Cumberland Pl.    | eP | 30 34.1           |     |            | 4870 | 43.8 |
| Resolute          | eP | 37.4 <sup>D</sup> |     |            | 4910 | 44.2 |
| Mould Bay         | eP | 31 25.0           |     |            | 5590 | 50.3 |
| Wichita M.        | eP | 48.3              | ePS | 39 32      | 5970 | 53.7 |

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|              |      |                   |     |            |      |      |
|--------------|------|-------------------|-----|------------|------|------|
| Edmonton     | eP   | 08 31 59.0        |     |            | 6120 | 55.1 |
| Golden       | eP   | 32 06.4           |     |            | 6230 | 56.1 |
| Bangui       | iP   | 08.6              | iPP | 08 32 17.6 | 6270 | 56.4 |
| Hungry Horse | eP   | 16.2              |     |            | 6400 | 57.6 |
| La Palma     | eP   | 22.5              |     |            | 6455 | 58.1 |
| Uinta Basin  | eP   | 25.0              | ePS | 40 42      | 6510 | 58.6 |
| Nordman      | eP   | 28.0              |     |            | 6580 | 59.2 |
| Albuquerque  | eP   | 29.5              |     |            | 6580 | 59.2 |
| Newport      | eP   | 30.0              |     |            | 6600 | 59.4 |
| Dugway       | eP   | 33.9              |     |            | 6755 | 60.8 |
| Blue M.      | eP   | 42.3              |     |            | 6810 | 61.3 |
| Tonto Forest | eP   | 45.0              |     |            | 6990 | 62.9 |
| Eureka       | iP   | 55.9              |     |            | 7020 | 63.2 |
| Tucson       | eP   | 33 00.0           |     |            | 7070 | 63.6 |
| Goldstone    | P    | 15                |     |            | 7345 | 66.1 |
| Jamestown    | eP   | 20.7 <sup>D</sup> |     |            | 7445 | 67.0 |
| Mt. Hamilton | eP   | 21.1 <sup>D</sup> |     |            | 7570 | 68.1 |
| Penas        | P    | 26                |     |            | 7530 | 67.8 |
| La Paz       | P    | 27.5              |     |            | 7545 | 67.9 |
| Priest       | eP   | 28.3 <sup>D</sup> |     |            | 7575 | 68.2 |
| Tonto Forest | ePcP | 32                | ePP | 35 06.3    | 6985 | 62.9 |

inscrit à Strasbourg - l'Aquila - Trieste - Caracas - Istanbul UTI -  
Berkeley.

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Région des Iles Açores

41°4 N ; 29°3 W ; h = 33<sup>km</sup> ; H = 08h.57<sup>mn</sup>45<sup>s</sup>. (CGS)

M. = 5.3(Bangui) ; 4.7(Penas - Dugway) ; 4.6(CGS) ; 4.5(Wichita)M -  
Uinta Basin - Tonto Forest) ; 4.4(Eureka) ; 4.2(Blue M.).

|                |     |                   |       |            |      |      |
|----------------|-----|-------------------|-------|------------|------|------|
| Ponta Delgada  | Pn  | 08 58 48.4        | Sn    | 08 59 40.9 | 510  | 4.6  |
| Toledo         | eP  | 09 02 11.8        | LT    | 09 06 40   | 2135 | 19.2 |
| Ifrane         | eP  | 25                |       |            | 2300 | 20.7 |
| Le Pertre      | eP  | 25.6              |       |            | 2340 | 21.1 |
| Gorron         | eP  | 31.4              |       |            | 2360 | 21.2 |
| St. Sauveur    | eP  | 34.9              |       |            | 2420 | 21.8 |
| Folinigre      | eP  | 37.3              |       |            | 2395 | 21.5 |
| Garchy         | eP  | 52.0 <sup>C</sup> |       |            | 2640 | 23.8 |
| Cumberland Pl. | eP  | 05 50.3           |       |            | 4870 | 43.8 |
| Resolute       | eP  | 52.0              |       |            | 4900 | 44.1 |
| Mould Bay      | eP  | 06 40.0           |       |            | 5580 | 50.2 |
| Wichita M.     | eP  | 07 04.1           |       |            | 5970 | 53.7 |
| Edmonton       | eP  | 14.0              |       |            | 6110 | 55.0 |
| Bangui         | iP  | 25.5 <sup>D</sup> | iPP   | 09 24.5    | 6270 | 56.4 |
| Hungry Horse   | eP  | 35.5              |       |            | 6390 | 57.5 |
| La Palma       | eIP | 39.5              |       |            | 6470 | 58.2 |
| Uinta Basin    | eP  | 40.0              | e(PP) | 41.9       | 6500 | 58.5 |
| Albuquerque    | eP  | 44.0              |       |            | 6570 | 59.1 |

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|              |    |            |              |      |      |
|--------------|----|------------|--------------|------|------|
| Nordman      | eP | 09 07 44.0 |              | 6570 | 59.1 |
| Newport      | eP | 45.0       |              | 6600 | 59.4 |
| Dugway       | eP | 55.2       |              | 6745 | 60.7 |
| Blue M.      | eP | 57.7       |              | 6800 | 61.2 |
| Tonto Forest | eP | 08 10.9    |              | 6980 | 62.8 |
| Eureka       | iP | 12.2       |              | 7020 | 63.2 |
| Tucson       | eP | 15.0       | e 09 10 16.5 | 7070 | 63.6 |
| Mineral      | eP | 30         |              | 7370 | 66.3 |
| Goldstone    | P  | 31         |              | 7345 | 66.1 |
| Jamestown    | eP | 36.5       |              | 7440 | 66.9 |
| Penas        | P  | 42.4       |              | 7545 | 67.9 |
| La Paz       | eP | 45.5       |              | 7545 | 67.9 |

Inscrit à Strasbourg - l'Aquila - Caracas - Berkeley -  
Tamanrasset.

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Région des Iles Açores.

41°0 N ; 29°2 W ; h = 33 km ; H = 09h.14<sup>mn</sup>21<sup>s</sup>. (CGS)

M. = 5.5(Bangui) ; 4.4(Uinta Basin - CGS - Dugway) ; 4.3(Wichita M.) ;  
4.1(Blue M. - Tonto Forest).

|               |      |            |    |            |      |      |
|---------------|------|------------|----|------------|------|------|
| Ponta Delgada | Pn   | 09 15 45.0 | Sn | 09 16 35.5 |      |      |
| Ifrane        | eP   | 19 05      | ei | 25 26      | 2280 | 20.5 |
| Le Pertre     | e(P) | 06.6       |    |            |      |      |
| Folinigre     | eP   | 10.9       |    |            | 2410 | 21.7 |
| St. Sauveur   | eP   | 14.4       |    |            | 2430 | 21.9 |
| Tamanrasset   | e(P) | 21 29      |    |            | 3810 | 34.3 |
| Longuire      | iP   | 22 04.2    | 1  | 22 16.9    |      |      |
| Glamis        | P    | 07         |    |            |      |      |
| Wichita M.    | eP   | 23 45.4    |    |            | 5990 | 53.9 |
| Bangui        | iP   | 59.7       |    |            | 6245 | 56.2 |
| Bozeman SSS   | eP   | 24 08.5    |    |            | 6400 | 57.6 |
| Uinta Basin   | eP   | 20.0       |    |            | 6530 | 58.8 |
| Dugway        | eP   | 32.4       |    |            | 6780 | 61.0 |
| Blue M.       | eP   | 37.4       |    |            | 6830 | 61.5 |
| Tonto Forest  | eP   | 49.1       |    |            | 7010 | 63.1 |

Inscrit à Strasbourg.

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Région des Iles Açores.

41°1 N ; 29°3 W ; h = 33 km ; H = 09h.30<sup>mn</sup>36<sup>s</sup>. (CGS)

M. = 5.2(Bangui) ; 4.4(CGS) ; 4.3(Wichita M.) ; 3.8(Tonto Forest)

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|               |    |                      |     |            |      |      |
|---------------|----|----------------------|-----|------------|------|------|
| Ponta Delgada | Pn | 09 31 42.2           | Sn  | 09 32 34.0 |      |      |
| Resolute      | eP | 38 45.0              |     |            | 4930 | 44.4 |
| Mould Bay     | eP | 39 32.0              |     |            | 5610 | 50.5 |
| Wichita M.    | eP | 56.6                 |     |            | 5970 | 53.7 |
| Bangui        | iP | 40 16.5 <sup>D</sup> | iPP | 40 27.0    | 6255 | 56.3 |
| Uinta Basin   | eP | 34                   |     |            |      |      |
| Tonto Forest  | eP | 41 08.1              |     |            | 6990 | 62.9 |
| La Paz        | eP | 31                   |     |            |      |      |

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Ouest de la Nouvelle Guinée.

3° 2 S ; 136° 6 E ; h = 33<sup>km</sup> ; H = 09<sup>h</sup>.55<sup>mm</sup>43<sup>s</sup>. (CGS)

M. = 4.7 (CGS - Mt. Tsukuba)

|                 |     |            |    |          |       |       |
|-----------------|-----|------------|----|----------|-------|-------|
| Port Moresby    | eP  | 09 58 37   | eS | 10 00 50 | 1355  | 12.2  |
| Warramunga      | eP  | 59 36      | e  | 02 28.5  | 1870  | 16.6  |
| Charters Towers | iP  | 10 00 07.4 |    |          | 2130  | 19.2  |
| Brisbane        | iP  | 01 39.0    |    |          | 3180  | 29.6  |
| Canberra        | eP  | 02 27      |    |          | 3780  | 34.0  |
| Dodaira         | eP  | 03 09.2    |    |          | 4345  | 39.1  |
| Mt. Tsukuba     | eP  | 10.4       |    |          | 4370  | 39.5  |
| Byrd            | eP  | 08 39.6    |    |          | 9920  | 89.5  |
| Huancayo        | PKP | 15 22.0    |    |          | 16090 | 144.6 |
| La Paz          | PKP | 32.0       |    |          | 16520 | 148.7 |
| Penas           | PKP | 32.1       |    |          | 16510 | 148.6 |

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Région des Iles Açores.

41° 2 N ; 29° 5 W ; h = 33<sup>km</sup> ; H = 10<sup>h</sup>.10<sup>mm</sup>48<sup>s</sup>. (CGS)

M. = 5.6 (Bangui) ; 4.6 (Wichita M. - CGS) ; 4.4 (Uinta Basin) ; Dugway) ;  
4.3 (Tonto Forest).

|               |    |                   |     |            |      |      |
|---------------|----|-------------------|-----|------------|------|------|
| Ponta Delgada | Pn | 10 11 52.1        | Sn  | 10 12 43.4 |      |      |
| Ifrane        | eP | 15 30.5           |     |            | 2310 | 20.8 |
| Resolute      | eP | 18 56.0           |     |            | 4920 | 44.5 |
| Mould Bay     | eP | 10 43.0           |     |            | 5600 | 50.4 |
| Wichita M.    | eP | 20 08.7           | ePS | 27 49      | 5955 | 53.6 |
| Edmonton      | eP | 19.0              |     |            | 6120 | 55.1 |
| Bangui        | iP | 27.6 <sup>D</sup> | iPP | 22 35.6    | 6280 | 56.5 |
| Bozeman SSS   | eP | 34.5              |     |            | 6370 | 57.3 |
| Uinta Basin   | eP | 41.2              |     |            | 6500 | 58.5 |
| Dugway        | eP | 21 03.1           |     |            | 6745 | 60.7 |
| Blue M.       | eP | 03.3              |     |            | 6800 | 61.2 |
| Tonto Forest  | eP | 14.5              |     |            | 6980 | 62.8 |
| La Paz        | eP | 41.5              |     |            |      |      |
| Penas         | eP | 45.8              |     |            |      |      |

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Région des Iles Açores.

41°N ; 29°1 W; h = 33km ; H = 10h.49mm13s. (CGS)

M. = 5.3(Bangui); 4.4(Wichita M.); 4.3(CGS - Uinta Basin -  
Tonto Forest); 3.8(Blue M.).

|               |    |            |     |            |      |      |
|---------------|----|------------|-----|------------|------|------|
| Ponta Delgada | Pn | 10 50 19.4 | Sn  | 10 51 08.3 |      |      |
| Resolute      | eP | 57 23.0    |     |            | 4955 | 44.6 |
| Mould Bay     | eP | 58 11.0    |     |            | 5630 | 50.7 |
| Wichita M.    | eP | 34.5       |     |            | 5990 | 53.9 |
| Edmonton      | eP | 49.0       |     |            | 6155 | 55.4 |
| Bangui        | iP | 51.6       | iPP | 58 59.5    | 6230 | 56.1 |
| Uinta Basin   | eP | 59 11.7    |     |            | 6545 | 58.9 |
| Albuquerque   | eP | 13.0       |     |            | 6600 | 59.4 |
| Newport       | eP | 16.0       |     |            | 6645 | 59.8 |
| Dugway        | eP | 25.7       |     |            | 6790 | 61.1 |
| Blue M.       | eP | 30.9       |     |            | 6845 | 61.6 |
| Tonto Forest  | eP | 41.0       |     |            | 7020 | 63.2 |
| Tucson        | eP | 45.5       |     |            | 7100 | 63.9 |

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Région des Iles Açores.

40°2 N ; 29°9 W; h = 33km ; H = 11h.22mm36s. (CGS)

M. = 5.4(Bangui); 4.5(Uinta Basin - CGS); 4.4(Bozeman SSS - Dugway);  
4.2(Tonto Forest); 4.1(Blue M.)

|               |    |                   |     |            |      |      |
|---------------|----|-------------------|-----|------------|------|------|
| Ponta Delgada | Pn | 11 23 39.7        | Sn  | 11 24 30.5 |      |      |
| Ifrane        | eP | 27 19             |     |            | 2320 | 20.9 |
| Wichita M.    | eP | 31 58.0           | ePS | 39 39      | 5945 | 53.5 |
| Edmonton      | eP | 32 06.0           |     |            | 6170 | 55.5 |
| Bangui        | iP | 12.4 <sup>D</sup> | ePP | 32 24.4    | 6255 | 56.3 |
| Hungry Horse  | eP | 21.2              |     |            | 6430 | 57.9 |
| Bozeman SSS   | eP | 25.5              |     |            | 6400 | 57.6 |
| Newport       | eP | 37.0              |     |            | 6645 | 59.8 |
| Uinta Basin   | eP | 42.0              |     |            | 6520 | 58.7 |
| Dugway        | eP | 48.0              |     |            | 6770 | 60.9 |
| Blue M.       | eP | 52.3              |     |            | 6830 | 61.5 |
| Tonto Forest  | eP | 33 02.3           |     |            | 6990 | 62.9 |

Inscrit à Strasbourg - Brébeuf - Toledo - Uinta Basin

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Maroc. (Explosion de 15 Tonnes).

32°46' N ; 6°46' W; h = 00km ; H = 11h.41mm26.1s. (Rabat)

|          |      |            |      |            |     |     |
|----------|------|------------|------|------------|-----|-----|
| Averroes | iPg  | 11 41 41.0 | eISg | 11 41 51.5 | 85  | 0.8 |
| Rabat Z  | eIPb | 47         | eI   | 42 05      | 130 | 1.2 |
| Ifrane   | iPb  | 55.8       | Sb   | 15.5       | 175 | 1.6 |



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Région de la Nouvelle Irlande

4°7 S ; 153°3E; h = 64<sup>km</sup> ; H = 11<sup>h.59<sup>mn</sup>27<sup>s.</sup></sup>(CGS)

M. = 4.6(Blue M.); 4.5(CGS); 4.4(Eureka)

|                 |                   |       |                   |     |          |       |       |
|-----------------|-------------------|-------|-------------------|-----|----------|-------|-------|
| Wanliss Street  | iP                | 11 59 | 47.5 <sup>D</sup> |     |          | 130   | 1'2   |
| Sukphur Creek   | iP                |       | 48.0 <sup>D</sup> |     |          | 130   | 1'2   |
| Rabalanakaia    | iP                |       | 48.0 <sup>D</sup> |     |          | 130   | 1'2   |
| Rabaul          | iP                |       | 48.2 <sup>D</sup> | 1S  | 12 00 04 | 130   | 1'2   |
| Keravat         | iP                |       | 49.5 <sup>D</sup> |     |          | 145   | 1'3   |
| Esa'Ala         | eP                | 12 00 | 45                | eS  | 01 43    |       |       |
| Port Moresby    | eP                | 01 17 |                   | eS  | 02 39    | 855   | 7'7   |
| Honiara         | eP                |       | 25.5              | eS  | 59.9     | 900   | 8'1   |
| Charters Towers | iP                | 03 19 | 8                 | 1S  | 06 31    | 1870  | 16'8  |
| Luganville      | eIP               |       | 28.3              |     |          | 1930  | 17'4  |
| Koumac          | iP                |       | 45.6 <sup>D</sup> |     |          | 2120  | 19'1  |
| Ouanaham        | eIP               | 04 02 | 6                 |     |          | 2330  | 21'0  |
| Nouméa          | iP                |       | 15.1 <sup>D</sup> |     |          | 2410  | 21'7  |
| Brisbane        | iP                |       | 24.0              |     |          | 2510  | 22'6  |
| Warramunga      | eP                |       | 34                |     |          | 2655  | 23'9  |
| Canberra        | eP                | 05 41 | 0                 |     |          | 3420  | 30'8  |
| Tarraleah       | eP                | 06 41 | 0                 |     |          | 4220  | 33'0  |
| Tasmania Univ.  | eP                |       | 47.0              |     |          | 4270  | 37'4  |
| Meekatharra     | iP                |       | 57.0 <sup>D</sup> |     |          |       |       |
| College         | eP                | 11 27 | 0                 |     |          | 9070  | 81'6  |
| Gilmore Creek   | eP                |       | 39.6              |     |          | 9080  | 81'7  |
| Qietta          | eP                | 12 17 | 4 <sup>C</sup>    |     |          |       |       |
| Eureka          | eP                |       | 37.5              |     |          | 10390 | 93'5  |
| Blue M.         | eP                |       | 37.8              |     |          | 10310 | 92'8  |
| Glamis          | P                 | 13 05 |                   |     |          | 10455 | 94'1  |
| Uinta Basin     | e(DP)             |       | 23.8              |     |          |       |       |
| Bangui          | ePKP <sub>1</sub> | 18 40 | 8                 | 1PP | 21 37.4  |       |       |
| Ifrane          | PKP               |       | 49.5              | e   | 19 15    | 16110 | 145'0 |
| Averroes        | ePKP              | 19 04 |                   | eM  | 16       |       |       |
| Kosan Boka      | PKP <sub>2</sub>  |       | 46.3              |     |          | 17570 | 158'1 |

Inscrit à Lonorore - Tonto Forest.

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Région des Iles Açores

41°1 N ; 29°2 W ; h = 33<sup>km</sup> ; H = 12<sup>h.26<sup>mn</sup>05<sup>s.</sup></sup>(CGS)

M. = 5.6(Bangui); 4.6(Dugway - CGS); 4.5(Wichita M.); 4.1(Tonto Forest).

|            |    |       |                      |  |  |      |      |
|------------|----|-------|----------------------|--|--|------|------|
| Ifrane     | P  | 12 30 | 44                   |  |  | 2290 | 20'6 |
| Garchy     | iP |       | 31 17.5              |  |  |      |      |
| Resolute   | eP |       | 34 13.5 <sup>C</sup> |  |  | 4930 | 44'4 |
| Mould Bay  | eP |       | 35 02.0              |  |  | 5610 | 50'5 |
| Wichita M. | eP |       | 26.7                 |  |  | 5980 | 53'8 |

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|              |    |            |      |      |
|--------------|----|------------|------|------|
| Edmonton     | eP | 12 35 37.0 | 6130 | 55.2 |
| Bangui       | iP | 44.6       | 6255 | 56.3 |
| Dugway       | eP | 36 16.4    | 6770 | 60.9 |
| Blue M.      | eP | 20.0       | 6820 | 61.4 |
| Tonto Forest | eP | 31.7       | 7000 | 63.0 |
| La Paz       | eP | 37 02      |      |      |
| Penas        | eP | 04.8       |      |      |

Inscrit à Uinta Basin.

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Nouvelles Hébrides (Ile Espiritu Santo)

15°7 S ; 167°0 E ; H = 13<sup>h</sup>.18<sup>mn</sup>35<sup>s</sup>. (Nouméa)

M. = 4.0 (Nouméa)

Ressenti IV à Luganville.

|            |     |                      |    |            |
|------------|-----|----------------------|----|------------|
| Luganville | eP  | 13 18 41.5           |    |            |
| Lonorore   | iP  | 53.9                 |    |            |
| Port Vila  | eP  | 19 11.7 <sup>C</sup> | 1S | 13 19 37.5 |
| Quanaham   | eIP | 43.4                 |    |            |
| Koumac     | iP  | 54.3 <sup>C</sup>    | 1S | 20 57      |
| Nouméa     | iP  | 20 09.1 <sup>C</sup> | 1S | 21 21.5    |

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Région des Iles Acores.

41°1 N ; 29°3 W ; h = 33<sup>km</sup> ; H = 13<sup>h</sup>.55<sup>mn</sup>32<sup>s</sup>. (CGS)

M. = 5.3 (Bangui) ; 4.3 (CGS - Dugway) ; 4.2 (Wichita M.) ; 3.6 (Tonto Forest).

|              |    |                      |      |           |
|--------------|----|----------------------|------|-----------|
| Resolute     | eP | 14 03 41.0           | 4930 | 44.4      |
| Mould Bay    | eP | 04 28.0              | 5620 | 50.6      |
| Wichita M.   | eP | 48.2                 | 5970 | 53.7      |
| Bangui       | iP | 05 11.9 <sup>D</sup> | 1PP  | 1407 14.7 |
| Uinta Basin  | eP | 28.7                 | 6244 | 56.3      |
| Newport      | eP | 33.0                 | 6620 | 59.6      |
| Dugway       | eP | 43.9                 | 6770 | 60.9      |
| Blue M.      | eP | 48.1                 | 6820 | 61.4      |
| Tonto Forest | eP | 59.0                 | 7000 | 63.0      |

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Région des Iles Açores

41° 1 N ; 29° 4 W ; h = 33<sup>km</sup> ; H = 14<sup>h.10<sup>mn</sup>36<sup>s.</sup></sup> (CGS)

M. = 5.1 (Bangui) ; 4.5 (Dugway) ; 4.4 (CGS) ; 4.3 (Uinta Basin - Wichita M.) ;  
4.1 (Tonto Forest)

|              |    |            |      |      |
|--------------|----|------------|------|------|
| Resolute     | eP | 14 18 44.5 | 4930 | 44.4 |
| Mould Bay    | eP | 19 32.0    | 5610 | 50.5 |
| Wichita M.   | eP | 54.0       | 5955 | 53.6 |
| Edmonton     | eP | 20 07.0    | 6120 | 55.1 |
| Bangui       | iP | 16.4       | 6270 | 56.4 |
| Uinta Basin  | eP | 25.2       | 6510 | 58.6 |
| Newport      | eP | 37.0       | 6610 | 59.5 |
| Dugway       | eP | 46.3       | 6756 | 60.8 |
| Blue M.      | eP | 50.8       | 6810 | 61.3 |
| Tonto Forest | eP | 21 02.4    | 6990 | 62.9 |

inscrit à Uinta Basin.

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Région des Iles Açores. H = 15<sup>h.09.9<sup>mn</sup></sup>

|                   |    |            |    |            |
|-------------------|----|------------|----|------------|
| Ponta Delgada     | Pn | 15 10 49.8 | Sn | 15 11 35.7 |
| Angra do Heroísmo | S  | 11 03.2    |    |            |

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Iles Fidji.

16° 2 S ; 178° 1 E ; h = 21<sup>km</sup> ; H = 16<sup>h.41<sup>mn</sup>27.1<sup>s.</sup></sup> (CGS)

M. = 6.2 (College) ; 6.0 - 6.2 (Berkeley) ; 5.9 (Lembang ; South Pole) ;  
5.8 (Rabaul) ; 5.7 (Palmer - Dugway - Shillong) ; 5.6 (Tucson -  
CGS - Tonto Forest) ; 5.5 (Port Moresby - Mt. Tsukuba) ; 5.4 (Uinta Basin -  
Albuquerque - Wichita M.) ; 5.2 (Eureka) ; 4.8 (Blue M.)

|            |    |                         |    |          |      |
|------------|----|-------------------------|----|----------|------|
| Lonorore   | iP | 16 43 47.6 <sup>C</sup> |    | 1065     | 9.6  |
| Afiamaçu   | eP | 49                      | iS | 16 45 32 | 10.0 |
| Port Vila  | iP | 50.3 <sup>D</sup>       |    | 1055     | 9.5  |
| Luganville | iP | 44 04.6 <sup>C</sup>    |    | 1175     | 10.6 |
| Ouanaham   | iP | 12.6 <sup>D</sup>       |    | 1250     | 11.3 |
| Nouméa     | iP | 30.6 <sup>D</sup>       | i  | 49 07    | 13.6 |
| Koumac     | iP | 46.4 <sup>D</sup>       |    | 1535     | 13.8 |
| Honiara    | iP | 45 50.9 <sup>C</sup>    | iS | 31       | 18.9 |
| Onerahi    | eP | 46 02                   | eS | 50 25    | 23.5 |
| Rarotonga  | eP | 15                      | eS | 50 24    | 23.5 |
| Karapiro   | iP | 20.9                    |    | 2420     | 21.8 |
| Wellington | P  | 50.5                    | eS | 51 24    | 25.1 |

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|                 |    |       |                   |      |       |         |      |      |
|-----------------|----|-------|-------------------|------|-------|---------|------|------|
| Brisbane        | iP |       |                   | 1S   |       |         |      |      |
| Esa'Ala         | eP | 16 47 | 01.9              |      | 16 51 | 41      | 2890 | 26.0 |
| Keravat         | eP |       | 13                |      |       |         | 3035 | 27.3 |
| Rabaul          | eP |       | 15 <sup>D</sup>   |      |       |         | 3135 | 28.2 |
| Charters Towers | iP |       | 17.5 <sup>D</sup> | 1S   | 52    | 08      | 3120 | 28.1 |
| Monowai         | eP |       | 41.7              | 1S   |       | 36      | 3390 | 30.5 |
| Papeete Orston  | iP |       | 42                |      |       |         | 3420 | 30.8 |
| Papeete         | P  |       | 43.4              |      |       |         | 3430 | 30.9 |
| Port Moresby    | iP |       | 44.6              |      |       |         | 3430 | 30.9 |
| Canberra        | eP |       | 44.8              | eS   |       | 52      | 3430 | 30.9 |
| Toolangi        | iP |       | 57                | ePP  | 49    | 07      | 3580 | 32.2 |
| Adelaide        | eP | 48    | 27.6              | eS   | 54    | 10.0    | 3970 | 35.7 |
| Warramunga      | iP | 49    | 02.0 <sup>D</sup> | 1S   | 55    | 12      | 4420 | 39.8 |
| Giam            | eP |       | 15.5 <sup>C</sup> | 1    | 50    | 53.5    | 4630 | 41.7 |
| Hawai Volc.Obs. | eP |       | 36.0              |      |       |         | 4910 | 44.2 |
| Honolulu        | P  |       | 37.0              | e(S) | 56    | 25.0    | 4890 | 44.0 |
| Darwin          | eP |       | 40.0              |      |       |         | 4900 | 44.1 |
| Kalgoorlie      | iP |       | 50.0              |      |       |         | 5100 | 45.9 |
| Meeekatharra    | iP | 50    | 46.1 <sup>D</sup> |      |       |         | 5935 | 53.4 |
| Terre Adélie    | iP | 51    | 05.2 <sup>D</sup> |      |       |         | 6220 | 56.0 |
| Davao           | eP |       | 06.0              |      |       |         | 6245 | 56.2 |
| Mundaring       | eP |       | 13.8              | 1S   | 59    | 00.0    | 6320 | 56.9 |
| Scott Base      | P  |       | 18                | S    |       |         | 6440 | 57.9 |
| Kyosumi         | eP |       | 47.5              |      | 17    | 00 18.0 | 6880 | 61.9 |
| Mt. Tsukuba     | eP |       | 54.9              |      |       |         | 6955 | 62.6 |
| Dodaira         | eP |       | 56.2              |      |       |         | 7030 | 63.3 |
| Oishiyama       | eP |       | 58.5              |      |       |         | 7080 | 63.7 |
| Matsushiro      | P  | 52    | 02.0              |      |       |         | 7170 | 64.5 |
| Baguio          | eP |       | 04                | 1S   |       | 50      | 7180 | 64.6 |
| Abuyama         | eP |       | 05.0              | eS   | 01    | 00.0    | 7270 | 65.4 |
| Shiraki         | eP |       | 07.3              |      |       |         | 8215 | 64.9 |
| Aru             | iP |       | 17.0              |      |       |         | 7380 | 66.4 |
| Adak            | P  |       | 22.0 <sup>C</sup> | S    |       | 29.0    | 7645 | 68.8 |
| Byrd            | iP |       | 25.0              |      |       |         | 7555 | 68.0 |
| Lembang         | iP |       | 34.2              |      |       |         | 7710 | 69.4 |
| Mimiy           | iP |       | 36.5              |      |       |         | 7710 | 69.4 |
| South Pole      | iP |       | 50.0              | eS   | 02    | 17.0    | 8145 | 73.3 |
| Hong Kong       | iP | 53    | 01.8              |      |       |         | 8210 | 73.9 |
| Mt. Hamilton    | eP |       | 03.0              | 1S   |       | 36.0    | 8155 | 73.4 |
| Ukiah           | eP |       | 24.2 <sup>C</sup> | e    | 16    | 53 43   | 8645 | 77.8 |
| Priest          | eP |       | 25.4              |      |       |         | 8630 | 77.7 |
| San Luis Dam    | iP |       | 25.5 <sup>C</sup> | e    |       | 43      | 8645 | 77.8 |
| Berkeley        | P  |       | 25.6 <sup>D</sup> |      |       |         | 8655 | 77.9 |
| Big Mountain    | eP |       | 26.0 <sup>D</sup> | S    | 17    | 03 24   | 8620 | 77.6 |
| Pasadena        | eP |       | 27.0              |      |       |         | 8710 | 78.4 |
| Jamestown       | eP |       | 29                | 1S   |       | 03 33   | 8730 | 78.6 |
| Oroville        | iP |       | 30.0 <sup>C</sup> | e    | 16    | 53 43   | 8770 | 78.9 |
| Mineral         | eP |       | 30.6              |      |       |         | 8780 | 79.0 |
| Sparrevohn      | eP |       | 33.2 <sup>C</sup> | 1    |       | 50      | 8815 | 79.3 |
| Corvalis        | eP |       | 35.2              |      |       |         | 8880 | 79.9 |
| Palmer          | eP |       | 44.4              |      |       |         | 8955 | 80.6 |
| Mts Sheep Creek | eP |       | 45.3              |      |       |         | 9090 | 81.8 |
| Longmire        | iP |       | 50.7              |      |       |         | 9170 | 82.5 |
|                 |    |       | 51.0              | eS   | 17    | 04.2--  | 9180 | 82.6 |

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|                   |                   |       |                   |       |       |         |       |       |
|-------------------|-------------------|-------|-------------------|-------|-------|---------|-------|-------|
| Eureka            | iP                | 16 53 | 51.6              |       |       |         | 9190  | 82.7  |
| Tucson            | eP                |       | 55.0              | e(S)  | 17 04 | 24.0    | 9270  | 83.4  |
| Tonto Forest      | eP                |       | 55.8              | ePP)  | 16 57 | 04.6    | 9310  | 83.8  |
| Black Rapids      | eP                |       | 57.9              |       |       |         | 9370  | 84.3  |
| Blue M.           | eP                |       | 58.1              |       |       |         | 9380  | 84.4  |
| Mawson            | iP                |       | 58.7              | eS    | 17 04 | 27.0    | 9370  | 84.3  |
| Tanana            | eP                | 54    | 00.5              |       |       |         | 9380  | 84.4  |
| Glen Canyon       | eP                |       | 00.5              | i     | 16 54 | 10.7    | 9410  | 84.7  |
| College           | iP                |       | 00.6              | iS    | 17 04 | 30.0    | 9445  | 85.0  |
| Pedro Dome        | eB                |       | 01.1              |       |       |         | 9455  | 85.1  |
| Dugway            | eP                |       | 03.1              |       |       |         | 9470  | 85.2  |
| Salt Lake City    | eP                |       | 06.4              | eL    |       | 21 31.9 | 9570  | 86.1  |
| Presa Infiernillo | eP                |       | 07                |       |       |         | 9540  | 85.9  |
| Newport           | eP                |       | 09.0              |       |       |         | 9680  | 86.2  |
| Nordman           | eP                |       | 09.0              |       |       |         | 9600  | 86.4  |
| Uinta Basin       | eP                |       | 14.8              | eS    |       | 05 02.0 | 9720  | 87.5  |
| Albuquerque       | eP                |       | 16.8              | e     | 16 54 | 19.5    | 9745  | 87.7  |
| Hungry Horse      | eP                |       | 16.9              |       |       |         | 9780  | 88.0  |
| Flaming Gorge     | iP                |       | 17.0 <sup>C</sup> |       |       |         | 9755  | 87.8  |
| Butte             | eP                |       | 17.6              | e     | 17 05 | 05.4    | 9770  | 87.7  |
| Nat. Univ. Mexico | eP                |       | 23                | iS    |       | 04 57   | 9845  | 88.6  |
| Port Blair        | eP                |       | 23                | iS    |       | 05 07   | 9870  | 88.9  |
| Tacubaya          | eP                |       | 25                |       |       |         | 9855  | 88.7  |
| Edmonton          | eP                |       | 29.0              |       |       |         | 10000 | 90.0  |
| Vista Hermosa     | iP                |       | 38.5              |       |       |         | 10025 | 90.2  |
| Chittagong        | eP                |       | 43                |       |       |         | 10300 | 92.7  |
| Shillong          | iP                |       | 43.5              |       |       |         | 10400 | 93.6  |
| Wilchita M.       | eP                |       | 43.7              | ePP   | 16 58 | 31.4    | 10410 | 93.7  |
| Tulsa             | eP                |       | 56.0              |       | 17 05 | 36      | 10700 | 96.3  |
| Coppermine        | eP                |       | 59.5              |       |       |         | 10720 | 96.5  |
| Manhattan         | eP                | 55    | 01.0              |       |       |         | 10720 | 96.5  |
| Mould Bay         | eP                |       | 09.0              |       |       |         | 11045 | 99.4  |
| Madras            | eP                |       | 18                |       |       |         | 11225 | 101.0 |
| La Paz            | eP                |       | 36                | SKS   |       | 06 32   | 11895 | 107.1 |
| Bogota            | PKP               | 59    | 51.5              | e     |       | 09 40.0 | 12045 | 108.4 |
| New Dehli         | PP                | 17 00 | 06.0              | e     |       | 30.0    | 11890 | 107.0 |
| Qetta             | ePKP              |       | 11.0 <sup>D</sup> |       |       |         | 12900 | 116.1 |
| San Juan          | PKP               |       | 23.5              | e     | 07    | 12.0    | 13210 | 118.9 |
| Shiraz            | P                 |       | 33.2              |       |       |         | 14235 | 128.3 |
| Kajaani           | iPKP              |       | 33.4              |       |       |         | 14225 | 128.0 |
| Téhéran           | eP                |       | 40                |       |       |         | 14330 | 129.0 |
| Nurmi jaerwi      | iPKP              |       | 41.0              |       |       |         | 14645 | 131.8 |
| Tabriz            | ePKP              |       | 43                | eISKP | 04    | 14      | 14720 | 132.5 |
| Bilawayo          | ePKP              |       | 45                |       |       |         | 14785 | 133.1 |
| Addis Ababa       | iPKP              |       | 50.6              |       |       |         | 15520 | 139.7 |
| Karoi             | e(PKP)            |       | 57                |       |       |         | 14975 | 134.8 |
| Niedzica          | ePKP              |       | 58.1              |       |       |         | 15805 | 142.3 |
| Ksara             | iPKP              |       | 59                | iSKS  | 08    | 03      | 15755 | 141.8 |
| Jérusalem.        | ePKP              |       | 59                | i     | 03    | 30.5    | 15890 | 143.0 |
| Collm             | ePKP <sub>1</sub> | 01    | 00                |       |       |         | 15890 | 143.0 |
| Pruhonice         | ePKP              |       | 00                |       |       |         | 15980 | 143.6 |
| Istanbul UTI      | ePKP              |       | 01                |       |       |         | 15955 | 143.6 |
| Wien              | ePKP              |       | 02                |       |       |         | 16080 | 144.7 |
| Moxa              | ePKP              |       | 02                |       |       |         | 16000 | 144.0 |

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|                   |                      |                   |                   |                    |       |       |
|-------------------|----------------------|-------------------|-------------------|--------------------|-------|-------|
| Bensberg          | e(PKP <sub>1</sub> ) | 17 01 02.8        | LR                | 17 52 --           | 16070 | 144.6 |
| Broken Hill       | e(PKP)               | 03                |                   |                    | 15250 | 137.3 |
| Kasperské Hory    | e(PKP)               | 03.2              |                   |                    | 16090 | 144.8 |
| Erlangen          | ePKP <sub>1</sub>    | 03.7              | e                 | 02 47.6            | 16105 | 144.9 |
| Beograd           | ePKP                 | 05.9              |                   |                    | 16200 | 145.8 |
| Sada Bandeira     | PKP                  | 06.7              |                   |                    | 16170 | 145.5 |
| Valsamata         | ePKP <sub>1</sub>    | 07.1              |                   |                    | 16720 | 150.5 |
| Stuttgart         | ePKP                 | 07.9              |                   |                    | 16255 | 146.5 |
| Buhlerhohe        | ePKP                 | 08                |                   |                    | 16285 | 146.6 |
| Bratislava        | ePKP                 | 08.6              | ei                | 01 56.6            | 16055 | 144.5 |
| Ljubljana         | ePKP                 | (09)              |                   |                    | 16360 | 147.2 |
| Luxembourg        | PKP                  | 09                |                   |                    | 16230 | 156.1 |
| Helwan            | iPKP                 | 09                | i                 | 13                 | 16300 | 146.7 |
| Fürstenfeldbruck  | e(PKP <sub>1</sub> ) | 09                | iPKP <sub>2</sub> | 13                 | 16270 | 146.4 |
| Uccle             | PKP                  | 10                | e                 | 23 19              | 16130 | 145.2 |
| Strasbourg        | ePKP <sub>1</sub>    | 10                | eISS              | 42                 | 16305 | 146.7 |
| Champ du Feu      | e(PKP <sub>1</sub> ) | 10.2              |                   |                    | 16335 | 147.0 |
| Ponta Delgada     | PKP <sub>1</sub>     | 10.7              | PP                | 04 54              | 16870 | 150.0 |
| Paraskevi         | ePKP <sub>1</sub>    | 11.1              |                   |                    | 16260 | 146.3 |
| Haudompré         | e(PKP <sub>1</sub> ) | 11.6              |                   |                    | 16395 | 147.6 |
| Folinigre         | e(PKP <sub>1</sub> ) | 11.6              |                   |                    | 16390 | 147.5 |
| St. Sauveur       | e(PKP <sub>1</sub> ) | 12.4              |                   |                    | 16419 | 147.7 |
| Besançon          | ePKP <sub>1</sub>    | 13                | ei                | 01 30 <sup>C</sup> | 16485 | 148.4 |
| Gorrón            | e(PKP <sub>1</sub> ) | 13.0              |                   |                    | 16430 | 147.9 |
| Basel             | ePKP                 | (14)              |                   |                    | 16420 | 147.8 |
| Le Pertre         | e(PKP <sub>1</sub> ) | 14.0              |                   |                    | 16470 | 148.2 |
| Zagreb            | PKP                  | 14.0              |                   |                    | 16320 | 146.9 |
| Trieste           | ePKP <sub>1</sub>    | 14.3              | iSS               | 24.0-              | 16420 | 147.8 |
| Garchy            | iPKP                 | 14.5 <sup>D</sup> | i                 | 01 15.7            | 16525 | 148.7 |
| Lanslevillard     | ePKP <sub>1</sub>    | 15                | ei                | 45.9               | 16675 | 150.1 |
| Sommée Lormes     | e(PKP <sub>1</sub> ) | 15.2              |                   |                    | 16515 | 147.7 |
| St. Saulge        | e(PKP <sub>1</sub> ) | 15.8              |                   |                    | 16540 | 148.8 |
| Les Bateaux       | e(PKP <sub>1</sub> ) | 15.8              |                   |                    | 16545 | 148.9 |
| Athènes           | ePKP <sub>1</sub>    | 16.0              |                   |                    | 16525 | 148.7 |
| Vamos             | ePKP                 | 17.2              |                   |                    | 16650 | 149.9 |
| Caracas           | ePP                  | 18.5              |                   |                    | 13965 | 116.7 |
| Toulx Ste Croix   | e(PKP <sub>1</sub> ) | 18.7              |                   |                    | 16645 | 149.8 |
| Roselend          | ePKP <sub>1</sub>    | 19                | ei                | 26                 | 16640 | 149.7 |
| Monteynard        | e(PKP <sub>1</sub> ) | 20                |                   |                    | 16735 | 150.6 |
| l'Aquila          | ePKP                 | 20                | e(SS)             | 25 00              | 16755 | 150.8 |
| Roma              | iPKP                 | 20.2              | ePP               | 05 04              | 16849 | 151.5 |
| Isola             | iPKP                 | 21.9              |                   |                    | 16790 | 151.1 |
| La Mourre         | e(PKP <sub>1</sub> ) | 22.0              |                   |                    | 16890 | 152.0 |
| Archignac         | e(PKP <sub>1</sub> ) | 22.4              |                   |                    | 16795 | 151.2 |
| St. Paul en Foret | e(PKP <sub>1</sub> ) | 22.5              |                   |                    | 16860 | 151.8 |
| La Frestale       | e(PKP <sub>1</sub> ) | 22.5              |                   |                    | 16805 | 151.3 |
| Le Pouchou        | e(PKP <sub>1</sub> ) | 22.9              |                   |                    | 16830 | 151.5 |
| Bangui            | iPKP <sub>1</sub>    | 24.4              | iPP               | 03.1               | 17410 | 156.7 |
| Vouglans          | ePKP <sub>1</sub>    | 25                | ei                | 01 29.0            | 16580 | 149.2 |
| Clermont          | ePKP <sub>1</sub>    | 25.5              | i                 | 02 04              | 16690 | 150.2 |
| Toledo            | e(PKP <sub>1</sub> ) | 30.0              | ePKP <sub>2</sub> | 01 54.5            | 17370 | 156.3 |

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|          |      |          |    |          |       |       |
|----------|------|----------|----|----------|-------|-------|
| Rabat    | ePKP | 17 01 30 | LM | 18 02 -- | 17970 | 161'7 |
| Ifrane   | ePKP | 33       | M! | 17 06 10 | 18055 | 162'5 |
| Rabat Z  | ePKP | 34       |    |          |       |       |
| Averroes | eP   | 37       |    | 02 19    | 18030 | 162'5 |
| Lamto    | PKP  | 39.4     |    |          | 18845 | 169'0 |

Inscrit à Uppsala - Uméa - Hermanus - Pavia - Antofagasta  
 Monaco - Witteween - Messina - Penas - Quito - Warsaw  
 Campulung - Kevo - Bombay.

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Région des Iles Fidji.

18°9 S ; 178°0 W ; H = 626 km ; H = 17h.34<sup>mm</sup>05.4<sup>s</sup>. (CGS)

M. = 5.5(Lembang); 4.7(Gilmore Creek); 4.6(Bozeman SSS); 4.5(Wichita M. - CGS - Albuquerque - Tucson); 4.3(Uinta Basin); 4.1(Eureka - Tonto Forest); 3.8(Blue M.).

|                 |    |                      |    |          |       |      |
|-----------------|----|----------------------|----|----------|-------|------|
| Afiamaalu       | iP | 17 36 03 3           | eS | 17 37 36 | 870   | 7'8  |
| Port Vila       | iP | 55.0                 |    |          | 1445  | 13'0 |
| Lonorore        | iP | 37 00.3 <sup>D</sup> |    |          | 1500  | 13'5 |
| Ouanaham        | iP | 02.5 <sup>C</sup>    |    |          | 1555  | 14'0 |
| Luganville      | iP | 08.8 <sup>D</sup>    |    |          | 1620  | 14'6 |
| Nouméa          | iP | 13.9 <sup>C</sup>    |    |          | 1655  | 14'9 |
| Koumac          | iP | 29.3 <sup>D</sup>    |    |          | 1855  | 16'7 |
| Karapiro        | P  | 58                   |    |          | 2190  | 19'7 |
| Papeete         | iP | 39 02.1              |    |          | 2330  | 21'0 |
| Papenoo         | iP | 03.1                 |    |          | 3020  | 27'2 |
| Brisbane        | iP | 10.5                 |    |          | 3120  | 28'1 |
| Monowai         | P  | 21                   |    |          |       |      |
| Tiputa          | iP | 21.7                 |    |          | 3255  | 29'3 |
| Canberra        | eP | 56                   |    |          | 3710  | 33'4 |
| Charters Towers | iP | 57.6                 |    |          | 3730  | 33'6 |
| Toolangi        | eP | 40 23.0              |    |          | 4090  | 36'8 |
| Tarraleah       | eP | 34.0                 |    |          | 4220  | 38'0 |
| Warramunga      | eP | 41 26 <sup>D</sup>   |    |          | 4980  | 44'8 |
| South Pole      | eP | 44 24.6              |    |          | 7910  | 71'2 |
| Lembang         | iP | 35.0                 |    |          | 8110  | 73'0 |
| Woody           | P  | 45 03                |    |          | 8870  | 78'0 |
| Oroville        | eP | 04.5                 |    |          | 8720  | 78'5 |
| Eureka          | iP | 23.8                 |    |          | 9110  | 82'0 |
| Tucson          | eP | 24.0                 |    |          | 9110  | 82'0 |
| Tonto Forest    | eP | 26.8                 |    |          | 9180  | 82'6 |
| Blue M.         | eP | 33.3                 |    |          | 9345  | 84'1 |
| College         | eP | 44.0                 |    |          | 9630  | 86'7 |
| Gilmore Creek   | eP | 44.7                 |    |          | 9845  | 86'8 |
| Albuquerque     | iP | 45.0                 |    |          | 9600  | 86'4 |
| Uinta Basin     | eP | 46.3                 |    |          | 9630  | 86'7 |
| Bozeman SSS     | eP | 51.5                 |    |          | 9770  | 87'9 |
| Wichita M.      | eP | 48 11.4              |    |          | 10255 | 92'3 |

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|                  |                    |                         |                   |          |      |                  |                  |
|------------------|--------------------|-------------------------|-------------------|----------|------|------------------|------------------|
| Quetta           | iPKP               | 17 51 48.3 <sup>C</sup> |                   |          |      |                  |                  |
| Oulu             | ePKP               | 52 07                   |                   |          |      | 13390            | 120.5            |
| Kajaani          | iPKP               | 07.6                    |                   |          |      | 14320            | 131.6            |
| Sodankylä        | ePKP               | 08                      |                   |          |      |                  |                  |
| Uddeholm         | iPKP               | 11.7                    |                   |          |      |                  |                  |
| Bulawayo         | ePKP               | 12                      |                   |          |      | 14800            | 133.2            |
| Nurmi jaerwi     | iPKP               | 15.2                    |                   |          |      | 15045            | 135.4            |
| Karoi            | ePKP               | 17                      |                   |          |      | <del>15020</del> | <del>135.2</del> |
| Addis Ababa      | iPKP               | 31.5                    |                   |          |      | 15890            | 143.0            |
| Collm            | iPKP               | 33                      |                   |          |      | 16280            | 146.5            |
| Kasperské Hory   | ePKIKP             | 38                      |                   |          |      | 16490            | 148.4            |
| Niedzica         | eiPKP              | 38.1                    |                   |          |      |                  |                  |
| Pruhonice        | eiPKP              | 40.7 <sup>D</sup>       |                   |          |      | 16380            | 147.4            |
| Moxa             | iPKP               | 41.5                    |                   |          |      | 16380            | 147.4            |
| Bensberg         | iPKP               | 41.6                    | e                 | 17 52 46 |      | 16420            | 147.8            |
| Jérusalem        | iPKP               | 42.0                    |                   |          |      | 16390            | 147.5            |
| Erlangen         | ePKP               | 44.0                    |                   |          |      |                  |                  |
| Garchy           | iPKP               | 44.6                    | i                 |          | 51.5 |                  |                  |
| Fürstenfeldbruck | ePKP <sub>1</sub>  | 46                      | e                 |          | 52   |                  |                  |
| Polinière        | eiPKP <sub>1</sub> | 47.4                    |                   |          |      | 16690            | 150.2            |
| St. Sauveur      | eiPKP <sub>1</sub> | 47.7                    |                   |          |      | 16710            | 150.4            |
| Gorron           | eiPKP <sub>1</sub> | 48.2                    |                   |          |      | 16720            | 150.5            |
| Le Pertre        | eiPKP <sub>1</sub> | 49.3                    |                   |          |      |                  |                  |
| Sommée Lormes    | eiPKP <sub>1</sub> | 50.6                    |                   |          |      | 16855            | 151.7            |
| St. Saulge       | eiPKP <sub>1</sub> | 51.0                    |                   |          |      | 16880            | 151.9            |
| Les Buteaux      | eiPKP <sub>1</sub> | 51.5                    |                   |          |      |                  |                  |
| Toulx Ste Croix  | eiPKP <sub>1</sub> | 53.2                    |                   |          |      |                  |                  |
| Bangui           | iPKP <sub>1</sub>  | 53.4 <sup>D</sup>       | iPKP <sub>1</sub> | 55 13.4  |      | 17590            | 158.9            |
| Lamto            | PKP                | 53 00.4                 |                   |          |      | 18410            | 165.7            |
| Tamanrasset      | iPKP               | 07 <sup>D</sup>         |                   |          |      | 19430            | 174.9            |

Inscrit à Strasbourg - De Bilt.

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Données insuffisantes.

|              |    |                   |
|--------------|----|-------------------|
| Woody        | P  | 17 43 18          |
| Priest       | eP | 22.0 <sup>D</sup> |
| Jamestown    | eP | 24.0 <sup>D</sup> |
| Mt. Hamilton | eP | 34.8 <sup>D</sup> |
| Berkeley     | eP | 24.8 <sup>D</sup> |
| Mineral      | eP | 28.2 <sup>C</sup> |

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Région des Iles Açores.

41.2 N ; 29.4 W ; h = 33<sup>km</sup> ; H = 18<sup>h.46mn10s.</sup> (CGS)

M. = 5.0 (Bangui) ; 4.3 (Dugway - CGS) ; 4.0 (Blue M.) ; 3.9 (Tonto Forest).

Mould Bay eP 18 55.06.0 5600 50.4



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|              |     |            |  |       |       |
|--------------|-----|------------|--|-------|-------|
| Bangui       | eP  | 18 55 06.0 |  | 5600  | 50.4  |
| Dugway       | eP  | 56 21.2    |  | 6755  | 60.8  |
| Blue M.      | eP  | 23.2       |  | 6815  | 61.3  |
| Tonto Forest | eP  | 36.1       |  | 6990  | 62.9  |
| South Pole   | PKP | 19 04 46.2 |  | 14555 | 131.0 |

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Nouvelle Calédonie.

20°0 S ; 165°7 E ; H = 19<sup>h</sup>.06<sup>mn</sup>06<sup>s</sup>. (Nouméa)

|          |    |                         |    |          |  |
|----------|----|-------------------------|----|----------|--|
| Koumac   | 1P | 19 06 34.4 <sup>C</sup> | 1S | 19 06 55 |  |
| Ouanaham | 1P | 40.0 <sup>D</sup>       | 1S | 07 08    |  |
| Nouméa   | 1P | 45.9 <sup>(C)</sup>     | 1S | 16       |  |

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Iles Mariannes.

18°4 N ; 146°5 E ; h = 77<sup>km</sup> ; H = 20<sup>h</sup>.06<sup>mn</sup>48.0<sup>s</sup>. (CGS)

M. = 5.5 (Dugway) ; 5.4 (Newport) ; 5.3 (Mundaring) ; 5.1 (Eureka - Tucson) ; 5.0 (CGS - College) ; 4.9 (Michita M. - Blue M.) ; 4.7 (Tonto Forest) ; 4.5 (Mt. Tsukuba).

|                 |    |                   |    |            |      |      |
|-----------------|----|-------------------|----|------------|------|------|
| Guam            | 1P | 20 08 04.0        | 1S | 20 08 58.0 | 570  | 5.1  |
| Kyosumi         | eP | 10 50.8           |    |            | 1955 | 17.6 |
| Mt. Tsukuba     | eP | 11 01.6           | eS | 14 24.5    | 2070 | 18.6 |
| Dodaira         | 1P | 02.6              | e  | 11 10.3    | 2080 | 18.7 |
| Abuyama         | 1P | 07.8              |    |            |      |      |
| Matsushiro      | P  | 10                | eS | 14 40      | 2170 | 19.5 |
| Rabaul          | eP | 48                |    |            |      |      |
| Rabalanakaia    | 1P | 48.3              |    |            |      |      |
| Wanliss Street  | 1P | 48.3 <sup>D</sup> |    |            |      |      |
| Keravat         | eP | 49.5 <sup>D</sup> |    |            |      |      |
| PortMoresby     | 1P | 12 28.8           |    |            | 3070 | 27.6 |
| Charters Towers | 1P | 14 02             |    |            |      |      |
| Warramunga      | eP | 14.5              | e  | 20 03      |      |      |
| Brisbane        | 1P | 15 04.3           | i  | 16 41.8    | 5100 | 45.9 |
| Lembang         | 1P | 05.0              |    |            | 5090 | 45.8 |
| Shillong        | 1P | 43.8              |    |            | 5645 | 50.8 |
| Meekatharra     | 1P | 52.6 <sup>D</sup> |    |            |      |      |
| Canberra        | eP | 16 03             |    |            |      |      |
| Adélaïde        | 1P | 03.8 <sup>D</sup> |    |            |      |      |
| Kalgoorlie      | 1P | 08.7 <sup>D</sup> |    |            |      |      |
| Chatra          | 1P | 15 <sup>D</sup>   |    |            |      |      |
| Mundaring       | 1P | 33.2 <sup>C</sup> |    |            | 6430 | 57.9 |
| Palmer          | eP | 58.8              |    |            | 6755 | 61.8 |
| Gilmore Creek   | eP | 17 09.1           |    |            | 7045 | 63.4 |
| College         | 1P | 09.2              |    |            | 7020 | 63.2 |

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|              |                   |                      |                   |            |             |
|--------------|-------------------|----------------------|-------------------|------------|-------------|
| New Dehli    | eP                | 20 17 12             |                   |            |             |
| Quetta       | eP                | 18 07.2 <sup>D</sup> |                   |            | 8020 72.2   |
| Mould Bay    | iP                | 12.6 <sup>D</sup>    |                   |            | 8145 73.3   |
| Coppermine   | eP                | 23.8 <sup>D</sup>    |                   |            | 8480 76.3   |
| Longmire     | iP                | 40.0                 |                   |            |             |
| Resolute     | eP                | 47.6 <sup>D</sup>    |                   |            | 8830 79.5   |
| Mineral      | eP                | 48.4 <sup>D</sup>    |                   |            |             |
| Mt. Hamilton | eP                | 53.7 <sup>D</sup>    |                   |            | 8945 80.5   |
| Newport      | iP                | 53.9                 |                   |            | 8955 80.6   |
| Nordman      | iP                | 54.1                 |                   |            | 8955 80.6   |
| San Luis Dam | eP                | 56.2                 |                   |            | 8990 80.9   |
| Jamestown    | eP                | 57.5 <sup>D</sup>    | e                 | 20 19 21.7 | 9030 81.3   |
| Blue M.      | eP                | 58.3                 |                   |            | 9055 81.5   |
| Priest       | eP                | 19 00.0 <sup>D</sup> |                   |            | 9070 81.6   |
| Kevo         | eP                | 04                   |                   |            |             |
| Pasadena     | iP                | 11                   |                   |            | 9345 84.1   |
| Sodankylä    | iP                | 11.2                 |                   |            | 9320 83.9   |
| Eureka       | iP                | 12.8                 |                   |            | 9345 84.1   |
| Butte        | eP                | 13.1                 |                   |            | 9370 84.3   |
| Kajaani      | iP                | 18.5                 |                   |            |             |
| Oulu         | eP                | 19                   |                   |            |             |
| Kiruna       | iP                | 19.8                 |                   |            | 9500 85.5   |
| Dugway       | eP                | 22.7                 |                   |            | 9580 86.2   |
| Uinta Basin  | eP                | 33.8                 | ePP               | 54.8       | 9820 88.4   |
| NurmiJaerwi  | eP                | 34                   |                   |            | 9845 88.6   |
| Tonto Forest | eP                | 39.4                 |                   |            | 9945 89.5   |
| Skalsstugan  | eP                | 44                   |                   |            |             |
| Tucson       | eP                | 44.4                 |                   |            | 10070 90.6  |
| Uppsala      | iP                | 47.3                 |                   |            | 10190 91.7  |
| Berkeley     | eP                | 50.5                 |                   |            |             |
| Uddeholm     | eP                | 57                   |                   |            |             |
| Frobisher    | eP                | 57.0                 |                   |            | 10410 93.7  |
| Wichita M.   | eP                | 20 20.9              | ePP               | 20 38.4    | 10970 98.7  |
| South Pole   | ePKP              | 25 07.9              |                   |            | 12030 108.3 |
| Bangui       | iPKP <sub>1</sub> | 40.2                 | iPKP <sub>1</sub> | 25 49.5    |             |
| Lamto        | PKP               | 26 12.6              |                   |            | 15855 142.7 |
| Penas        | PKP               | 24.1                 |                   |            | 16290 146.6 |
| La Paz       | PKP               | 26.4                 |                   |            | 16330 147.0 |

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Nouvelles Hébrides (Ile Tanna)

20°0 S ; 169°0 E ; H = 21h.10<sup>mn</sup>58s. (Nouméa)

|          |     |            |    |            |
|----------|-----|------------|----|------------|
| Ouanaham | eIP | 21 11 24.7 | 18 | 21 11 45.5 |
| Nouméa   | iP  | 47.8       | 18 | 12 22.5    |
| Koumac   | iP  | 12 02.6    | 18 | 55.5       |

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Italie Centrale.

42° 17' N ; 12° 05' 3 E ; M. = 2° 5 (Roma)

Ressenti III - IV à Rignano Flaminio et à S. Oreste.

Roma e(Pg) 21 17 52.5  
1<sup>a</sup> Aquila e(Pg) 56

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Iles Kermadec.

29° 9 S ; 179° 5 W ; h = 349 km ; H = 21<sup>h</sup>.21<sup>mn</sup>31.6 S. (CGS)  
29° 9 S ; 177° 8 W ; h = 295 km ; H = 21<sup>h</sup>.21<sup>mn</sup>23 S. (URSS)

M. = 7.6 (Wellington) ; 6.9 (Shiraki) ; 6.4 (Baguio - Lembang) ; 6.2 (South Pole) ;  
6.1 (Tucson) ; 6.0 (Berkeley - Oroville - Eureka - Palmer - Gilmore Creek) ;  
5.8 (Bozeman SSS - CGS) ; 5.7 (Mt. Tsukuba - Davao) ; 5.6 (Uinta-  
Basin) ; 5.5 (Golden - Dugway - Blue M.) ; 5.4 (Albuquerque -  
Longmire) ; 5.2 (La Paz - Wichita M.) ; 5.0 (Penas) ; 4.9 (Kipapa -  
Tonto Forest) ; 4.7 (College)

|                 |    |                      |       |          |      |       |
|-----------------|----|----------------------|-------|----------|------|-------|
| Raoul Island    | 1P | 21 22 20             |       |          | 180  | 1° 6  |
| Onerahi         | 1P | 23 26.8              | (S)   | 21 25 19 | 870  | 7° 8  |
| Karapiro        | eP | 39                   | eS    | 19       | 1000 | 9° 0  |
| Wellington      | P  | 24 10                | eS    | 26 18    | 1355 | 12° 2 |
| Nouméa          | 1P | 47.5 <sup>C</sup>    | 1S    | 27 36    | 1630 | 14° 7 |
| Ouanaham        | 1P | 49.3 <sup>C</sup>    |       |          | 1670 | 15° 0 |
| Port Vila       | 1P | 25 05.9 <sup>D</sup> | 1S    | 28 07    | 1830 | 16° 5 |
| Afiamalu        | 1P | 13.6                 | eS    | 11       | 1945 | 17° 5 |
| Koumâc          | 1P | 14.6 <sup>D</sup>    | 1S    | 21.5     | 1930 | 17° 4 |
| Lonorore        | 1P | 24.6 <sup>(D)</sup>  |       |          | 2000 | 18° 0 |
| Monowai         | eP | 25                   | eS    | 36       | 2090 | 18° 8 |
| Luganville      | 1P | 29.7                 |       |          | 2100 | 18° 9 |
| Rarotonga       | P  | 37.5                 |       |          | 2200 | 19° 8 |
| Brisbane        | 1P | 26 22.8              | 1     | 31 42    | 2710 | 24° 4 |
| Canberra        | 1P | 45.6 <sup>D</sup>    | 1S    | 30 58.4  | 3000 | 27° 0 |
| Honiara         | 1P | 52.0                 | eS    | 31 06    | 3110 | 28° 0 |
| Tasmania Univ.  | 1P | 27 05.9 <sup>D</sup> | 1S    | 36.2     | 3280 | 29° 5 |
| Papeete (Orsom) | 1P | 08.6                 |       |          | 3330 | 30° 0 |
| Papeete         | 1P | 09.4                 |       |          | 3330 | 30° 0 |
| Tarraleah       | 1P | 10.4                 | eS eS | 37 04.0  | 3320 | 29° 9 |
| Toolangi        | 1P | 10.6                 | 1S    | 31 42.0  | 3320 | 29° 9 |
| Papeeno         | 1P | 10.8                 |       |          | 3345 | 30° 1 |
| Charters Towers | 1P | 32.8                 | 1S    | 32 15    | 3600 | 32° 4 |
| Tiputa          | 1P | 35.2                 |       |          | 3655 | 32° 9 |
| Esa'Ala         | eP | 48                   | 1S    | 47       | 3800 | 34° 2 |
| Adélaïde        | 1P | 57.9 <sup>D</sup>    | 1S    | 33 04    | 3930 | 35° 4 |
| Rabaul          | eP | 28 09.5 <sup>D</sup> |       |          | 4115 | 37° 0 |
| Rabalanakaia    | eP | 09.5                 |       |          | 4110 | 37° 0 |

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|                   |    |                      |     |          |      |       |      |
|-------------------|----|----------------------|-----|----------|------|-------|------|
| Wanliss Street    | eP | 21 28 10             |     |          |      | 4110  | 37°0 |
| Keravat           | 1P | 11 <sup>D</sup>      | iS  | 21 33 30 |      | 4110  | 37°0 |
| Port Moresby      | 1P | 12°0 <sup>D</sup>    | eS  |          | 32   | 4130  | 37°2 |
| Warramunga        | 1P | 53°5 <sup>D</sup>    | i   | 34 51    |      | 4755  | 42°8 |
| Terre Adélie      | 1P | 29 05°3              |     |          |      | 4900  | 44°1 |
| Scott Base        | 1P | 41°8                 | i   | 20°8     |      | 5380  | 46°4 |
| Kalgoorlie        | 1P | 54°1 <sup>D</sup>    |     |          |      | 5605  | 50°4 |
| Meekeatharra      | 1P | 30 20°0 <sup>D</sup> |     |          |      | 6010  | 54°1 |
| Mundaring         | 1P | 23°8 <sup>C</sup>    |     |          |      | 6045  | 54°4 |
| Hawai.Volc.Observ | 1P | 25°3                 |     |          |      | 6030  | 54°3 |
| Honolulu          | 1P | 29°9                 | i   | 31 27°3  |      | 6110  | 55°0 |
| Guam              | eP | 30°0                 | eS  | 37 40°0  |      | 6130  | 55°2 |
| Kipapa            | 1P | 30°2                 | i   | 31 28°0  |      | 6120  | 55°1 |
| Eyrd              | 1P | 33°8                 | 1pP | 47°1     |      | 6180  | 55°6 |
| South Pole        | 1P | 31 05°1              | PP  | 32 21°4  |      | 6690  | 60°2 |
| Davao             | 1P | 31°0                 | eS  | 39 37°5  |      | 7145  | 64°3 |
| Lembang           | 1P | 32 18°5              | eS  | 41 12°5  | 7930 | 71°8  |      |
| Mawson            | 1P | 19°4                 | iS  | 10°6     |      | 8030  | 72°3 |
| Argentine Island  | 1P | 24°0                 |     |          |      | 8100  | 72°9 |
| Baguio            | 1P | 29°0                 | eS  | 26°0     |      | 8200  | 73°8 |
| Kyosumi           | 1P | 36°0                 |     |          |      | 8345  | 75°1 |
| Mt. Tsukuba       | 1P | 41°3                 | eS  | 51°0     |      | 8445  | 76°0 |
| Dodaira           | 1P | 43°1                 |     |          |      | 8470  | 76°2 |
| Oishiyama         | eP | 45°8                 |     |          |      | 8520  | 76°7 |
| Wakaura           | eP | 46°9                 |     |          |      | 8530  | 76°8 |
| Matsushiro        | 1P | 47°6                 | S   | 42 06°0  |      | 8570  | 77°1 |
| Abuyama           | 1P | 48°9                 |     |          |      | 8570  | 77°1 |
| Shiraki           | P  | 55°2                 |     |          |      | 8710  | 78°4 |
| Novo_Lazarevskaya | 1P | 58 <sup>C</sup>      |     |          |      | 8810  | 79°3 |
| Adak              | 1P | 33 11°5              | e   | 52°8     |      | 9055  | 81°5 |
| Youjno_Sakhalinsk | 1P | 25 <sup>D</sup>      |     |          |      | 9310  | 83°8 |
| Petropavlovsk     | 1P | 28 <sup>D</sup>      |     |          |      | 9415  | 84°7 |
| Vladivostok       | 1P | 32 <sup>C</sup>      |     |          |      | 9475  | 85°3 |
| Kentfield         | eP | 34°6                 |     |          |      | 9555  | 86°0 |
| Priest            | eP | 35°4 <sup>D</sup>    | e   | 33 54°5  |      | 9545  | 85°9 |
| Berkeley          | 1P | 35°9 <sup>D</sup>    | PP  | 34 59°0  |      | 9570  | 86°1 |
| Pasadena          | 1P | 36°0                 | eS  | 43 27°0  |      | 9570  | 86°1 |
| Mt. Hamilton      | eP | 36°2 <sup>D</sup>    |     |          |      | 9565  | 86°1 |
| San Luis Dam      | 1P | 36°5 <sup>D</sup>    | eS  | 48°6     |      | 9580  | 86°2 |
| Ukiah             | eP | 38°2                 |     |          |      | 9600  | 86°4 |
| Jamestown         | eP | 40°8 <sup>D</sup>    | e   | 33 57°0  |      | 9690  | 87°2 |
| Arcata            | eP | 41°1 <sup>D</sup>    |     |          |      | 9680  | 87°1 |
| Oroville          | 1P | 42°8                 | eS  | 44 00°2  |      | 9745  | 87°7 |
| Mineral           | eP | 44°4 <sup>D</sup>    | eS  | 06       |      |       |      |
| Presa Infiernillo | 1P | 48 <sup>D</sup>      |     |          |      | 9855  | 88°7 |
| Tucson            | 1P | 54°2                 | e   | 35 18°0  |      | 9990  | 89°9 |
| Corvalis          | eP | 54°6                 |     |          |      | 10010 | 90°1 |
| Big Mountain      | 1P | 57°9                 |     |          |      | 10030 | 90°3 |
| Eureka            | 1P | 57°9                 |     |          |      | 10100 | 90°9 |
| Tonto Forest      | eP | 57°9                 | eS  | 44 30°8  |      | 10090 | 90°7 |

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|----------------|-------|-----|----|----|----|-------|----|----|----|---|-------|-------|
| Flagstaff      | 1P    | 21  | 33 | 59 | 3  | 1S    | 21 | 44 | 36 | 3 | 10110 | 91.0  |
| Tumwater       | 1P    |     | 34 | 02 | 7  |       |    |    |    |   | 10220 | 92.0  |
| Magadan        | P     |     |    | 04 | D  |       |    |    |    |   | 10270 | 92.4  |
| Longmire       | 1P    |     |    | 04 | 2  |       |    |    |    |   | 10270 | 92.4  |
| Glen Canyon    | 1P    |     |    | 04 |    | D     | 51 | 17 | 5  |   | 10230 | 92.1  |
| Sparrevohn     | 1P    |     |    | 05 | 2  |       |    |    |    |   | 10310 | 92.8  |
| Vista Hermosa  | 1P    |     |    | 06 | 5  |       |    |    |    |   | 10260 | 92.3  |
| Port Blair     | 1P    |     |    | 08 |    | 1S    | 44 | 44 |    |   | 10425 | 93.8  |
| Dugway         | eP    |     |    | 08 | 2  |       |    |    |    |   | 10355 | 3.2   |
| Blue M.        | eP    |     |    | 09 | 0  |       |    |    |    |   | 10390 | 93.5  |
| Antofagasta    | eP    |     |    | 09 | 1D | 1SKS  |    | 12 |    |   | 10395 | 93.6  |
| Salt Lake City | eP    |     |    | 12 | 4  |       |    |    |    |   | 10470 | 94.2  |
| Palm er "      | eP    |     |    | 12 | 7  |       |    |    |    |   | 10500 | 94.5  |
| Albuquerque    | 1P    |     |    | 13 | 6  | e     |    | 16 | 0  |   | 10480 | 94.3  |
| Mt SheepCreek  | 1P    |     |    | 16 | 0  |       |    |    |    |   | 10570 | 95.1  |
| Uinta Basin    | 1P    |     |    | 18 | 0  | eSKS1 |    | 19 | 8  |   | 10590 | 95.3  |
| Newport        | 1P    |     |    | 18 | 8  |       |    |    |    |   | 10645 | 95.8  |
| NO r dman      | 1P    |     |    | 19 | 5  |       |    |    |    |   | 10680 | 96.1  |
| Flaming Gorge  | 1P    |     |    | 19 | 7D |       |    |    |    |   | 10645 | 95.8  |
| Huancayo       | eP    |     |    | 24 | 0  |       |    |    |    |   | 10670 | 96.0  |
| Black Rapids   | eP    |     |    | 24 | 2  |       |    |    |    |   | 107.0 | 96.9  |
| Butte          | eP    |     |    | 2  | 2  | e     | 45 | 30 | 0  |   | 107.0 | 96.9  |
| Arequipa       | eP    |     |    | 24 | 8  |       |    |    |    |   | 10755 | 96.8  |
| Hungry Horse   | eP    |     |    | 25 | 7  |       |    |    |    |   | 10830 | 97.5  |
| Bozeman        | 1P    | SSS |    | 26 | 0  | e(SP) | 35 | 48 | 5  |   | 10790 | 97.1  |
| College        | 1P    |     |    | 26 | 9  |       |    |    |    |   | 10855 | 97.7  |
| Gilmore Creek  | 1P    |     |    | 27 | 5  |       |    |    |    |   | 10870 | 97.8  |
| Pedro Dome     | 1P    |     |    | 27 | 6  |       |    |    |    |   | 10880 | 97.9  |
| Golden         | eP    |     |    | 29 | 0  | e     | 46 | 52 | 0  |   | 10845 | 97.6  |
| La Paz         | eP    |     |    | 36 | 5  | SKS   | 44 | 42 | 0  |   | 11045 | 99.4  |
| Wichita M.     | eP    |     |    | 36 | 7  | ePP   | 35 | 57 | 6  |   | 11080 | 99.7  |
| Penas          | eP    |     |    | 36 | 8  | SKS   | 44 | 42 |    |   | 11030 | 99.3  |
| Yakoutsk       | e     |     |    | 39 | D  |       |    |    |    |   | 11140 | 100.3 |
| Edmonton       | eP    |     |    | 41 | 0  |       |    |    |    |   | 11190 | 100.7 |
| Oulan Bator    | 1P    |     |    | 46 |    |       |    |    |    |   | 11295 | 101.7 |
| Bo dajbo       | 1P    |     |    | 54 | D  |       |    |    |    |   | 11495 | 103.5 |
| Tiksi          | 1P    |     | 35 | 09 | D  |       |    |    |    |   | 11935 | 107.4 |
| Coppermine     | PKP   |     | 39 | 12 | 0  |       |    |    |    |   | 12055 | 108.5 |
| Chatra         | 1PKP  |     |    | 15 | C  |       |    |    |    |   | 11725 | 105.5 |
| Kodaikanal     | 1PKP  |     |    | 16 | 1C |       |    |    |    |   | 11810 | 106.3 |
| Mould Bay      | PKP   |     |    | 25 | 0  | i     | 51 | 17 | 0  |   | 12480 | 112.3 |
| Ann Arbor      | PKP   |     |    | 28 | 0  |       |    |    |    |   | 12810 | 113.5 |
| Blacksburg     | PKP   |     |    | 29 | 2  |       |    |    |    |   | 12680 | 114.1 |
| Dehra Dun      | 1PKP  |     |    | 30 | D  |       |    |    |    |   | 12700 | 114.3 |
| New Dehli      | PKP   |     |    | 30 | 0  | e     | 45 | 41 | 0  |   | 12700 | 114.3 |
| Caracas        | PKP   |     |    | 31 | 0D | eI    | 42 | 22 |    |   | 12745 | 114.7 |
| Bogota         | PP    |     |    | 34 | 0  | i     | 45 | 09 | 0  |   | 11720 | 105.7 |
| Resolute       | PKP   |     |    | 34 | 0  |       |    |    |    |   | 13080 | 117.2 |
| Changalane     | PKP   |     |    | 34 | 2  |       |    |    |    |   | 12930 | 116.4 |
| Lahore         | ePKP  |     |    | 36 |    |       |    |    |    |   | 13075 | 117.7 |
| San Juan       | PKP   |     |    | 38 | 5  | 1SKS  |    | 59 | 0  |   | 13190 | 118.7 |
| Mangla         | ePKP  |     |    | 39 | 0  |       |    |    |    |   | 13185 | 118.7 |
| Talgar         | 1PKP1 |     |    | 39 | D  |       |    |    |    |   | 13205 | 118.9 |

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|              |                       |       |       |               |         |       |       |
|--------------|-----------------------|-------|-------|---------------|---------|-------|-------|
| Pretoria     | PKP                   | 21 39 | 39.0  |               |         | 13180 | 118.6 |
| Ottawa       | PKP                   |       | 40.0  |               |         | 13320 | 119.9 |
| Palmer       | PKP                   |       | 40.8  |               |         | 13345 | 120.1 |
| Trinidad     | PKP                   |       | 41.5  |               |         | 13290 | 119.6 |
| Warsak       | PKP                   |       | 42    |               |         | 13425 | 120.8 |
| Karachi      | ePKP                  |       | 42.4  |               |         | 13490 | 121.4 |
| Brébeuf      | iPKP                  |       | 42.7D |               |         | 13480 | 121.3 |
| Frounze      | iPKP <sub>1</sub>     |       | 43    |               |         | 13415 | 120.7 |
| Alert        | PKP                   |       | 45.0  |               |         | 13670 | 123.0 |
| Weston       | PKP                   |       | 45.0  |               |         | 13590 | 122.3 |
| Berlin       | PKP                   |       | 46.9  |               |         | 13645 | 122.8 |
| Bilawayo     | PKP                   |       | 47.0  | e (SKP) 21 42 | 27.0    | 13700 | 123.3 |
| Kheis        | ePKP <sub>1</sub>     |       | 47    |               |         | 13830 | 124.5 |
| Garm         | iPKP <sub>1</sub>     |       | 48    |               |         | 13665 | 123.0 |
| Qietta       | iPKP                  |       | 49.0D | iS            | 49 0.0  | 13700 | 123.3 |
| Tachkent     | iPKP <sub>1</sub>     |       | 51.5C |               |         | 13805 | 124.3 |
| Samarkand    | iPKP <sub>1</sub>     |       | 52D   |               |         | 13 80 | 125.6 |
| Karoi        | iPKP <sub>1</sub>     |       | 53D   | ei (SKP)      | 42 34   | 13970 | 125.7 |
| Station Nord | iPKP                  |       | 55.0  |               |         | 14200 | 127.8 |
| Broken Hill  | iPKP <sub>1</sub>     |       | 57D   | i SKP         | 42 42   | 14255 | 128.3 |
| Gochavn      | .P                    |       | 58.4  |               |         | 14470 | 130.2 |
| Chileka      | iPKP <sub>1</sub>     |       | 59D   | iPKKP         | 49 48   | 13755 | 123.8 |
| Kings Bay    | iPKP                  | 40    | 01.0  |               |         | 14520 | 130.7 |
| Téhéran      | e (PKP)               |       | (02)  |               |         | 15245 | 137.2 |
| Kevo         | i (PKP)               |       | 04.0  | i SKP         | 43 09.7 | 15270 | 137.4 |
| Vannovskaya  | PKP <sub>1</sub>      |       | 07    |               |         | 14685 | 132.2 |
| Sodankylae   | iPKP                  |       | 07.8  |               |         | 15490 | 139.4 |
| Tbilisi      | i (PKP <sub>1</sub> ) |       | 10    |               |         | 15840 | 142.6 |
| Addis Ababa  | ePIP                  |       | 10    | e             | 41 42.0 | 15400 | 138.6 |
| Kiruna       | iPKP                  |       | 10.8  |               |         | 15580 | 140.3 |
| Bakou        | ePKP <sub>1</sub>     |       | 12.4  |               |         | 15415 | 138.7 |
| Apatity      | iPKP <sub>1</sub>     |       | 13    |               |         | 15285 | 137.6 |
| Kermanshah   | ePKP                  |       | 13    |               |         | 15610 | 140.5 |
| Oulu         | ePKP                  |       | 14    | eSKP          | 43 24   | 15710 | 141.4 |
| Makhatchkala | ePKP <sub>1</sub>     |       | 15    |               |         | 15815 | 140.5 |
| Oris         | iPKP                  |       | 15.2  |               |         | 15720 | 141.5 |
| Tabriz       | iPKP                  |       | 16.5  | iPP           | 26      | 15720 | 141.5 |
| Kajaani      | iPKP                  |       | 16.6D | iSKP          | 20.5    | 15745 | 141.7 |
| Moskva       | ePKP <sub>1</sub>     |       | 17D   |               |         | 15910 | 143.2 |
| Akureyri     | ePKP                  |       | 20    |               |         | 15820 | 142.4 |
| Reykjavik    | ePIP                  |       | 22    |               |         | 15890 | 143.0 |
| Uméa         | iPKP                  |       | 23.2D | iSKP          | 39.8    | 15980 | 14.8  |
| Poti         | iPKP <sub>1</sub>     |       | 2.2D  |               |         |       |       |
| Bakouriani   | iPKP <sub>1</sub>     |       | 24.4D |               |         | 15945 | 143.5 |
| Poulkovo     | iPKP <sub>1</sub>     |       | 24.5  |               |         | 16000 | 144.0 |
| Sida         | iPKP                  |       | 25.1  |               |         | 16010 | 144.1 |
| Kirovabad    | PKP <sub>1</sub>      |       | 26    |               |         | 15720 | 141.5 |
| Skalstugan   | iPKP                  |       | 26.6  |               |         | 16185 | 145.5 |
| Murmijaervi  | iPKP                  |       | 27.7D | iSKP          | 28.5    | 16155 | 145.4 |
| Bergen       | iPKP                  |       | 28.8  |               |         | 16600 | 149.4 |
| Uppsala      | iPKP                  |       | 30.1  |               |         | 16430 | 147.9 |
| Uddeholm     | iPKP                  |       | 31.8  |               |         | 16505 | 148.5 |
| Lillehammer  | iPKP                  |       | 32.8  |               |         | 16455 | 148.1 |

|                  |          |       |                   |         |       |                      |       |       |
|------------------|----------|-------|-------------------|---------|-------|----------------------|-------|-------|
| Kongsberg        | 1PKP     | 21 40 | 34·6              |         |       |                      | 16630 | 149·7 |
| Bang ui          | PKP 1    |       | 35·4              | 1PP     | 21 44 | 19·4                 | 16590 | 149·3 |
| Oteberg          | ePKP     |       | 36                |         |       |                      | 16785 | 151·1 |
| Simferopol       | 1PKP 1   |       | 36 <sup>C</sup>   |         |       |                      | 16625 | 149·6 |
| Jerusalem        | 1PKP 1   |       | 36·5              | ePP     |       | 21                   | 16690 | 150·2 |
| Karlskrona       | 1PKP     |       | 37·4              |         |       |                      | 16850 | 151·7 |
| Lvov             | ePKP     | (39)  |                   | e       |       | 41(01)               | 17035 | 153·3 |
| Helwan           | 1PKP     |       | 40                | i       |       | 40 45                | 17030 | 153·3 |
| Kobenhavn        | PKP      |       | 40·0              |         |       |                      | 16990 | 152·9 |
| Moca             | PK:KP    |       | 40·7              | PKP 2   |       | 50·2                 | 16940 | 152·5 |
| Durham           | 1PKP     |       | 41                |         |       |                      | 17235 | 155·1 |
| Foczani          | PKP      |       | 42                | e       |       | 41 11                | 17090 | 153·8 |
| Oujgorod         | 1PKP 1   |       | 43 <sup>D</sup>   |         |       |                      | 17215 | 155·0 |
| Vrincioaid       | PKP      |       | 43                |         |       | 09                   | 17115 | 154·0 |
| Krakow           | ePKP     |       | 43                |         |       |                      | 17235 | 155·1 |
| Heligoland       | ePKP     |       | 43·7              | e       |       | 44 48·3              | 17240 | 155·2 |
| Trieste          | 1(PKP 1) |       | 44                | i       |       | 41 36                | 17900 | 161·1 |
| Niedzica         | 1PKP     |       | 44 <sup>D</sup>   |         |       |                      | 17265 | 155·4 |
| Collm            | 1PKIKP   |       | 44·2 <sup>D</sup> | i       |       | 40 56·2 <sup>D</sup> | 17410 | 156·7 |
| Paraskevi        | ePKP     |       | 44·5              |         |       |                      | 17430 | 156·9 |
| Moxa             | ePKIKP   |       | 45                | e1PKP 2 |       | 41 21                | 17520 | 157·7 |
| Vaciborz         | ePKP 1   |       | 45                |         |       |                      | 17315 | 155·8 |
| Srobarova        | e1PKP    |       | 45                | e       |       | 42 15                | 17495 | 157·5 |
| Chorzow          | ePKP     |       | 45                |         |       |                      | 17260 | 155·3 |
| Valentia         | PKP      |       | 45·0              |         |       |                      | 17400 | 156·6 |
| Pruhonice        | e1PKP    |       | 45·2 <sup>D</sup> |         |       |                      | 17480 | 157·3 |
| Lamto            | PKP      |       | 45·3              |         |       |                      | 17310 | 155·8 |
| Witteveen        | 1PKP 1   |       | 45·4              | 1PKP 2  |       | 14 17·2              | 17405 | 156·7 |
| Lomé             | 1PKP 1   |       | 46                | 1PKP 2  |       | 16                   | 17370 | 156·3 |
| Kichinev         | 1PKP 1   |       | 46 <sup>D</sup>   |         |       |                      | 16910 | 152·2 |
| Campulung        | PKP      |       | 46                | i       |       | 10                   | 17230 | 155·  |
| Kasperské Hory   | 1PKP     |       | 46·6              |         |       |                      | 17699 | 158·  |
| Wien Kobenzl     | PKP      |       | 46·7              | i       |       | 45 08·4              | 17555 | 158·0 |
| Bensberg         | 1PKP     |       | 46·7              | i       |       | 41 24·3              | 17600 | 158·4 |
| Wien             | 1PKP     |       | 46·8 <sup>D</sup> |         |       |                      | 17555 | 158·0 |
| Erlangen         | ePKP 1   |       | 47·1 <sup>D</sup> | 1ePKP 2 |       | 26·5 <sup>D</sup>    | 17625 | 158·6 |
| Beograd          | e1PKP    |       | 47·2              |         |       |                      | 17590 | 158·3 |
| Vamos            | e1PKP    |       | 47·2 <sup>C</sup> |         |       |                      | 17700 | 159·3 |
| Stuttgart        | ePKP     |       | 47·9              | ePKP 2  |       | 31·2                 | 17780 | 160·0 |
| Furstenfeldbruck | 1PKP 1   |       | 48                | 1PKP 2  |       | 32                   | 17780 | 160·0 |
| Zagreb           | PKP      |       | 48·5              |         |       |                      | 17780 | 160·0 |
| Buhl erhohe      | ePKP     |       | 49·0              |         |       |                      | 17815 | 160·3 |
| M'bour           | 1PKP 1   |       | 49                | 1PKP 2  |       | 23                   | 17520 | 157·7 |
| Ravensburg       | ePKP     |       | 49·2              | ePKP 2  |       | 36·2                 | 17870 | 160·8 |
| Champ du Feu     | 1PKP 1   |       | 49·2              |         |       |                      | 17870 | 160·8 |
| Karl sruhe       | 1PKP     |       | 49·3              | e       |       | 41 31·7              | 17780 | 160·0 |
| Haudompré        | 1PKP 1   |       | 49·5              |         |       |                      | 17930 | 161·4 |
| Strasbourg       | 1PKIKP   |       | 49·5              | e1PP    |       | 45 15                | 17835 | 160·5 |
| Besançon         | e1PKIKP  |       | 50·0 <sup>D</sup> | 1PKP 2  |       | 41 41·3              | 18020 | 162·2 |
| Ljubljana        | ePKIKP   |       | 50                | ePKP 2  |       | 33                   | 17835 | 160·5 |
| L'Aquila         | ePKP 1   |       | 50                | ePP     |       | 45 35                | 18200 | 163·8 |
| Folinigre        | 1PKP 1   |       | 50·3              | ePKP 2  |       | 41 38·0              | 17910 | 161·2 |
| Messtetten       | ePKP     |       | 50·4 <sup>D</sup> | ePKP 2  |       | 37·0 <sup>D</sup>    | 17845 | 160·6 |

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|                  |         |       |       |        |       |         |       |       |
|------------------|---------|-------|-------|--------|-------|---------|-------|-------|
| St Sauveur       | iPKP1   | 21 40 | 50.5  |        |       | 17930   | 161.4 |       |
| Valsamata        | ePKP    |       | 50.7  |        |       | 17940   | 161.4 |       |
| Gorron           | iPKP1   |       | 50.9  | iPKP2  | 21 41 | 37.6    | 17955 | 161.6 |
| Le Pertre        | iPIP1   |       | 51.1  | iPKP2  |       | 39.4    | 17985 | 161.9 |
| Sommée Lormes    | iPKP1   |       | 51.5  |        |       |         | 18055 | 162.5 |
| St Saulge        | iPKP1   |       | 51.5  |        |       |         | 18080 | 162.7 |
| Garchy           | iPKP    |       | 51.6D | i      |       | 42.9    | 18055 | 162.5 |
| Les Buteaux      | iPKP1   |       | 51.6  |        |       |         | 18080 | 162.7 |
| Istanbul Kand.   | i(PKP)  |       | 51.8  | i      |       | 07.8    | 17145 | 154.3 |
| Lanslevillard    | eiPKIKP |       | 52.4  | iPKP2  |       | 49.5    | 18205 | 163.8 |
| Vouelans         | eiPKIKP |       | 52.6D | eiPP   | 45    | 29.0    | 18115 | 163.0 |
| Roseland         | eiPKIKP |       | 52.6  | iPKP2  | 41    | 47.2    | 18170 | 163.5 |
| Toulx Ste Croix  | iPKP1   |       | 52.8  |        |       |         | 18175 | 163.6 |
| Monteynard       | eiPKIKP |       | 53.0  | ePKP2  |       | 51      | 18270 | 164.4 |
| Roma             | iPKP    |       | 53.2  | e(SKS) | 47    | 45      | 18285 | 164.6 |
| Isola            | iPKP    |       | 53.8  |        |       |         | 18320 | 164.9 |
| Clermont         | iPKIKP  |       | 54    | e      |       | 43 08.5 | 18225 | 164.0 |
| St Paul en Foret | ePKP1   |       | 54.4  |        |       |         | 18390 | 165.5 |
| Monaco           | iPKP    |       | 54.5  |        |       |         | 18350 | 165.1 |
| La Mourre        | iPKP1   |       | 54.6  | ePP    | 45    | 44.2    | 18415 | 165.7 |
| Archignac        | iPKP1   |       | 54.7  |        |       |         | 18320 | 164.9 |
| Lorgues          | iPKP1   |       | 54.8  |        |       |         | 18410 | 165.7 |
| Le Pouchou       | iPKP1   |       | 54.9  |        |       |         | 18330 | 165.2 |
| Porto            | PKP     |       | 56.0  |        |       |         | 18510 | 166.6 |
| Lisboa           | PKP1    |       | 58.3  | PKP2   | 42    | 07.6    | 18630 | 168.1 |
| Alicante         | iPKP1   |       | 58.5  | iPKP   |       | 21.5    | 19070 | 171.6 |
| Toledo           | iPKP1   |       | 59.0  | iPKP2  | 1     | 14.0    | 18820 | 169.4 |
| Sétif            | iPKP    |       | 59    | i      |       | 27.2D   | 19170 | 172.5 |
| Almería          | iPKP1   |       | 59.5  | iPKP2  |       | 27      | 19180 | 172.6 |
| Tamanrasset      | iPKP    | 41    | 00D   | i      |       | 23      | 19070 | 171.6 |
| Rabat            | PKP     |       | 00    | ei     | 46    | 21      | 19180 | 172.6 |
| Rabat Z          | PKP     |       | 00.0  |        |       |         | 19180 | 172.6 |
| Averroes         | iPKP    |       | 00.1  | em     | 47    | 10      | 19170 | 172.5 |
| Ifrane           | iPKP    |       | 01.7  | ei     | 50    | 08      | 19330 | 174.0 |

Chiraz, Sa da Bandeira, Nairobi, Iasy, Bacau, Ksara, Sverdlovsk, Praha, Mimy.

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Données insuffisantes

|            |       |       |       |    |       |    |  |
|------------|-------|-------|-------|----|-------|----|--|
| Nouméa     | ip    | 21 32 | 33.1C |    |       |    |  |
| Ouanaham   | ip    |       | 33.6C |    |       |    |  |
| Koumac     | ip    |       | 36.8C | 1S | 21 36 | 23 |  |
| Afiama     | ei(P) |       | 37    |    |       |    |  |
| Luganville | ip    |       | 39.6D | 1S |       | 23 |  |



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 Au large de la cote de Michoacan (Mexique)

16° 1'N, 105° 4'W h = 51 km H = 21h41m09.8S (CGS)

16° 00'N, 105° 06'W H = 21h41m04S (Tacubaya)

M = 5.5 (Wichita M), 5.1 (La Palma), 5.0 (Dugway, Eureka,  
 La Paz), 4.9 (Blue M., Tonto Forest), 4.8 (Uinta Basin,  
 CGS), 4.7 (Penas), 4.6 (Cumberland Pl, Tucson), 4.3 (Albu-  
 querque), 3.9 (Golden).

|                     |    |                       |      |            |      |      |
|---------------------|----|-----------------------|------|------------|------|------|
| Presa Infiernillo   | IP | 21 42 04 <sup>D</sup> | IS   | 21 42 49.5 |      |      |
| Guadalajara         | IP | 24                    | ES   | 43 24      |      |      |
| Manzanillo          | ES | 32                    |      |            |      |      |
| Leon                | IP | 40                    |      |            |      |      |
| Nat. Univ. Mexico   | IP | 49                    | ISn  | 44 06      | 770  | 6.9  |
| Vista Hermosa       | IP | 43 07.5               |      |            |      |      |
| Mazatlan            | e  | 12                    |      |            |      |      |
| Chihuahua           | EP | 44 09                 |      |            |      |      |
| Tacubaya            | ES | 12                    |      |            | 745  | 6.7  |
| Oaxaca              | e  | 18                    |      |            |      |      |
| La Palma            | EP | 48.0                  |      |            | 1745 | 15.7 |
| Tucson              | IP | 45 03.8 <sup>C</sup>  | e    | 48 16.0    | 1870 | 16.8 |
| Albuquerque         | EP | 26.8                  | e    | 49 00.0    | 2090 | 18.8 |
| Tonto Forest        | EP | 27.9                  | ePP  | 45 40.7    | 2090 | 18.8 |
| Wichita M.          | EP | 31.6                  |      |            | 2170 | 19.5 |
| Pasadena            | EP | 56                    | e    | 51.2       | 2370 | 21.3 |
| Glen Canyon         | EP | 57.2                  |      |            | 2390 | 21.5 |
| Golden              | EP | 46 15.0               | eL   | 53 45.0    | 2610 | 23.5 |
| Priest              | EP | 16.8 <sup>C</sup>     |      |            | 2680 | 24.1 |
| Dugway              | EP | 19.7                  |      |            | 2755 | 24.8 |
| Manhattan           | EP | 23.0                  |      |            | 2690 | 24.2 |
| Lawrence            | EP | 24.8                  | e(S) | 22 01 07.0 | 2710 | 24.1 |
| Uinta Basin         | EP | 25.6                  |      |            | 2710 | 24.4 |
| Eureka              | EP | 30.0                  |      |            | 2780 | 25.2 |
| San Luis Dam        | EP | 31.5                  |      |            | 2800 | 25.2 |
| Salt Lake City      | EP | 33.9                  |      |            | 2800 | 25.2 |
| Jamestown           | EP | 34.5 <sup>C</sup>     | e    | 21 50 10.0 | 2830 | 25.5 |
| Mt Hamilton         | EP | 36.9 <sup>C</sup>     |      |            | 2845 | 25.6 |
| Cumberland Pl       | EP | 41.8                  |      |            | 2910 | 26.2 |
| Berkeley            | EP | 47.5 <sup>C</sup>     | e    | 46 51      |      |      |
| Mineral             | EP | 57.8 <sup>D</sup>     | e    | 47 03      |      |      |
| Blue M.             | EP | 47 18.1               |      |            | 3370 | 30.3 |
| Bitte               | EP | 19.6                  | eP   | 59 19.0    | 3380 | 30.4 |
| Blacksburg          | EP | 19.7                  |      |            | 3380 | 30.4 |
| Morgantown          | IP | 35.6 <sup>D</sup>     |      |            | 3580 | 32.2 |
| Hungry Horse        | e  | 42.1                  |      |            | 3655 | 32.9 |
| Longmire            | e  | 45                    |      |            |      |      |
| Newport             | EP | 46.0                  |      |            | 3720 | 33.5 |
| Washington Sc. Cen. | EP | 46.5                  |      |            | 3730 | 33.6 |
| Nordman             | EP | 49.0                  |      |            | 3755 | 33.8 |
| Edmonton            | EP | 48 20.0               |      |            | 4170 | 37.5 |
| Ottawa              | EP | 27.0                  |      |            | 4255 | 38.3 |
| Weston              | IP | 34.8                  |      |            | 4345 | 39.1 |

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|            |    |       |                   |      |      |
|------------|----|-------|-------------------|------|------|
| Brébeuf    | iP | 21 48 | 37.9 <sup>D</sup> | 4390 | 39.5 |
| Berlin     | iP |       | 45.3              | 4490 | 40.4 |
| Penas      | P  | 49    | 50.7              | 5400 | 48.6 |
| La Paz     | P  |       | 55.0              | 5445 | 49.0 |
| Coppermine | eP | 50    | 16.1              | 5780 | 52.0 |

inscrit à Vera Cruz.

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Données insuffisantes

|              |    |       |                   |   |          |
|--------------|----|-------|-------------------|---|----------|
| Longmire     | iP | 21 59 | 22.2              |   |          |
| Mt. Hamilton | eP |       | 23.4 <sup>D</sup> |   |          |
| Jamestown    | eP |       | 24.2 <sup>C</sup> | e | 21 59 35 |
| Priest       | eP |       | 30.0 <sup>C</sup> |   |          |
| Mineral      | eP |       | 47.2 <sup>C</sup> |   |          |

XXXVI.- 20 Janvier

Région de la Nouvelle Bretagne

H = 22<sup>h</sup>.27<sup>mn</sup>47<sup>s</sup>.; M. = 6.1(Rabaul)

|                |     |       |                 |    |          |
|----------------|-----|-------|-----------------|----|----------|
| Rabalanakaia   | iP  | 22 28 | 40.0            |    |          |
| Wanliss Street | eP  |       | 40.5            |    |          |
| Keravat        | eIP |       | 41 <sup>D</sup> | 1S | 22 29 03 |
| Port Moresby   | eP  | 30 06 |                 | eS | 31 33    |
| Brisbane       | iP  | 33 08 |                 |    |          |

inscrit à Rabaul.

I.- 21 Janvier

Iles Salomon.

5°2 S ; 154°0 E ; h = 112<sup>Km</sup> ; H = 00<sup>h</sup>.28<sup>mn</sup>12.5<sup>s</sup>. (CGS)  
 5°4 S ; 154°2 E ; h = 86<sup>Km</sup> ; H = 00<sup>h</sup>.28<sup>mn</sup>08<sup>s</sup>. (URSS)

M. = 5.9(Adélaïde); 5.7(Shillong - Poona); 5.8(Shiraki); 5.5(Rabaul -  
 Quetta); 5.3(New Dehli); 5.1(College - CGS); 5.0(Gilmore Creek);  
 4.9(Eureka - Mt. Tsukuba); 4.8(Palmer); 4.6(Uinta Basin);  
 4.5(Blue M.); 4.1(Tonto Forest).

|                |      |       |                   |    |          |
|----------------|------|-------|-------------------|----|----------|
| Rabalanakaia   | iP   | 00 28 | 46.6 <sup>D</sup> |    |          |
| Wanliss Street | iP   |       | 47 <sup>D</sup>   |    |          |
| Rabaul         | iP   |       | 47.2 <sup>D</sup> | 1S | 00 29 12 |
| Sulphur Creek  | iP   |       | 47.6              |    |          |
| Keravat        | i(P) |       | 58 <sup>D</sup>   |    |          |
| Esa Ala        | iP   | 29    | 30 <sup>D</sup>   |    |          |
| Honiara        | iP   |       | 56                |    | 800 7.2  |
| Port Moresby   | iP   | 30    | 07.8              |    | 890 8.0  |

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|                  |      |       |         |    |       |      |      |      |
|------------------|------|-------|---------|----|-------|------|------|------|
| Luganville       | iP   | 00 31 | 58°3(C) |    |       |      |      |      |
| Charters Towers  | iP   | 32    | 01      | iS | 00 34 | 56   | 1845 | 16°6 |
| Koumac           | iP   |       | 17°1C   | iS | 35    | 42   |      |      |
| Ouanaham         | iP   |       | 37°6C   | iS | 36    | 17°5 |      |      |
| Nouméa           | iP   |       | 45°5C   | iS |       | 32   |      |      |
| Guam             | eP   |       | 46      | eS |       | 34   | 2300 | 20°7 |
| Brisbane         | iP   |       | 59      | iS |       | 57   | 2455 | 22°1 |
| Warramunga       | eP   | 33    | 19      | e  | 40    | 29°5 |      |      |
| Canberra         | eP   | 34    | 15      | eS | 39    | 09   | 3365 | 30°3 |
| Davao            | iP   |       | 21      | iS |       | 15   | 3435 | 30°9 |
| Adélaïde         | iP   |       | 37      |    |       |      | 3645 | 32°8 |
| Toolangi         | dP   |       | 39      | e  |       | 53   | 3680 | 33°1 |
| Karapiro         | eP   | 35    | 21      |    |       |      |      |      |
| Baguio           | iP   |       | 34      | iS | 41    | 28   | 4380 | 39°4 |
| Meekatharra      | iP   |       | 36°3C   |    |       |      |      |      |
| Kalgoorlie       | iP   |       | 37      |    |       |      | 4420 | 39°8 |
| Monowai          | eP   |       | 54      |    |       |      |      |      |
| Oishiyama        | eP   | 36    | 00      |    |       |      | 4765 | 42°9 |
| Kiyosumi         | eP   |       | 01°1    |    |       |      | 4700 | 42°3 |
| Dodaira          | iP   |       | 03°4    |    |       |      | 4810 | 43°3 |
| Mt. Tsukuba      | eP   |       | 04°5    |    |       |      | 4800 | 43°3 |
| Matsushiro       | eP   |       | 10      |    |       |      |      |      |
| Mundaring        | iP   |       | 11°7    |    |       |      | 4910 | 44°2 |
| Shiraki          | P    |       | 12°7    |    |       |      | 4935 | 44°4 |
| Hong Kong        | eP   |       | 18      |    |       |      | 5290 | 47°6 |
| Youno Sakhalinsk | eP   | 37    | 22      |    |       |      |      |      |
| Petropavlovsk    | e(P) | 38    | 04      | eS | 45    | 54   |      |      |
| Oulan Bator      | iP   |       | 58      | S  | 47    | 44   |      |      |
| Shillong         | iP   |       | 59°5    |    |       |      | 7510 | 67°6 |
| Yakotsk          | iP   | 39    | 11C     |    |       |      |      |      |
| Bodajbo          | iP   |       | 16°5C   |    |       |      |      |      |
| Chatra           | iP   |       | 27C     |    |       |      |      |      |
| Bokaro           | i    |       | 28      |    |       |      |      |      |
| Vishakhapatnam   | eP   |       | 35      |    |       |      |      |      |
| Mirny            | iP   |       | 35      | e  | 49    | 39   | 8220 | 74°0 |
| Madras           | eP   |       | 47      | e  |       | 52   |      |      |
| Big Mountain     | eP   |       | 47      |    |       |      | 8420 | 75°8 |
| Sparrevohn       | iP   |       | 54°4    |    |       |      | 8520 | 76°7 |
| Kodaikanal       | iP   | 40    | 01      |    |       |      |      |      |
| Tiksi            | eP   |       | 01      | iS |       | 49   |      |      |
| Palmer           | eP   |       | 08°5    | e  | 40    | 35°3 | 8845 | 79°6 |
| Tanana           | eP   |       | 12      |    |       |      | 8955 | 80°6 |
| Dehra Dun        | iP   |       | 13      |    |       |      |      |      |
| Mts Sheep Creek  | iP   |       | 14°1    |    |       |      | 8935 | 80°4 |
| New Delhi        | iP   |       | 15°6    | eS | 50    | 14   | 9000 | 81°0 |
| Afiamalu         | eS   | 40    | 3--     |    |       |      |      |      |
| College          | iP   | 40    | 19°7    | i  | 40    | 45°5 | 9090 | 81°8 |
| Pedro Dome       | iP   |       | 20      |    |       |      | 9110 | 82°0 |
| Gilmore Creek    | eP   |       | 20°2    | e  |       | 46°5 | 9110 | 82°0 |
| Black Rapids     | iP   |       | 21      |    |       |      | 9100 | 81°9 |
| Poona            | eP   |       | 23      |    |       |      | 9155 | 82°4 |
| Bombay           | eP   |       | 28      | eS | 50    | 44   |      |      |

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|               |      |       |                   |      |       |      |       |       |
|---------------|------|-------|-------------------|------|-------|------|-------|-------|
| Semipalatinsk | eP   | 00 40 | 29.3              | eS   | 00 50 | 37.9 |       |       |
| Byrd          | eP   |       | 31.9              | e    | 40    | 57.9 | 9365  | 84.3  |
| Talgar        | iP   |       | 32 <sup>C</sup>   |      |       |      |       |       |
| South Pole    | eP   |       | 35.2              | SP   |       | 59.6 | 9420  | 84.8  |
| Mangla        | eP   |       | 36.6              |      |       |      |       |       |
| Warsak        | P    |       | 45                |      |       |      |       |       |
| Oroville      | eP   |       | 57                |      |       |      | 9900  | 89.1  |
| Tachkent      | eP   | 41    | 00 <sup>C</sup>   | iS   | 51    | 41   |       |       |
| Quetta        | iP   |       | 02 <sup>D</sup>   |      |       |      | 10010 | 90.1  |
| Blue M.       | eP   |       | 12.8              |      |       |      | 10300 | 92.7  |
| Newport       | eP   |       | 14                |      |       |      | 10345 | 93.1  |
| Eureka        | iP   |       | 17.5              |      |       |      | 10365 | 93.3  |
| Mould Bay     | eP   |       | 19.4              |      |       |      | 10465 | 94.2  |
| Glamis        | P    |       | 20                |      |       |      | 10420 | 93.8  |
| Pasadena      | e(P) |       | 22                | e(S) |       | 30   | 10120 | 91.1  |
| Coppermine    | eP   |       | 23.7 <sup>D</sup> |      |       |      | 10580 | 95.2  |
| Edmonton      | eP   |       | 28                |      |       |      | 10635 | 95.7  |
| Dugway        | eP   |       | 34.6              |      |       |      | 10645 | 95.8  |
| Tonto Forest  | eP   |       | 35.3              | eSKS | 52    | 06   | 10755 | 96.8  |
| Uinta Basin   | eP   |       | 39.4              | eSKS |       | 12   | 10920 | 98.3  |
| Resolute      | eP   |       | 48                |      |       |      | 11165 | 100.5 |
| Lasa Center   | eP   |       | 48.6              |      |       |      | 11165 | 100.5 |
| Wichita M.    | PKP  | 46    | 30.8              | eps  | 56    | 06   | 11920 | 107.3 |
| Pruhonic      | PKP  |       | 58.3              |      |       |      | 13765 | 123.9 |
| Penas         | PKP  | 47    | 17.7              | PKS  | 50    | 39.3 | 14765 | 132.9 |
| La Paz        | PKP  |       | 18                | PKS  |       | 38.6 | 14790 | 133.1 |
| Caracas       | ePKP |       | 28 <sup>C</sup>   | eSKS | 57    | 04   |       |       |
| Trinidad      | PKP  |       | 34.6              |      |       |      | 16055 | 144.5 |
| Tamanrasset   | iPKP |       | 38                | i    | 48    | 23   |       |       |
| Rabat Zaers   | PKP  |       | 39                |      |       |      | 16265 | 146.4 |
| Ifrane        | PKP  |       | 40.5              |      |       |      | 16200 | 145.8 |
| Averroes      | PKP  |       | 44                |      |       |      | 16355 | 147.2 |
| Addis Ababa   | ePP  |       | 50                |      |       |      |       |       |
| Lamto         | PKP  | 48    | 16.8              |      |       |      | 17680 | 159.1 |

inscrit à Lonorore - Trieste - Nat.Univ.Mexico.

II.- 21 Janvier

Région de l'île Sumbawa

6°0 S ; 117°6 E ; h = 134 km ; JH = 01h.20mm 49.7s. (CGS)  
 7°6 S ; 117°2 E ; h = 305 km ; H = 01h.21mm 11s. (URSS)

M. = 6.0 (Shiraki); 5.5 (Honiara - Shillong - Quetta); 5.3 (CGS - New  
 Delhi); 5.2 (Bangui); 5.1 (Mt. Tsukuba - Nairobi);  
 5.0 (Addis Ababa - Palmer).

|             |    |       |                      |   |       |      |      |      |
|-------------|----|-------|----------------------|---|-------|------|------|------|
| Darwin      | eP | 01 23 | 58                   |   |       |      | 1520 | 13.7 |
| Meekatharra | iP |       | 24 57.6 <sup>D</sup> |   |       |      |      |      |
| Warramunga  | iP |       | 25 14                | e | 01 36 | 22.5 | 2235 | 20.1 |
| Kalbarrie   | iP |       | 43.2                 |   |       |      | 2545 | 22.9 |

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|                   |      |    |                 |                   |      |    |    |      |           |
|-------------------|------|----|-----------------|-------------------|------|----|----|------|-----------|
| Mundaring         | iP   | 01 | 25              | 52                |      |    |    |      |           |
| Port Moresby      | iP   |    | 26              | 41'2              |      |    |    | 3245 | 29'2      |
| Charters Towers   | iP   |    |                 | 50                | eS   | 01 | 31 | 28   | 3355 30'2 |
| Esa Ala           | eP   |    | 27              | 13'5 <sup>D</sup> |      |    |    |      |           |
| Adélaïde          | eP   |    |                 | 15                | e    | 33 | 21 |      | 3680 33'1 |
| Brisbane          | iP   |    | 28              | 01'4              | iS   |    | 38 |      | 4265 36'4 |
| Toolangi          | iP   |    |                 | 03'6 <sup>D</sup> | eScP |    | 42 |      | 4310 38'8 |
| Canberra          | iP   |    |                 | 09'9 <sup>D</sup> | ePP  | 29 | 47 |      | 4390 39'5 |
| Honiara           | eP   |    |                 | 28'1              | eS   | 34 | 29 |      | 4655 41'9 |
| Shillong          | iP   |    |                 | 29'1              |      |    |    |      | 4635 41'7 |
| Tarraleah         | eP   |    |                 | 34                |      |    |    |      | 4735 42'6 |
| Port Vila         | iP   |    |                 | 43'1 <sup>D</sup> |      |    |    |      |           |
| Shiraki           | P    |    |                 | 54'4              |      |    |    |      | 4865 44'7 |
| Wakaura W.        | eP   |    |                 | 56                |      |    |    |      | 5020 45'2 |
| Oishiyama         | eP   |    |                 | 56'7              |      |    |    |      | 5020 45'2 |
| Chatra            | iP   | 29 | 01              |                   |      |    |    |      |           |
| Abuyama           | eP   |    |                 | 03'2              |      |    |    |      |           |
| Koumac            | iP   |    |                 | 07'4 <sup>D</sup> |      |    |    |      | 5200 46'8 |
| Kiyosumi          | eP   |    |                 | 17                |      |    |    |      | 5335 48'0 |
| Matsushiro        | iP   |    |                 | 20'3              |      |    |    |      | 5380 48'4 |
| Dodaira           | eP   |    |                 | 20'8              |      |    |    |      | 5365 48'3 |
| Mt. Tsukuba       | eP   |    |                 | 23                |      |    |    |      | 5420 48'8 |
| Nouméa            | iP   |    |                 | 25'5 <sup>D</sup> |      |    |    |      | 5445 49'0 |
| Poona             | eP   |    |                 | 38                |      |    |    |      |           |
| Vladivostok       | P    |    |                 | 53 <sup>C</sup>   |      |    |    |      |           |
| New Dehli         | iP   |    |                 | 57                | eS   | 37 | 10 |      | 5935 55'4 |
| Oulan Bator       | eP   |    | 30              | 22                |      |    |    |      |           |
| Esen Boulak       | eP   |    |                 | 30                |      |    |    |      |           |
| Kodaikanal        | iP   |    |                 | 30                |      |    |    |      |           |
| Quetta            | eP   |    |                 | 54'8 <sup>D</sup> |      |    |    |      | 6855 61'7 |
| Talgar            | iP   | 31 | 04              |                   |      |    |    |      |           |
| Bodajbo           | iP   |    |                 | 22 <sup>C</sup>   |      |    |    |      |           |
| Tachkent          | eP   |    |                 | 25 <sup>C</sup>   |      |    |    |      |           |
| Semipalatinsk     | P    |    |                 | 26'9              |      |    |    |      |           |
| Yakoutsk          | iP   |    |                 | 52                |      |    |    |      |           |
| Vannovskaya       | eP   | 32 | 03              |                   |      |    |    |      |           |
| Chiraz            | P    |    |                 | 04'6              |      |    |    |      | 8065 72'6 |
| Tiksi             | iP   |    |                 | 44 <sup>C</sup>   |      |    |    |      |           |
| Tabriz            | eP   |    |                 | 48                |      |    |    |      | 8945 80'5 |
| Addis Ababa       | eP   |    |                 | 49                |      |    |    |      | 8920 80'3 |
| Nairobi           | iP   |    |                 | 50'8 <sup>C</sup> |      |    |    |      | 8965 80'7 |
| Kirovabad         | eP   |    |                 | 51                |      |    |    |      |           |
| South Pole        | eP   |    |                 | 56'1              |      |    |    |      | 9110 82'0 |
| Changalane        | eP   |    |                 | 58'7 <sup>C</sup> |      |    |    |      | 9155 82'4 |
| Chileka           | iP   | 33 | 00 <sup>C</sup> |                   |      |    |    |      | 8980 80'8 |
| Karoi             | iP   |    |                 | 16 <sup>C</sup>   |      |    |    |      | 9535 85'8 |
| Bilawayo          | iP   |    |                 | 18 <sup>C</sup>   |      |    |    |      | 9590 86'3 |
| Broken Hill       | iP   |    |                 | 23 <sup>C</sup>   |      |    |    |      | 9690 87'2 |
| Eyrd              | P    |    |                 | 24'5              |      |    |    |      | 9720 87'5 |
| Novo_Kazarevskaya | eP   |    |                 | 24'5              |      |    |    |      |           |
| Jérusalem         | iP   |    |                 | 26'3              |      |    |    |      | 9755 87'8 |
| Prétoria          | i(P) |    |                 | 27'5              |      |    |    |      | 9555 86'0 |

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|                |      |       |                   |       |          |       |       |
|----------------|------|-------|-------------------|-------|----------|-------|-------|
| Palmer         | eP   | 01 34 | 15.6              |       |          | 10955 | 98.6  |
| Bangui         | iP   |       | 18.3 <sup>D</sup> |       |          | 11055 | 99.5  |
| Tamanrasset    | PKP  | 39 15 |                   |       |          | 12600 | 113.4 |
| Newport        | PKP  |       | 23                |       |          | 13235 | 119.1 |
| Nordman        | PKP  |       | 23                |       |          | 13220 | 119.0 |
| Edmonton       | PKP  |       | 24                |       |          | 13235 | 119.1 |
| Blue M.        | PKP  |       | 25.4              |       |          | 13355 | 120.2 |
| San Luis Dam   | PKP  |       | 26.1              |       |          | 13290 | 119.6 |
| Hungry Horse   | PKP  |       | 26.9              |       |          | 13435 | 120.9 |
| Ifrane         | PKP  |       | 30                |       |          | 13510 | 121.6 |
| Pasadena       | PKP  | 31    |                   | esP   | 01 40 18 | 13635 | 122.7 |
| Lamto          | PKP  |       | 32                |       |          | 13680 | 123.1 |
| Eureka         | PKP  |       | 32.1              |       |          | 13655 | 122.9 |
| Frobisher      | PKP  |       | 32.4              |       |          | 13800 | 124.2 |
| Averroes       | PKP  |       | 32.5              |       |          | 13720 | 123.5 |
| Bozeman SSS    | PKP  |       | 33.1              | e     | 19.5     | 13735 | 123.6 |
| Dugway         | PKP  |       | 36.4              | e     | 22.4     | 13880 | 124.9 |
| Uinta Basin    | PKP  |       | 40.5              | eSKP1 | 42 39.5  | 14135 | 127.2 |
| Tonto Forest   | PKP  |       | 43.2              |       |          | 14235 | 128.1 |
| Tucson         | PKP  |       | 44.8              |       |          | 14345 | 129.1 |
| Golden         | PKP  |       | 47                |       |          | 14490 | 130.4 |
| Albuquerque    | PKP  |       | 48                |       |          | 14620 | 131.6 |
| Wichita M.     | ePKP | 40    | 04.3              |       |          | 15280 | 137.5 |
| Berlin         | PKP  |       | 05.8              |       |          | 15865 | 142.6 |
| Weston         | PKP  |       | 11.9              |       |          | 16100 | 144.9 |
| Morgantown     | PKP  |       | 12                |       |          | 16090 | 144.8 |
| Cumberland Pl. | PKP  |       | 13                |       |          | 16145 | 145.3 |
| Oak Ridge      | PKP  |       | 14.1              |       |          | 16200 | 145.8 |
| Black Rapids   | PKP  |       | 16.1              |       |          | 16300 | 146.7 |
| Antofagasta    | ePKP |       | 20.7              | e     | 41 06    |       |       |
| La Paz         | PKP  |       | 26.7              |       |          | 17210 | 154.9 |
| Arequipa       | PKP  |       | 27                |       |          | 17110 | 154.0 |
| Penas          | PKP  |       | 30.8              |       |          | 17235 | 155.1 |

inscrit à L'onorore - l'Aquila.

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Sicile.

38° 0 N; 13° 2 E; h = 33 km; H = 02h.39mn05s. (CGS)  
Réplique H = 02h.39mn(00)s. (ING)

M. = 4.6(Wichita M.); 4.5(Uinta Basin); 4.3(CGS); 4.1(Blue M.);  
4.09(Roma)

|                   |     |       |      |      |       |      |     |     |
|-------------------|-----|-------|------|------|-------|------|-----|-----|
| Messina ING       | ePn | 02 39 | 39.7 | iSn  | 02 40 | 04.7 |     |     |
| Messina           | iPn |       | 40.4 | iSn  |       | 06.2 |     |     |
| Roma              | ePg | 40    | 16   | e(S) |       | 35   | 445 | 4.0 |
| La Mourre         | eIP |       | 50   |      |       |      |     |     |
| St. Paul en Foret | eIP |       | 51.4 |      |       |      |     |     |
| Lorgues           | eIP |       | 52.6 |      |       |      |     |     |

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|                     |     |                 |      |      |
|---------------------|-----|-----------------|------|------|
| Ljubljana           | ePn | 02 41 06        |      |      |
| Roselend            | eP  | 21              |      |      |
| Kasperské Hory      | e1P | 45              | 1245 | 11°2 |
| Les Buteaux         | e1P | 47°3            |      |      |
| Sommée Lormes       | eP  | 49°8            | 1290 | 11°6 |
| St. Saulge          | eP  | 50°9            | 1290 | 11°6 |
| Garchy              | 1P  | 55 <sup>C</sup> |      |      |
| Pruhonice           | eP  | 56              | 1345 | 12°1 |
| Moxa                | eP  | 42 06°5         | 1410 | 12°7 |
| Niedzica            | eP  | 07°2            |      |      |
| Collm               | eP  | 26              | 1489 | 13°3 |
| Tamanrasset         | 1P  | 55 <sup>D</sup> | 1835 | 16°5 |
| Wichita M.          | eP  | 51 38°8         | 8320 | 83°9 |
| Blue M.             | eP  | 45°1            | 9580 | 86°2 |
| Uinta Basin         | eP  | 47°0            |      |      |
| inscrit à l'Aquila. |     |                 |      |      |

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Région de la Nouvelle Bretagne

H = 03<sup>h</sup>.23<sup>mn</sup>57<sup>s</sup>.; M. = 4°5(Rabaul)

|                |    |                       |    |            |
|----------------|----|-----------------------|----|------------|
| Rabalanakaia   | 1P | 03 24 24 <sup>D</sup> |    |            |
| Wanliss Street | 1P | 24°5                  |    |            |
| Rabaul         | eP | 25 <sup>D</sup>       | 1S | 03 24 45°8 |
| Keravat        | 1P | 26 <sup>D</sup>       | 1S | 49         |

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Nouvelles Hébrides

20°6 S ; 165°6 E ; H = 04<sup>h</sup>.11<sup>mn</sup>51<sup>s</sup>.(Nouméa)

|            |    |                         |    |            |
|------------|----|-------------------------|----|------------|
| Koumac     | 1P | 04 12 09°3 <sup>C</sup> | 1S | 04 12 21°5 |
| Ouanaham   | 1P | 14°3 <sup>C</sup>       | 1S | 32         |
| Nouméa     | 1P | 21 <sup>C</sup>         | 1S | 44°5       |
| Luganville | 1P | 13 06°8 <sup>(D)</sup>  |    |            |

inscrit à Lonorore

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Au large de la cote de Hondo (Japon)

33°8 N; 141°7 E ; h = 57km ; H = 04<sup>h</sup>.26<sup>mn</sup>11°7<sup>s</sup>.(CGS)  
 33°6 B; 141°8 E ; ; H = 04<sup>h</sup>.26<sup>mn</sup>08<sup>s</sup>.(URSS)  
 33°21'N; 142°02'E ; h = 100km ; H = 04<sup>h</sup>.26<sup>mn</sup>05°1<sup>s</sup>.(JMA)

M. = 5°3(Palmer); 5°1(Gilmore Creek - Newport - Uinta Basin);  
 5°0'(CGS - Wichita M. - Nurmijaerwi - Kajaani); 4°9(College -  
 Dugway - Tonto Forest - Tucson - Albuquerque); 4°8(Eureka);  
 4°7(Blue M.); 4°6(Golden).

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|                  |    |                    |     |            |  |       |      |
|------------------|----|--------------------|-----|------------|--|-------|------|
| Kiyosumi         | 1P | 04 28 43           |     |            |  | 210   | 1·9  |
| Mt Tsukuba       | 1P | 53·7               |     |            |  | 300   | 2·7  |
| Mito             | eP | 55·3               | 1S  | 04 27 29 2 |  |       |      |
| Dodaira          | 1P | 58                 |     |            |  | 335   | 3·0  |
| Yokohama         | e  | 27 00·7            | 1S  | 20·4       |  |       |      |
| Karnizawa        | eP | 10·1               | eS  | 53·9       |  |       |      |
| Matsushiro       | P  | 11                 | S   | 5 1        |  | 435   | 3·9  |
| Abuyama          | eP | 28·2               |     |            |  |       |      |
| Oishiyama        | eP | 29·2               |     |            |  | 5 0   | 5·3  |
| Mizusawa         | eP | 29·8               |     |            |  |       |      |
| Wakauraw.        | eP | 31                 |     |            |  | 600   | 5·4  |
| Shiraki          | eP | 28 02·1            |     |            |  | 835   | 7·5  |
| Guam             | eP | 31 00·5            |     |            |  | 2265  | 20·4 |
| Yakoutsck        | 1P | 32 10 <sup>D</sup> |     |            |  |       |      |
| Bodajbo          | 1P | 21                 |     |            |  |       |      |
| Tiksi            | 1P | 33 30 <sup>D</sup> |     |            |  |       |      |
| Semipalatinsk    | P  | 34 40·3            |     |            |  |       |      |
| Big Mountain     | 1P | 47                 |     |            |  | 5335  | 48·0 |
| Sparrevohn       | 1P | 47·2               |     |            |  | 5320  | 47·9 |
| Tal far          | 1P | 35 03              |     |            |  |       |      |
| Palmer           | eP | 09·5               |     |            |  | 5880  | 51·1 |
| College          | 1P | 15·3               | e   | 35 31      |  | 5745  | 51·7 |
| Pedro Dome       | 1P | 15·9               |     |            |  | 5755  | 51·8 |
| Gilmore Creek    | eP | 16·3               |     |            |  | 5765  | 51·9 |
| Mts Sheep Cr eek | 1P | 16·6               |     |            |  | 5780  | 52·0 |
| Black Rapids     | eP | 20·9               |     |            |  | 5845  | 52·6 |
| Warramunga       | eP | 27·5 5             |     |            |  |       |      |
| New Delhi        | eP | 36                 |     |            |  | 6065  | 54·6 |
| Garm             | eP | 49                 |     |            |  |       |      |
| Mould Bay        | eP | 36 11              |     |            |  | 6620  | 59·6 |
| Brisbane         | eP | 23·5               |     |            |  | 6865  | 61·8 |
| Quetta           | eP | 29·6 <sup>C</sup>  |     |            |  |       |      |
| Coppermine       | eP | 33·4 <sup>D</sup>  |     |            |  | 7 100 | 63·9 |
| Resolute         | eP | 50·5 <sup>C</sup>  |     |            |  | 7300  | 65·7 |
| Sodankylae       | eP | 37 076             |     |            |  | 7555  | 68·0 |
| Kajaani          | 1P | 16                 | 1   | 37 33·5    |  | 7735  | 69·6 |
| Oulu             | eP | 17                 |     |            |  |       |      |
| Edmonton         | 1P | 29                 |     |            |  | 7965  | 71·7 |
| Nordman          | 1P | 32·8               | e   | 49         |  | 8020  | 72·2 |
| Newport          | 1P | 33                 | e   | 48         |  | 8035  | 72·3 |
| Kirovabad        | eP | 33                 |     |            |  |       |      |
| Umeå             | 1P | 33·3               |     |            |  |       |      |
| NurmiJaervi      | eP | 37·1               |     |            |  | 8 100 | 72·1 |
| Goris            | eP | 39                 |     |            |  |       |      |
| Mt Hamilton      | eP | 3 3 1 <sup>D</sup> |     |            |  |       |      |
| Mineral          | eP | 3 9 5 <sup>D</sup> |     |            |  |       |      |
| Blue M.          | eP | 42·8               |     |            |  | 8 220 | 74·0 |
| Hungry Horse     | eP | 43·1               | esp | 59·3       |  | 8 220 | 74·0 |
| Berkley          | eP | 45·5 <sup>C</sup>  |     |            |  |       |      |
| Jamestown        | eP | 52·0 <sup>D</sup>  | e   | 38 0 8     |  |       |      |
| Uppsala          | 1P | 52·9               |     |            |  | 8 435 | 75·9 |
| priest           | eP | 57 <sup>D</sup>    |     |            |  |       |      |
| Uddeholm         | eP | 38 01              |     |            |  |       |      |



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|                |     |       |      |     |          |       |       |
|----------------|-----|-------|------|-----|----------|-------|-------|
| Lillehammer    | 1P  | 04 38 | 02:8 |     |          | 8590  | 77:3  |
| Eureka         | eP  |       | 04:9 |     |          | 8635  | 77:7  |
| Pasadena       | 1P  |       | 11   | 1SP | 04 38 26 | 8800  | 79:2  |
| Dugway         | eP  |       | 13:2 | e   | 29:4     | 8810  | 79:3  |
| Frobisher      | eP  |       | 15   |     |          | 8880  | 79:9  |
| Junta Basin    | eP  |       | 23:8 | eDP | 39:4     | 9020  | 81:2  |
| Glen Canyon    | eP  |       | 27   | eSP | 42:6     | 9110  | 82:0  |
| Niedzica       | eP  |       | 30   | eDP | 46       |       |       |
| Collm          | eP  |       | 37   | e   | 53       | 9335  | 84:0  |
| Tonto Forest   | eP  |       | 37:2 | e   | 53       | 9310  | 83:8  |
| Golden         | eP  |       | 39   |     |          | 9345  | 84:1  |
| Pruhonice      | e1P |       | 40:4 |     |          | 9365  | 84:3  |
| Moxa           | eP  |       | 43:5 |     |          | 9455  | 85:1  |
| Tucson         | eP  |       | 43:8 | e   | 39 00:1  | 9480  | 85:3  |
| Kasperské Hory | eP  |       | 45   |     |          |       |       |
| Albuquerque    | eP  |       | 50:1 | e   | 11       | 9610  | 86:5  |
| Wichita M.     | eP  | 39    | 13:6 | eDP | 29:6     | 10165 | 91:5  |
| Arequipa       | FE  | 45    | 46:3 |     |          | 16165 | 145:5 |
| La Paz         | PKP |       | 50:7 | i   | 45 54:1  | 16465 | 148:2 |
| Penas          | PKP |       | 50:8 |     |          | 16410 | 147:7 |

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|  |      |       |                  |      |          |
|--|------|-------|------------------|------|----------|
| H = 05 <sup>h</sup> 00 <sup>mn</sup> 12 <sup>s</sup> |      |       | M = 4:6 (Rabaul) |      |          |
| Keravat  | e(P) | 05 00 | 45 <sup>D</sup>  | i(S) | 05 01 24 |
| Rabaul   | eP   |       | 46               | iS   | 12:1     |

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Nouvelles Hébrides

|                  |          |                      |  |          |          |      |      |
|------------------|----------|----------------------|--|----------|----------|------|------|
| 17° 3'S          | 167° 8'E | h = 33 <sup>km</sup> | H = 06 <sup>h</sup> 03 <sup>mn</sup> 17 <sup>s</sup> | (CGS)    |          |      |      |
| 17° 0'S          | 167° 9'E |                      | H = 06 <sup>h</sup> 03 <sup>mn</sup> 17 <sup>s</sup> | (Nouméa) |          |      |      |
| M = 3:8 (Nouméa) |          |                      |  |          |          |      |      |
| Port Vila        | 1P       | 06 03                | 28:8 <sup>D</sup>                                    | iS       | 06 03 39 | 89   | 0:7  |
| Lonorore         | 1P       |                      | 42:7 <sup>D</sup>                                    | iS       | 04 02:5  | 165  | 1:5  |
| Luganville       | 1P       |                      | 47:5 <sup>C</sup>                                    | iS       | 11:5     | 210  | 1:9  |
| Ouanaham         | 1P       | 04                   | 09:6 <sup>C</sup>                                    | iS       | 44       | 380  | 3:4  |
| Koumac           | 1P       |                      | 24:5 <sup>C</sup>                                    | iS       | 05 14:5  | 510  | 4:6  |
| Nouméa           | 1P       |                      | 33:9 <sup>C</sup>                                    | iS       | 32:5     | 565  | 5:1  |
| Brisbane         | eP       | 07                   | 18   | i        | 07 43    | 1900 | 17:1 |
| Warramunga       | eP       |                      | 59:5   |          |          |      |      |

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Région de la Nouvelle Bretagne

|  |    |       |                   |    |            |
|--|----|-------|-------------------|----|------------|
| H = 06 <sup>h</sup> 02 <sup>mn</sup> 55 <sup>s</sup> |    |       | M = 5:7 (Rabaul)  |    |            |
| Rabalanakala   | 1P | 06 03 | 31:3              |    |            |
| Rabaul   | 1P |       | 31:8 <sup>D</sup> | iS | 06 03 59:5 |
| Wanliss street                                       | 1P |       | 32                |    |            |
| Keravat  | 1P |       | 32:5 <sup>D</sup> | iS | 59         |
| Esa'Ala  | eP | 04    | 14:5 <sup>D</sup> | eS | 05 16      |

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Port Moresby IP 06 04 52° 3D es 06 06 24

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Région de la Nouvelle Bretagne

H = 06<sup>h</sup>14<sup>mn</sup>02<sup>s</sup> M = 4° 1 (Rabaul)

|              |    |             |    |             |
|--------------|----|-------------|----|-------------|
| Keravat      | IP | 06 14 33° 5 | IS | 06 15 05° 5 |
| Rabaul       | IP | 39° 9       | IS | 08° 2       |
| Esa'Ala      | IP | 15 07       |    |             |
| Port Moresby | IP | 21° 4D      | es | 16 25       |

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Iles Loyauté

22° 0S, 170° 2E H = 06<sup>h</sup>26<sup>mn</sup>54<sup>s</sup>  
M = 3° 5 (Nouméa)

|          |     |             |    |          |
|----------|-----|-------------|----|----------|
| Ouanaham | eIP | 06 27 39° 2 | IS | 06 28 13 |
| Nouméa   | IP  | 47° 0C      | IS | 28       |
| Koumac   | IP  | 28 18° 3    | IS | 29 24    |

Inscrit à Port Vila.

XII. 21 janvier  
Nouvelles Hébrides (Iles Banks)

13° 1S, 167° 0E H = 07<sup>h</sup>40<sup>mn</sup>38<sup>s</sup>  
M = 4° 1 (Nouméa)

|                 |     |             |    |          |
|-----------------|-----|-------------|----|----------|
| Luganville      | eIP | 07 41 06° 7 |    |          |
| Lonorore        | IP  | 16° 6       | IS | 07 41 48 |
| Port Vila       | eIP | 45° 1       | IS | 42 38° 5 |
| Koumac          | IP  | 42 20° 8C   | IS | 43 40    |
| Ouanaham        | IP  | 24° 2C      | IS | 45° 5    |
| Nouméa          | IP  | 47° 6C      | IS | 44 29° 5 |
| Brisbane        | IP  | 45 01       |    |          |
| Charters Towers | IP  | 16° 9       |    |          |
| South Pole      | eP  | 52 21° 4    |    |          |

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Sud des Iles Fidji

25° 2S, 179° 4E h = 549km H = 09<sup>h</sup>10<sup>mn</sup>28<sup>s</sup> (CGS)  
M = 5° 1 (Adelaide), 4° 5 (Uinta Basin), 4° 3 (Eureka),  
4° 2 (CGS), 4° 0 (Ton to Forest), 3° 8 (Blue M,  
Dugway).

|                 |    |              |  |      |       |
|-----------------|----|--------------|--|------|-------|
| Ouanaham        | IP | 09 13 05° 5C |  | 1335 | 12° 0 |
| Luganville      | IP | 34° 5C       |  | 1665 | 15° 0 |
| Koumac          | IP | 34° 6C       |  | 1635 | 14° 7 |
| Brisbane        | IP | 14 59° 6     |  | 2655 | 23° 9 |
| Canberra        | eP | 15 35        |  | 3110 | 23° 0 |
| Charters Towers | IP | 16 00° 8     |  | 3445 | 31° 0 |
| Port Moresby    | IP | 30C          |  | 3820 | 34° 4 |
| Adelaide        | IP | 44° 6        |  | 4035 | 36° 5 |

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|              |      |    |    |      |   |    |    |       |       |
|--------------|------|----|----|------|---|----|----|-------|-------|
| Warramunga   | EP   | 09 | 17 | 23°5 |   |    |    | 4645  | 41°8  |
| Glamis       | P    |    | 22 | 07   |   |    |    | 9480  | 85°3  |
| Tucson       | EP   |    |    | 18°2 |   |    |    | 9745  | 87°7  |
| Eureka       | IP   |    |    | 19°8 |   |    |    | 9800  | 88°2  |
| Tonto Forest | EP   |    |    | 21°2 |   |    |    | 9820  | 88°8  |
| Blue M.      | EP   |    |    | 29°7 |   |    |    | 10055 | 90°5  |
| Dugway       | EP   |    |    | 30°4 |   |    |    | 10065 | 90°8  |
| Junta Basin  | EP   |    |    | 40°4 |   |    |    | 10300 | 92°7  |
| South Pole   | EP   |    |    | 44°1 | i | 09 | 23 | 21°4  |       |
| Uppsala      | PKP  |    | 28 | 55   |   |    |    | 15900 | 143°1 |
| Uddeholm     | IPKP |    |    | 57°2 |   |    |    |       |       |

inscrit à Port Vila, Nouméa, Moxa, Taranto.

XIV. 21 janvier  
Nouvelles Hébrides (Ile Vaté)

H = 09<sup>h</sup>42<sup>mn</sup>09<sup>s</sup> (Nouméa)

|            |     |    |    |                   |    |    |    |      |
|------------|-----|----|----|-------------------|----|----|----|------|
| Port Vila  | IP  | 09 | 42 | 23°5 <sup>D</sup> | 1S | 09 | 42 | 35°5 |
| Lonore     | eIP |    |    | 39°1              | 1S |    | 43 | 01   |
| Luganville | eIP |    |    | 45°7              | 1S |    |    | 13°5 |

XV. 21 janvier  
Wtwatersrand

26°3<sup>S</sup>, 27°9<sup>E</sup> H = 10<sup>h</sup>26<sup>mn</sup>58<sup>s</sup>

M = 3°1 (Bulawayo)

|          |     |    |    |    |     |    |    |    |
|----------|-----|----|----|----|-----|----|----|----|
| Bulawayo | epn | 10 | 27 | 54 | eSg | 10 | 29 | 30 |
| Karoi    | ep  |    | 28 | 38 | eL  |    | 31 | 20 |

XVI. 21 janvier  
Sud de la Province de Sopala (Mozambique)

21°2<sup>S</sup>, 33°4<sup>E</sup> H = 11<sup>h</sup>13<sup>mn</sup>40<sup>s</sup>

M = 3°2 (Bulawayo)

|          |     |    |    |    |     |    |    |    |
|----------|-----|----|----|----|-----|----|----|----|
| Bulawayo | epn | 11 | 15 | 50 | 1Sg | 11 | 17 | 00 |
| Karoi    | epn |    | 16 | 03 | eSg |    |    | 34 |

XVII. 21 janvier  
Région de la Nouvelle Bretagne

H = 11<sup>h</sup>40<sup>mn</sup>37<sup>s</sup> M = 5°0 (Rabaul)

|              |    |    |    |      |    |    |    |      |
|--------------|----|----|----|------|----|----|----|------|
| Keravat      | IP | 11 | 41 | 25°5 | 1S | 11 | 42 | 04   |
| Rabaul       | EP |    |    | 25°5 | 1S |    |    | 02°6 |
| Esapala      | IP |    |    | 56   | 1S |    |    | 37   |
| Port Moresby | EP |    | 42 | 32°5 | eS |    | 43 | 43   |

XVIII. 21 janvier  
Turquie occidentale

37°2<sup>N</sup>, 27°7<sup>E</sup> H = 11<sup>h</sup>48<sup>mn</sup>46<sup>s</sup> (Athènes)

|           |      |    |    |                   |       |    |    |      |     |     |
|-----------|------|----|----|-------------------|-------|----|----|------|-----|-----|
| Rhodes    | eIPg | 11 | 49 | 07°3 <sup>C</sup> | eISn  | 11 | 49 | 19°6 | 110 | 1°0 |
| Paraskevi | epn  |    |    | 26                | e(Sg) |    | 50 | 05°5 | 260 | 2°3 |
| Vamos     | eIPb |    |    | 41                | eISg  |    | 49 | 44°8 | 380 | 3°4 |
| Athènes   | eIXg |    | 50 | 31°6              |       |    |    |      | 350 | 3°2 |

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XIX. 21 janvier  
Sicile

| République       |     | M                                | =                 | 3° 60 | (Roma)          |
|------------------|-----|----------------------------------|-------------------|-------|-----------------|
| H                | =   | 13 <sup>h</sup> 18 <sup>mn</sup> | (40) <sup>s</sup> | (ING) |                 |
| Messina          | Pn  | 13                               | 19                | 23° 5 | 1Sn 13 19 50° 8 |
| Me sina          | ING |                                  |                   | 42° 8 | 1Sg 54° 2       |
| Roma             | eSn | 20                               | 21                |       | e 20 48         |
| La Mourre        | eP  |                                  |                   | 29° 8 |                 |
| St Paul en Foret | eP  |                                  |                   | 31° 2 |                 |
| Lorg u es        | eP  |                                  |                   | 32° 5 |                 |
| Les Buteaux      | eP  | 21                               |                   | 21° 5 |                 |
| St Saulge        | eP  |                                  |                   | 22° 8 |                 |
| Sommée Lormes    | eP  |                                  |                   | 24° 7 |                 |
| Ga chy           | ePP |                                  |                   | 34° 1 |                 |

XX. 21 janvier  
Iles Tonga

| 16° 1S,     | 173° 9W  | h     | = | 33 <sup>km</sup> | H        | =        | 13 <sup>h</sup> 47 <sup>mn</sup> 10 <sup>s</sup> | (CGS)  |
|-------------|----------|-------|---|------------------|----------|----------|--|--------|
| M = 4° 8    | (Bozeman | SSS), |   | 4° 3             | (Wichita | M),      | 4° 2   | (CGS), |
| 4° 1 (Uinta | Basin),  | 4° 0  |   | (Ton to          | Forest,  | Blue M), | 3° 9   |        |
| (Dugway).   |          |       |   |                  |          |          |  |        |

|                |      |    |    |       |    |    |    |    |       |        |
|----------------|------|----|----|-------|----|----|----|----|-------|--------|
| Afiama lu      | eP   | 13 | 47 | 55    | eS | 13 | 48 | 27 | 335   | 3° 0   |
| Brisbane       | iP   |    | 53 | 41° 5 |    |    |    |    | 3645  | 32° 8  |
| Ton to Forest  | eP   |    | 59 | 05° 5 |    |    |    |    | 8645  | 77° 8  |
| Eureka         | eP   |    |    | 05° 5 |    |    |    |    | 8590  | 77° 3  |
| Blue M.        | eP   |    |    | 14° 2 |    |    |    |    | 8835  | 79° 5  |
| Dugway         | eP   |    |    | 15° 7 |    |    |    |    | 8855  | 79° 7  |
| Uinta Basin    | eP   |    |    | 27° 9 |    |    |    |    | 9100  | 81° 9  |
| College        | eP   |    |    | 34    |    |    |    |    | 9245  | 83° 2  |
| Bozeman SSS    | eP   |    |    | 34° 5 |    |    |    |    | 9245  | 83° 2  |
| Wichita M.     | eP   |    |    | 54° 8 |    |    |    |    | 9710  | 87° 4  |
| Collm          | PKP  | 14 | 06 | 43    |    |    |    |    | 16045 | 144° 4 |
| Niedzica       | ePKP |    |    | 45° 6 |    |    |    |    |       |        |
| Bensberg       | PKP  |    |    | 46    |    |    |    |    | 16135 | 145° 2 |
| Moxa           | PKP  |    |    | 46° 5 |    |    |    |    | 16145 | 145° 3 |
| Pruhonic e     | PKP  |    |    | 47    |    |    |    |    | 16165 | 145° 5 |
| Kasperské Hory | PKP  |    |    | 50    |    |    |    |    | 16280 | 146° 5 |
| Sommée Lormes  | PKP  |    |    | 56° 4 |    |    |    |    | 16545 | 148° 9 |
| St Saulge      | PKP  |    |    | 56° 8 |    |    |    |    | 16555 | 149° 0 |
| Les Buteaux    | ePKP |    |    | 57°   |    |    |    |    |       |        |

inscrit à Taranto.

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Grèce

| 33° 4N, | 23° 2E | H  | =  | 13 <sup>h</sup> 55 <sup>mn</sup> 33 <sup>s</sup> | M    | =  | 3° 7  | (Athènes) |    |      |
|---------|--------|----|----|--|------|----|-------|-----------|----|------|
| Athènes | eiPg   | 13 | 58 | 50   | ei g | 13 | 58    | 59° 7     | 70 | 0° 6 |
| Patras  | ePn    |    |    | 59° 8  | eiSg | 59 | 15° 7 | 125       |    | 1° 1 |

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|           |      |    |    |        |      |    |    |       |     |      |
|-----------|------|----|----|--------|------|----|----|-------|-----|------|
| Paraskevi | ePn  | 13 | 59 | 19° 1  | e1Sg | 13 | 59 | 58° 5 | 270 | 2° 4 |
| Vamos     | e1Pn |    |    | 23° 5D | e1Sb | 14 | 00 | 11    | 340 | 3° 1 |

|            |           |    |          |                  |    |    |  |          |     |      |
|------------|-----------|----|----------|------------------|----|----|--|----------|-----|------|
|            | XXII.     | 21 | janvier  |                  |    |    |  |          |     |      |
|            | Nouvelles |    | Hébrides |                  |    |    |  |          |     |      |
| 16° 9S,    | 168° 4E   | h  | =        | 33 <sup>km</sup> | H  | =  | 14 <sup>h</sup> 33 <sup>mn</sup> 10 <sup>s</sup> | (CGS)    |     |      |
| 16° 8S,    | 168° 5E   |    |          |                  | H  | =  | 14 <sup>h</sup> 33 <sup>mn</sup> 10 <sup>s</sup> | (Nouméa) |     |      |
| Port Vila  | iP        | 14 | 38       | 23° 2C           | iS | 14 | 38   | 35       | 90  | 0° 8 |
| Lonorore   | eP        |    |          | 23° 4            | iS |    |  | 44° 5    | 120 | 1° 1 |
| Luganville | iP        |    |          | 39° 2C           | iS | 39 | 02   |          | 200 | 1° 8 |
| Ouanaham   | iP        |    | 39       | 10° 2C           |    |    |  |          | 445 | 4    |
| Koumac     | iP        |    |          | 30° 5            | iS | 40 | 31   |          | 590 | 5° 3 |
| Nouméa     | eP        |    |          | 36° 4            | iS |    | 42   |          | 635 | 5° 7 |

|                |  |    |             |        |          |    |    |          |  |  |
|----------------|--|----|-------------|--------|----------|----|----|----------|--|--|
|                | XXIII.   | 21 | janvier     |        |          |    |    |          |  |  |
|                | Région de  |    | la Nouvelle |        | Bretagne |    |    |          |  |  |
| H =            | 14 <sup>h</sup> 49 <sup>mn</sup> 20 <sup>s</sup> |    |             | M =    | 3° 8     |    |    | (Rabaul) |  |  |
| Keravat        | iP   | 14 | 49          | 44° 5D | iS       | 14 | 50 | 02       |  |  |
| Rabalanakafia  | iP   |    |             | 44° 5D |          |    |    |          |  |  |
| Wanliss Street | eP   |    |             | 44° 8D |          |    |    |          |  |  |
| Rabaul         | eP   |    |             | 45D    | iS       |    |    | 04       |  |  |

|            |  |    |          |        |                      |    |    |       |  |  |
|------------|--|----|----------|--------|----------------------|----|----|-------|--|--|
|            | XXIV.  | 21 | janvier  |        |                      |    |    |       |  |  |
|            | Nouvelles  |    | Hébrides |        | (Ile Espiritu Santo) |    |    |       |  |  |
| H =        | 15 <sup>h</sup> 41 <sup>mn</sup> 51 <sup>s</sup> |    | (Nouméa) |        |                      |    |    |       |  |  |
| Lonorore   | iP   | 15 | 42       | 13° 6  | iS                   | 15 | 42 | 29° 5 |  |  |
| Luganville | iP   |    |          | 15° 1  | iS                   |    |    | 33    |  |  |
| Port Vila  | iP   |    |          | 25° 2D | iS                   |    |    | 51° 5 |  |  |

|                |  |    |             |        |          |    |    |          |  |  |
|----------------|--|----|-------------|--------|----------|----|----|----------|--|--|
|                | XXV.   | 21 | janvier     |        |          |    |    |          |  |  |
|                | Région de  |    | la Nouvelle |        | Bretagne |    |    |          |  |  |
| H =            | 15 <sup>h</sup> 51 <sup>mn</sup> 39 <sup>s</sup> |    |             | M =    | 4° 0     |    |    | (Rabaul) |  |  |
| Keravat        | iP   | 15 | 52          | 04° 5D | iS       | 15 | 52 | 21       |  |  |
| Wanliss Street | eP   |    |             | 06     |          |    |    |          |  |  |
| Rabaul         | e1P  |    |             | 06     | iS       |    |    | 25       |  |  |
| Rabalanakafia  | iP   |    |             | 07D    |          |    |    |          |  |  |

|            |                         |                           |                                    |                      |              |  |        |  |  |  |
|------------|-------------------------|---------------------------|------------------------------------|----------------------|--------------|--|--------|--|--|--|
|            | XXVI.                   | 21                        | janvier                            |                      |              |  |        |  |  |  |
|            | Au Nord                 |                           | de l'île                           |                      | Ascension    |  |        |  |  |  |
| 1° 2S,     | 14° 0W                  | h                         | =                                  | 33 <sup>km</sup>     | H =          | 16 <sup>h</sup> 42 <sup>mn</sup> 29° 2S          | (CGS)  |  |  |  |
| 1° 8S,     | 12° 5W                  |                           |                                    |                      | H =          | 16 <sup>h</sup> 42 <sup>mn</sup> 34 <sup>s</sup> | (URSS) |  |  |  |
| M =        | 6° 7                    | (Roma, Strasbourg),       | 6° 5 - 6° 9                        | (Berkeley, De Bilt), |              |  |        |  |  |  |
| 6° 5       | (Lvov),                 | 6° 3 - 6° 5               | (Moxa),                            | 6 1/4                | (Palisades), |  |        |  |  |  |
| 6° 2       | (URSS, Pasadena),       | 6° 1                      | (Uppsala, Kiruna, presa Benito J), |                      |              |  |        |  |  |  |
| 6° 0       | (Stuttgart, Bensberg),  | 5° 8                      | (Pretoria, København),             | 5° 8                 |              |  |        |  |  |  |
| (Caracas), | 5° 6                    | (Georgetown, Wilchita M), | 5° 5                               | (Windhoek),          |              |  |        |  |  |  |
| 5° 3       | (Albuquerque, Nairobi), | 5° 1                      | (Kajaani, Uinta Basin),            |                      |              |  |        |  |  |  |

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|                     | 4°9 | (Eureka), | 4°7 | (Dugway),         | 4°1  | (Tonto | Forest). |      |      |      |
|---------------------|-----|-----------|-----|-------------------|------|--------|----------|------|------|------|
| M <sup>i</sup> Bour | iP  | 16        | 46  | 08                | iS   | 16     | 48       | 45   | 1745 | 15°7 |
| Lomé                | iP  |           |     | 20                | L    | 50     | -        |      |      |      |
| Natal               | iP  |           | 47  | 15                |      |        |          |      | 2380 | 21°4 |
| Moca                | eP  |           |     | 30°3              | i    | 47     | 41°1     |      | 2565 | 23°1 |
| Tamanrasset         | eP  |           | 48  | 39                |      |        |          |      | 3390 | 30°5 |
| Ténérife            | iP  |           |     | 40°8 <sup>D</sup> |      |        |          |      | 3280 | 29°5 |
| Ifrane              | P   |           | 49  | 25°5              |      |        |          |      | 3945 | 35°5 |
| Rabat Zaers         | eP  |           |     | 30                |      |        |          |      | 3945 | 35°5 |
| Rabat               | P   |           |     | 34                |      |        |          |      | 3955 | 35°6 |
| Windhoek            | iP  |           |     | 43°8              |      |        |          |      | 4100 | 38°9 |
| Malaga              | iP  |           |     | 52                | iS   | 55     | 52       |      | 4310 | 38°8 |
| Almería             | eP  |           | 50  | 03                | eX   | 56     | 05       |      | 4370 | 39°3 |
| Lisboa              | P   |           |     | 10°1              | (LR) | 17     | 02°4     | -    | 4440 | 40°0 |
| Sétif               | iP  |           |     | 13 <sup>D</sup>   | i    | 16     | 50       | 20   | 4590 | 41°3 |
| Toledo              | iP  |           |     | 16                | i    |        |          | 40°5 | 4645 | 41°8 |
| Alicante            | iP  |           |     | 20                | e    | 52     | 10       |      | 4580 | 41°2 |
| Porto               | iP  |           |     | 33 <sup>D</sup>   | iS   | 56     | 40       |      | 4710 | 42°4 |
| Broken Hill         | iP  |           |     | 37                |      |        |          |      | 4890 | 44°0 |
| Bulawayo            | eP  |           |     | 41                | iP   | 50     | 52       |      | 5075 | 45°7 |
| Bagnères            | eP  |           |     | 41                | ei   |        | 49°5     |      | 5095 | 45°9 |
| Karoi               | iP  |           |     | 46                |      |        |          |      | 5065 | 45°6 |
| Pretoria            | eP  |           | 51  | 00°2              |      |        |          |      | 5285 | 47°4 |
| La Frestale         | eIP |           |     | 02°4              |      |        |          |      | 5310 | 47°8 |
| Le Pouchou          | eIP |           |     | 02°6              |      |        |          |      | 5295 | 47°6 |
| La Mourre           | eIP |           |     | 05°7              |      |        |          |      | 5335 | 48°0 |
| Lorgues             | eIP |           |     | 06°3              |      |        |          |      | 5340 | 48°1 |
| St Paul en Forêt    | eIP |           |     | 07°5              |      |        |          |      | 5365 | 48°  |
| Meisina             | iP  |           |     | 07°5              | i'pP | 51     | 16°5     |      | 5305 | 47°7 |
| Archi mac           | eIP |           |     | 08°2              |      |        |          |      | 5330 | 48°0 |
| Lanslevillard       | eP  |           |     | 13                | ei   |        | 35°2     |      | 5540 | 49°9 |
| Trinidad            | eP  |           |     | 13                |      |        |          |      | 5400 | 48°6 |
| Roseland            | eP  |           |     | 14                | ei   |        | 45       |      | 5570 | 50°1 |
| Isola               | iP  |           |     | 14°6              |      |        |          |      | 5435 | 48°9 |
| Toulx Ste Croix     | eIP |           |     | 14°9              |      |        |          |      | 5490 | 49°4 |
| Monteynard          | eP  |           |     | 16°5              | e    |        | 21°5     |      | 5465 | 49°2 |
| Monaco              | eP  |           |     | 17                | eS   | 58     | 17       |      | 5410 | 48°7 |
| St Saulge           | eP  |           |     | 17°3              |      |        |          |      | 5610 | 50°5 |
| Garchy              | eP  |           |     | 17°6 <sup>C</sup> | i    | 51     | 26°4     |      | 5615 | 50°6 |
| Grahamstown         | iP  |           |     | 17°7              |      |        |          |      | 5520 | 49°7 |
| Clermont            | iP  |           |     | 18                | iS   | 58     | 33       |      | 5460 | 49°1 |
| Sommée Lormes       | eIP |           |     | 19                |      |        |          |      | 5635 | 50°7 |
| Les Buteaux         | eIP |           |     | 22°8              |      |        |          |      | 5615 | 50°5 |
| Gorron              | eIP |           |     | 23°1              |      |        |          |      | 5635 | 50°7 |
| L'Aquila            | iP  |           |     | 24° <sup>C</sup>  | iS   |        | 32       |      | 5545 | 49°9 |
| Roma                | iP  |           |     | 25°2 <sup>D</sup> | iS   |        | 34       |      | 5455 | 49°1 |
| Chileka             | eP  |           |     | 26                | iSP  | 51     | 36       |      | 5600 | 50°4 |
| Le Pertre           | eIP |           |     | 27°5              |      |        |          |      | 5590 | 50°3 |
| Vouglans            | eP  |           |     | 29                | ei   |        | 33°9     |      | 5605 | 50°5 |
| Valsamata           | eP  |           |     | 30°4              |      |        |          |      | 5615 | 50°5 |
| St Sauveur          | eP  |           |     | 30°5              |      |        |          |      | 5665 | 51°0 |

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|                  |      |       |                   |       |          |  |      |      |
|------------------|------|-------|-------------------|-------|----------|--|------|------|
| Folinigre        | eP   | 16 51 | 31.3              |       |          |  | 5880 | 51.1 |
| Basel            | eP   |       | 34                |       |          |  | 5785 | 52.1 |
| Nairobi          | iP   |       | 34.6 <sup>C</sup> |       |          |  | 5645 | 50.8 |
| Haudompre        | eIP  |       | 34.9              |       |          |  | 5790 | 52.1 |
| Pavia            | eP   |       | 35                | eS    | 16 58 57 |  | 5615 | 50.6 |
| Besancon         | eIP  |       | 37.2              | eI    | 51 54.6  |  | 5705 | 51.3 |
| Champ du Feu     | eIP  |       | 39.4              |       |          |  | 5860 | 52.7 |
| Trieste          | iP   |       | 42.3 <sup>C</sup> | iS    | 59 09    |  | 5855 | 52.7 |
| La Plata         | iP   |       | 44                | iS    | 20.8     |  | 5880 | 52.9 |
| Ljubljana        | eIP  |       | 44.3              | e(PP) | 54 11    |  | 5930 | 53.4 |
| Athènes          | eP   |       | 44.8 <sup>C</sup> | iS    | 59 06    |  | 5800 | 52.2 |
| Strasbourg       | eP   |       | 45 <sup>C</sup>   | eI!S  | 14       |  | 5895 | 53.1 |
| Buhlerhohe       | eP   |       | 47                |       |          |  | 5920 | 53.3 |
| Addis Ababa      | eP   |       | 48 <sup>D</sup>   |       |          |  | 5945 | 53.5 |
| Valentia         | eP   |       | 50                | iS    | 12       |  | 5890 | 53.0 |
| Padova           | e(P) |       | 50                | eS    | 20       |  | 5750 | 51.8 |
| Stuttgart        | eP   |       | 51.9              |       |          |  | 5965 | 53.7 |
| Helwan           | eP   |       | 52                | iS    | 16       |  | 5900 | 53.1 |
| Fürstenfeldbruck | eP   |       | 52                |       |          |  | 5980 | 53.8 |
| Caracas          | eP   |       | 52.9 <sup>C</sup> |       |          |  | 5990 | 53.9 |
| Karlsruhe        | eP   |       | 53                |       |          |  | 5955 | 53.6 |
| Luxembourg       | P    |       | 54                | (S)   | 03       |  | 5945 | 53.5 |
| Rhodes           | eP   |       | 56                |       |          |  | 6025 | 54.2 |
| Moxa             | eP   |       | 57.5              | i(S)  | 58       |  | 6230 | 56.1 |
| San Juan         | iP   |       | 59                | i     | 40       |  | 6090 | 54.8 |
| Erlangen         | eP   |       | 59.3              | e     | 52 42.8  |  | 6125 | 55.1 |
| Zagreb           | eP   | 52    | 00                | eS    | 59 19.1  |  | 5965 | 53.7 |
| Kasperské Hory   | P    |       | 00                |       |          |  | 6165 | 55.5 |
| Penas            | eP   |       | 00.6              | (S)   | 58       |  | 6185 | 55.7 |
| Bensberg         | eP   |       | 01                | eS    | 40       |  | 6110 | 55.0 |
| Paraskevi        | eP   |       | 01.6              |       |          |  | 6065 | 54.6 |
| Sofia            | iP   |       | 04.4              | i(S)  | 57.3     |  | 6120 | 55.1 |
| Beograd          | eP   |       | 04.7              | iS    | 53.6     |  | 6120 | 55.1 |
| Uccle            | P    |       | 05                | S     | 35       |  | 6010 | 54.1 |
| Wien_Kobenzl     | eP   |       | 05                | i     | 52 19.5  |  | 6200 | 55.8 |
| La Paz           | eP   |       | 07.5              |       |          |  | 6155 | 55.4 |
| Istanbul UTI     | eP   |       | 08                | i     | 18       |  | 6370 | 57.3 |
| Bratislava       | eIP  |       | 08.1              | eI    | 53 09.6  |  | 6235 | 56.1 |
| Wien             | iP   |       | 08.7 <sup>D</sup> |       |          |  | 6205 | 55.9 |
| Pruhonice        | eP   |       | 09                | eS    | 17 00 04 |  | 6280 | 56.5 |
| Srobarova        | eIP  |       | 10                | eI    | 16 53 11 |  | 6260 | 56.3 |
| De Bilt          | eP   |       | 11                | eS    | 59 55    |  | 6170 | 55.5 |
| Durham           | iP   |       | 13                | iS    | 17 00 04 |  | 6300 | 56.7 |
| Praha            | iP   |       | 13                | e(S)  | 16 55 46 |  | 6280 | 56.5 |
| Collm            | eP   |       | 13                | e     | 52 18    |  | 6345 | 57.1 |
| Budapest         | eP   |       | 14                |       |          |  | 6265 | 56.4 |
| Wittween         | P    |       | 15                |       |          |  | 6285 | 56.5 |
| Jérusalem        | eP   |       | 18                | eS    | 17 00 12 |  | 6320 | 56.9 |
| Raciborz         | eP   |       | 20                | eL    | 13 --    |  | 6450 | 58.2 |
| Niedzica         | eP   |       | 23                |       |          |  | 6495 | 58.4 |
| Ksara            | iP   |       | 24                | iS    | 00 38    |  | 6485 | 58.4 |
| Bermuda_Columbia | iP   |       | 24                | iS    | 29       |  | 6480 | 58.3 |

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|                   |      |                    |    |          |      |       |
|-------------------|------|--------------------|----|----------|------|-------|
| An to fagasta     | eP   | 16 52 25           | eS | 17 00 35 | 6555 | 59°0  |
| Chorzowa          | eP   | 27                 |    |          | 6505 | 58°5  |
| Krakow            | eP   | 27                 | e  | 33       | 6525 | 58°7  |
| Heligoland        | e(P) | 52° 5--            |    |          | 6455 | 58°1  |
| Vrincioaia        | P    | 52 31 <sup>C</sup> |    |          | 6580 | 59°0  |
| Iasi              | P    | 32° 5              | i  | 16 53 34 | 6705 | 60°3  |
| Campulung         | e(P) | 33                 |    |          | 6410 | 57°7  |
| Bogota            | iP   | 35                 | iS | 17 00 42 | 6700 | 60°3  |
| Focsani           | P    | 35                 |    |          | 6575 | 59°2  |
| Fuquene           | iP   | 36                 |    |          | 6665 | 60°0  |
| Lvov              | eP   | 37                 | eS | 43       | 6710 | 60°4  |
| Peldehue          | eP   | 40                 | eS | 01 08    | 6870 | 61°8  |
| Köbenhavn         | iP   | 43° 8              | i  | 02 38    | 6735 | 60°6  |
| Chinchina         | iP   | 45                 |    |          | 6880 | 61°9  |
| Santiago          | eP   | 46° 5              |    |          | 6880 | 61°9  |
| Huancayo          | eP   | 47                 |    |          | 6865 | 61° 8 |
| Kæ lskrona        | iP   | 47                 |    |          | 6890 | 62°0  |
| Goteborg          | iP   | 54° 1              |    |          | 6920 | 62°3  |
| Kongsberg         | iP   | 55° 5              |    |          | 7045 | 63° 4 |
| Galerazamba       | i(P) | 59                 |    |          | 6900 | 62° 1 |
| Tananarive        | e(P) | 53 00              |    |          | 6975 | 62°8  |
| Uddeholm          | iP   | 01°7               |    |          | 7200 | 64° 8 |
| Nana              | eP   | 03                 |    |          | 7020 | 63°2  |
| Quito             | P    | 04                 | S  | 01 44    | 7165 | 64°5  |
| Uppsala           | iP   | 07° 5              | iS | 55       | 7300 | 65°7  |
| Lillehammer       | iP   | 10° 5              |    |          | 7210 | 64°9  |
| Sotchi            | iP   | 16                 |    |          | 7270 | 65° 4 |
| Skalstugan        | iP   | 22° 2              |    |          | 7500 | 67° 5 |
| Kermanshah        | eP   | 23                 |    |          | 7455 | 67° 1 |
| Weston            | eP   | 24                 |    |          | 7480 | 67°3  |
| Bakouriani        | eP   | 24° 1              |    |          | 7465 | 67°2  |
| Tabriz            | eP   | 26                 | e  | 02 30    | 7535 | 67°8  |
| Poti              | eP   | 27                 |    |          |      |       |
| Akureyri          | e(P) | 29                 |    |          | 7420 | 66°8  |
| Nurmijaerwi       | iP   | 29° 8              | eS | 30       | 7600 | 68°4  |
| Tbilisi           | P    | 30                 | S  | 28       | 7560 | 68°0  |
| Goris             | eP   | 30                 |    |          | 7590 | 68°3  |
| Palisades         | eP   | 31                 | iS | 33       | 7610 | 68°5  |
| Uméa              | iP   | 35° 7              |    |          | 7735 | 69° 6 |
| Kirovabad         | P    | 38                 | iS | 41       | 7624 | 68°7  |
| Washington        | eP   | 41° 9              |    |          | 7800 | 70°2  |
| Georgetown        | iP   | 42                 | eS | 51       | 7790 | 70°1  |
| Brébeuf           | eP   | 44                 |    |          | 7790 | 70°1  |
| Moskwa            | iP   | 45 <sup>C</sup>    | iS | 53       | 7835 | 70°5  |
| Poulkovo          | iP   | 46 <sup>C</sup>    | S  | 51       | 7765 | 69°9  |
| Makhachkala       | iP   | 48                 | iS | 03 03    | 7815 | 70°3  |
| Téhéran           | eP   | 48                 |    |          | 7880 | 70°9  |
| Novo_Lazarevskaya | eP   | 49                 |    |          | 7940 | 71°5  |
| Kajaani           | eP   | 50                 | i  | 16 53 55 | 7990 | 71°9  |
| Ottawa            | eP   | 50                 |    |          | 7935 | 71°4  |
| Oulu              | eP   | 52                 |    |          | 8020 | 72°2  |



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|-------------------|------|-------|-------------------|------|-------|-------|-------|------|
| Bakou             | P    | 16 53 | 55 <sup>C</sup>   |      |       |       | 7910  | 71°2 |
| Morgan town       | 1P   |       | 57 <sup>C</sup>   |      |       |       | 8055  | 72°5 |
| Black Rapids      | eP   |       | 58                | S    | 17 03 | 20    | 8010  | 72°1 |
| Argentine Island  | P    | 54    | 01                |      |       |       | 8145  | 73°3 |
| Kiruna            | 1P   |       | 01·6              |      |       |       | 8100  | 72°9 |
| Sodankylä         | eP   |       | 02                |      |       |       | 8230  | 74°1 |
| Cumberland Pl.    | eP   |       | 03·6              |      |       |       | 8420  | 75°8 |
| Oak Ridge         | eP   |       | 08·1              |      |       |       | 8320  | 74°9 |
| Kevo              | eP   |       | 15·5              | eS   | 04    | 00    | 8435  | 75°9 |
| Ann Arbor         | 1P   |       | 16                | S    | 03    | 57    | 8435  | 75°9 |
| La Palma          | eP   |       | 16                |      |       |       | 8435  | 75°9 |
| Kizyl-Arvat       | i(P) |       | 21                | S    | 04    | 00    | 8395  | 75°6 |
| Achkhabad         | P    |       | 21·5              |      |       |       | 8545  | 76°9 |
| Apatity           | eP   |       | 22                |      |       |       | 8450  | 76°1 |
| Vannovskaya       | P    |       | 24                |      |       |       | 8520  | 76°7 |
| Mashad            | 1P   |       | 30 <sup>C</sup>   | eS   | 17 04 | 20    | 8610  | 77°5 |
| Dubuque           | P    |       | 43·9              |      |       |       | 9000  | 81°0 |
| Presa Benito J.   | eP   |       | 47·2              |      |       |       | 9120  | 82°1 |
| Quetta            | eP   |       | 54·5              | 1S   | 05    | 14    | 9190  | 82°7 |
| Vista Hermosa     | 1P   |       | 55                |      |       |       | 9265  | 83°4 |
| Sverdlovsk        | 1P   |       | 55                | S    |       | 10    | 9180  | 82°6 |
| Lawrence          | eP   |       | 56·2              |      |       |       | 9320  | 83°9 |
| Tulsa             | eP   |       | 58                |      | 07    | 25    | 9335  | 84°0 |
| Manhattan         | eP   | 55    | 02                |      |       |       | 9445  | 85°0 |
| Samarkand         | eP   |       | 02                |      |       |       | 9315  | 83°8 |
| Karachi           | e(P) |       | 03·8              |      |       |       | 9150  | 82·4 |
| Wichita M.        | eP   |       | 07·2              | eS   | 05    | 50    | 9580  | 86°2 |
| Tachkent          | eP   |       | 07·5              |      |       |       | 9525  | 85°7 |
| Douchambé         | eP   |       | 10                |      |       |       | 9455  | 85°1 |
| Bam               | eP   |       | 10·2              |      |       |       | 9590  | 86°3 |
| Nat.Univ.Mexico   | 1P   |       | 13                | i    |       | 41    | 9535  | 85°8 |
| Tacubaya          | eP   |       | 13                | e    | 06    | 44    | 9545  | 85°9 |
| Warsak            | 1P   |       | 13·5 <sup>D</sup> |      |       |       | 9650  | 86°9 |
| Presa Infiernillo | eP   |       | 18                |      |       |       | 9820  | 88°4 |
| Bombay            | eP   |       | 18                | eSKS | 05    | 54    | 9710  | 87°4 |
| Poona             | eP   |       | 19                | eS   |       | 54    | 9810  | 88°3 |
| Lubbock           | eP   |       | 22                | eS   |       | 56    | 9880  | 88°9 |
| Frounze           | eP   |       | 27                | eS   | 06    | 06    | 9975  | 89°8 |
| Kodaikanal        | eP   |       | 27                |      |       |       | 10185 | 91°7 |
| Byrd              | eP   |       | 32·9              | e    | 16 56 | 35·7  | 10165 | 91°5 |
| Albuquerque       | eP   |       | 36                | e    |       | 55 53 | 10300 | 92°7 |
| New Dehli         | eP   |       | 40                | eSKS | 17 06 | 10    | 10180 | 91°6 |
| Dehra Dun         | 1P   |       | 40·2              |      |       |       | 10260 | 92°4 |
| Semipalatinsk     | eP   |       | 46·3              |      |       |       | 10405 | 93°6 |
| Uinta Basin       | eP   |       | 50·3              | eSKS |       | 36    | 10555 | 95°0 |
| Tucson            | eP   |       | 55                | e    | 06    | 40    | 10710 | 96°4 |
| Bozeman SSS       | eP   |       | 55·5              | e    |       | 40    | 10690 | 96°2 |
| Coppermine        | eP   |       | 56·5              |      |       |       | 10590 | 95°3 |
| Tonto Forest      | eP   |       | 58·3              | eS   | 07    | 15    | 10745 | 96°7 |
| Dugway            | eP   | 56    | 01·8              | e    | 16 56 | 07·6  | 10835 | 97°5 |
| Hungry Horse      | eP   |       | 05·7              |      |       |       | 10845 | 97°6 |
| Nordman           | eP   |       | 10                |      |       |       | 11045 | 99°4 |

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|                 |       |       |      |       |       |       |       |       |
|-----------------|-------|-------|------|-------|-------|-------|-------|-------|
| Newport         | eP    | 16 56 | 14   | eL    | 17 00 | 14    | 11065 | 99'6  |
| Bokaro          | eP    |       | 17   | i     |       | 14 49 | 11050 | 99'5  |
| Eureka          | iP    |       | 18   |       |       |       | 11110 | 100'0 |
| Pasadena        | eP    |       | 31   | e(PP) | 00    | 28    | 11380 | 102'4 |
| Oroville        | eP    |       | 33'2 | e     |       | 56    | 11580 | 104'2 |
| Jamestown       | eP    |       | 34'6 | D e   |       | 46    | 11530 | 103'7 |
| San Luis Dam    | eP    |       | 35'5 | ePP   |       | 58'1  | 11600 | 104'4 |
| Berkeley        | eP    |       | 42'D | ePP   |       | 58    | 11680 | 105'1 |
| College         | PP    | 17 01 | 18   | i     | 09    | 06    | 12035 | 108'3 |
| Matsushiro      | PKP   |       | 50   |       |       |       | 15155 | 136'4 |
| Adélaïde        | PKP   |       | 54   |       |       |       | 15100 | 135'9 |
| Warramunga      | PKP   |       | 59   |       |       |       | 15835 | 142'5 |
| Valdivia        | eS    | 02 00 |      | L     | 14    | 00    | 7335  | 66'0  |
| Canberra        | PKP   |       | 01   | e     | 23    | 14    | 15600 | 140'4 |
| Tasmanian Univ. | (PKP) |       | 04   | e     | 21    | 24    | 14780 | 133'0 |
| Davao           | PKP   |       | 04   |       |       |       | 15480 | 139'3 |
| Brisbane        | PKP   |       | 14'4 | i     | 05    | 54    | 16545 | 148'9 |
| Charters Towers | PKP   |       | 17   | i     | 25    | 27    | 16810 | 151'3 |
| Affamalu        | (PKP) |       | 29   | e     | 15    | 28    | 17045 | 153'4 |
| Esa Ala         | ePKP  |       | 36   |       |       |       | 17930 | 161'4 |
| Uméa            | iS    |       | 42   | iPS   | 03    | 06    | 7735  | 69'6  |

Inscrit à Pietermaritzburg - Rybnik - Messina ING. - Bucaresti -  
 Mt. Tsukuba - Chiraz - Port Blair - Trivandrum -  
 Shillong - Taranto - Ponta Delgada - Cuglieri -  
 Tortosa - Timisoar - Blue M. - Madras - Mt. Hamilton -  
 Mineral - Chatra - Guam - Port Moresby - Rabaul.

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Haute Silésie

|         |     |    |        |     |       |      |
|---------|-----|----|--------|-----|-------|------|
| Chorzow | eP  | 17 | 1628'7 |     |       |      |
| Zabrze  | e   |    | 29     |     |       |      |
| Dabrowa | e   |    | 31'2   | e   | 17 16 | 31'7 |
| Krakow  | ePg |    | 41'1D  | eSg |       | 51'7 |
| Rybnick | e   |    | 52     |     |       |      |

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Haute Silésie

|          |     |       |      |
|----------|-----|-------|------|
| Zabrze   | e   | 19 29 | 02'5 |
| Dabrowa  | e   |       | 07'3 |
| Niedzica | ePg |       | 27'9 |
| Krakow   | eSg |       | 31'1 |

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Basse Californie

24°4' N; 111°6' W; h = 33 km; H = 19h.44mn52s. (CGS)

M. = 4.8 (Tucson); 4.5 (Tonto Forest); 4.3 (Wichita M.); 3.9 (CGS);  
3.8 (Blue M.); 3.6 (Eureka); 3.5 (Digway); 3.3 (Uinta Basin)

|                |    |            |       |          |      |      |
|----------------|----|------------|-------|----------|------|------|
| Tucson         | eP | 19 46 47.2 |       |          | 880  | 7.9  |
| Tonto Forest   | eP | 47 15      |       |          | 1100 | 9.9  |
| Goldstone      | P  | 44         | e     | 19 47 50 | 1319 | 11.8 |
| Wichita M.     | eP | 48 27.1    | e(PP) | 48 37.6  | 1700 | 15.3 |
| Eureka         | iP | 35.6       |       |          | 1720 | 15.5 |
| Dugway         | eP | 38.2       |       |          | 1755 | 15.8 |
| Uinta Basin    | eP | 39.0       | ePP   | 49.4     | 1780 | 16.0 |
| Blue M.        | eP | 49 34.2    |       |          | 2320 | 20.9 |
| Bozeman SSS    | eP | 35.5       | e     | 50 08    | 2355 | 21.2 |
| Newport        | eP | 50 07      |       |          | 2690 | 24.2 |
| Cumberland Pl. | eP | 14.6       |       |          | 2790 | 25.1 |
| Mould Bay      | eP | 54 00      |       |          | 5790 | 52.1 |

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Essaim de Matsushiro (Japon)

36°29'N; 136°19'E; h = 10 km; H = 22h.43mn41.2s. (JMA)

|            |    |            |    |            |     |     |
|------------|----|------------|----|------------|-----|-----|
| Matsushiro | P  | 22 43 44.8 | S  | 22 43 46.5 | 12  | 0.1 |
| Nagano     | iP | 46.5       | S  | 49.5       | 22  | 0.2 |
| Kamizawa   | eP | 47.5       | eS | 52         | 26  | 0.2 |
| Maebashi   | iP | 54.3       | S  | 44 03.6    | 68  | 0.6 |
| Kofu       | iP | 58.5       | iS | 09.9       | 93  | 0.8 |
| Kumagaya   | eP | 44 02.6    |    |            | 103 | 0.9 |
| Abuyama    | eP | 27         |    |            |     |     |
| Hikone     | eS | 49.1       |    |            | 230 | 2.1 |

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Essaim de Matsushiro (Japon)

36°30'N; 136°16'E; h = 10 km; H = 22h.47mn54.6s. (JMA)

|            |    |            |    |          |    |     |
|------------|----|------------|----|----------|----|-----|
| Matsushiro | P  | 22 47 57.6 | S  | 22 47 59 | 8  | 0.1 |
| Nagano     | eP | 59.4       | S  | 48 02.6  | 19 | 0.2 |
| Kamizawa   | eP | 48 01.3    | eS | 05.7     | 31 | 0.3 |
| Matsumoto  | iP | 03.1       |    | 08.6     | 39 | 0.4 |

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Région de la Nouvelle Bretagne

5°0S; 150°8E; h = 185<sup>km</sup>; H = 22<sup>h.55<sup>mm</sup></sup>35.8<sup>S.</sup>(CGS)  
 5°1S; 151°2E; h = 131<sup>km</sup>; H = 22<sup>h.55<sup>mm</sup></sup>29<sup>S.</sup>(URSS)

M. = 6.9(Mundaring); 5.8(Port Moresby); 5.7(New Dehli);  
 5.5(Poona); 5.3(Qietta); 5.0(CGS - College - Eureka);  
 4.8(Palmer - Gilmore Creek); 4.8(Uinta Basin);  
 4.5(Blue M.); 4.2(Tonto Forest).

|                 |    |                         |    |          |      |      |
|-----------------|----|-------------------------|----|----------|------|------|
| Esa'Ala         | 1P | 22 56 45                | eS | 22 57 38 |      |      |
| Port Moresby    | 1P | 57 00.5                 | eS | 58 03    | 635  | 5.7  |
| Keravat         | 1P | 09                      |    |          |      |      |
| Honiara         | eP | 51.1                    |    |          | 1120 | 10.1 |
| Charters Towers | 1P | 59 08.8                 | 1S | 23 01 53 | 1735 | 15.6 |
| Luganville      | 1P | 47.3                    |    |          | 2120 | 19.1 |
| Guam            | eP | 52                      | eS | 03 24    | 2145 | 19.3 |
| Lonorore        | 1P | 55.3 <sup>C</sup>       |    |          | 2245 | 20.2 |
| Koumac          | 1P | 56.7 <sup>C</sup>       |    |          | 2255 | 20.3 |
| Port Vila       | 1P | 23 00 08.5 <sup>C</sup> |    |          | 2365 | 21.3 |
| Warramunga      | 1P | 13                      | e  | 07 27.5  | 2420 | 21.8 |
| Brisbane        | 1P | 19.2                    | 1S | 04 15    | 2480 | 22.3 |
| Ouanaham        | 1P | 19.6 <sup>C</sup>       |    |          | 2490 | 22.4 |
| Nouméa          | 1P | 24.3 <sup>C</sup>       |    |          | 2545 | 22.9 |
| Canberra        | 1P | 01 30.7 <sup>D</sup>    | e  | 07.49    | 3355 | 30.2 |
| Adélaïde        | 1P | 45                      |    |          | 3535 | 31.8 |
| Toolangi        | 1P | 53 <sup>C</sup>         | e  | 08 05    | 3645 | 32.8 |
| Savannah        | 1P | 02 27.5 <sup>C</sup>    |    |          | 4080 | 36.7 |
| Tarraleah       | 1P | 32.9                    |    |          | 4145 | 37.3 |
| Meekatharra     | 1P | 33.4 <sup>C</sup>       |    |          |      |      |
| Moorlands       | 1P | 33.4 <sup>C</sup>       |    |          | 4155 | 37.4 |
| Tasmanian Univ. | 1P | 37 <sup>C</sup>         | e  | 32       | 4210 | 37.9 |
| Mundaring       | 1P | 03 10.2                 |    |          | 4665 | 42.0 |
| Monowai         | eP | 19                      |    |          |      |      |
| Shiraki         | eP | 19.3                    |    |          | 4765 | 42.9 |
| Matsushiro      | P  | 20                      |    |          | 4780 | 43.0 |
| Tiputa          | eP | 05 35                   |    |          | 6810 | 61.3 |
| Terre Adélie    | 1P | 37.8                    |    |          | 6890 | 62.0 |
| Adak            | eP | 40.5                    |    |          | 7010 | 63.1 |
| Chittagong      | eP | 52                      |    |          |      |      |
| Shillong        | 1P | 57                      |    |          |      |      |
| Bodajbo         | 1P | 06 25 <sup>C</sup>      |    |          |      |      |
| Mimy            | 1P | 47                      |    |          | 8110 | 73.0 |
| Big Mountain    | eP | 07 09                   |    |          | 8555 | 77.0 |
| Tiksi           | eP | 13                      | SP | 00       |      |      |
| Dehra Dun       | 1P | 15 <sup>C</sup>         |    |          |      |      |
| Sparrevohn      | 1P | 15.1                    |    |          | 8645 | 77.8 |
| New Dehli       | 1P | 16.1                    |    |          | 8680 | 78.1 |

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|                   |                   |       |                    |     |             |       |        |
|-------------------|-------------------|-------|--------------------|-----|-------------|-------|--------|
| Poona             | 1P                | 23 07 | 22° 5 <sup>C</sup> |     |             | 8310  | 79° 3  |
| Bombay            | eP                |       | 27                 |     |             |       |        |
| Palmer            | eP                |       | 29° 4              |     |             | 8965  | 80° 7  |
| Semipalatinsk     | P                 |       | 34° 5              | esp | 23 08 20° 9 |       |        |
| Mts Sheep Creek   | 1P                |       | 34° 6              |     |             | 9065  | 81° 6  |
| Talgar            | 1P                |       | 35 <sup>C</sup>    | isp | 22          |       |        |
| Mangla            | eP                |       | 36° 3              |     |             |       |        |
| College           | 1P                |       | 39° 8              |     |             | 9200  | 82° 8  |
| Pedro Dome        | 1P                |       | 40° 6              |     |             | 9220  | 83° 0  |
| Gilmore Creek     | eP                |       | 40° 7              | e   | 24° 5       | 9220  | 83° 0  |
| Black Rapids      | 1P                |       | 41° 6              |     |             | 9210  | 82° 9  |
| Frounze           | 1P                |       | 45                 | isp | 32          |       |        |
| Warsak            | P                 |       | 47                 |     |             |       |        |
| Byrd              | eP                |       | 52° 4              |     |             | 9445  | 85° 0  |
| Garm              | eP                |       | 56                 |     |             |       |        |
| Tachkent          | eP                | 08    | 02 <sup>D</sup>    | esp | 51          |       |        |
| Quetta            | eP                |       | 03° 5 <sup>D</sup> |     |             | 9690  | 87° 2  |
| Oroville          | eP                |       | 21                 |     |             | 10155 | 91° 4  |
| Mt. Hamilton      | eP                |       | 25° 5 <sup>C</sup> |     |             |       |        |
| Jamestown         | eP                |       | 26° 5 <sup>C</sup> |     |             |       |        |
| Priest            | eP                |       | 28° 4 <sup>C</sup> |     |             |       |        |
| Mineral           | eP                |       | 31° 6 <sup>C</sup> |     |             |       |        |
| Pasadena          | 1P                |       | 35                 |     |             | 10400 | 93° 6  |
| Mould Bay         | eP                |       | 37                 |     |             | 10535 | 94° 8  |
| Blue M.           | eP                |       | 38° 5              |     |             | 10535 | 94° 8  |
| Eureka            | 1P                |       | 43° 7              |     |             | 10620 | 95° 6  |
| Edmonton          | eP                |       | 51                 |     |             | 10835 | 97° 5  |
| Dugway            | eP                |       | 51° 4              |     |             | 10900 | 98° 1  |
| Bozeman SSS       | eP                |       | 57° 5              |     |             | 10980 | 98° 8  |
| Chiraz            | eP                |       | 58                 |     |             | 11045 | 99° 4  |
| Tonto Forest      | eP                | 09    | 01° 4              |     |             | 11035 | 99° 3  |
| Uinta Basin       | eP                |       | 04° 6              |     |             | 11180 | 100° 6 |
| Lasa Center       | eP                |       | 12° 9              |     |             | 11390 | 102° 5 |
| Presa Infiernillo | e                 | 10    | 47                 |     |             |       |        |
| Kajaani           | PKP               | 13    | 42° 6              |     |             | 12055 | 108° 5 |
| Oulu              | ePKP              |       | 44                 |     |             |       |        |
| Kiruna            | 1PKP              |       | 44                 |     |             |       |        |
| Wichita M.        | PKP               |       | 46° 5              | ePP | 14 15° 0    | 12200 | 109° 8 |
| Nurmijaerwi       | PKP               |       | 48                 |     |             | 12390 | 111° 5 |
| Uméa              | 1PKP              |       | 48° 1 <sup>D</sup> |     |             |       |        |
| Nairobi           | PKP               |       | 51                 |     |             | 12645 | 113° 8 |
| Uppsala           | 1PKP              |       | 54° 5              |     |             |       |        |
| Frobisher         | PKP               |       | 55                 |     |             | 12765 | 114° 9 |
| Uddeholm          | ePKP              |       | 57                 |     |             |       |        |
| Bulawayo          | 1PKP <sub>1</sub> | 14    | 02 <sup>C</sup>    |     |             |       |        |
| Karoi             | ePKP <sub>1</sub> |       | 02                 |     |             |       |        |
| Chileka           | ePKP <sub>1</sub> |       | 04                 |     |             |       |        |
| Niedzica          | e1PKP             |       | 04° 4              |     |             |       |        |
| Broken Hill       | 1PKP <sub>1</sub> |       | 06 <sup>C</sup>    |     |             |       |        |
| Pruhonice         | PKP               |       | 09                 |     |             | 13565 | 122° 1 |
| Collm             | PKP               |       | 09° 5              |     |             | 13565 | 122° 1 |
| Moxa              | PKP               |       | 10                 |     |             | 13690 | 123° 1 |

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|                   |                     |       |                   |   |       |      |       |       |
|-------------------|---------------------|-------|-------------------|---|-------|------|-------|-------|
| Kasperské Hory    | eiPKP               | 23 14 | 11.5              |   |       |      |       |       |
| Brébeuf           | PKP                 |       | 13.9              | i | 23 14 | 46.9 | 13800 | 124.2 |
| Ljubljana         | eiPKP               |       | 14                |   |       |      |       |       |
| Durham            | iPKP                |       | 15                |   |       |      |       |       |
| Cumberland Pl.    | (PKP)               |       | 15.5              |   |       |      | 13335 | 120.0 |
| Bangui            | PKP <sub>1</sub>    |       | 18.1              |   |       |      | 14710 | 132.4 |
| Champ du Feu      | eiPKP <sub>1</sub>  |       | 19                |   |       |      |       |       |
| Sada Bandeira     | PKP                 |       | 19.3              |   |       |      | 14800 | 133.2 |
| Haudompré         | eiPKP <sub>1</sub>  |       | 20.6              |   |       |      |       |       |
| Windhoek          | iPKP <sub>1</sub>   |       | 21 <sup>C</sup>   |   |       |      |       |       |
| Garchy            | iPKP                |       | 24.4 <sup>D</sup> |   |       |      |       |       |
| Folinjare         | eiPKP               |       | 25                |   |       |      | 14445 | 130.0 |
| Penas             | (PKP <sub>1</sub> ) |       | 25                |   |       |      | 15090 | 135.8 |
| St. Sauveur       | eiPKP               |       | 25.3              |   |       |      | 14445 | 130.0 |
| St. Paul en Foret | eiPKP               |       | 25.6              |   |       |      |       |       |
| Gorron            | eiPKP               |       | 25.6              |   |       |      | 14500 | 130.5 |
| La Mourre         | eiPKP               |       | 25.6              |   |       |      |       |       |
| Lorgues           | eiPKP <sub>1</sub>  |       | 26.8              |   |       |      |       |       |
| Le Pertre         | eiPKP <sub>1</sub>  |       | 27                |   |       |      |       |       |
| La Paz            | PKP                 |       | 33.8              |   |       |      | 15110 | 136.0 |
| San Juan          | PKP <sub>1</sub>    |       | 42.2              |   |       |      | 15735 | 141.6 |
| Taman fasset      | PKP                 |       | 44                | i |       | 48   | 15790 | 142.1 |
| Caracas           | iPKP <sub>1</sub>   |       | 44 <sup>D</sup>   | e | 18 09 |      | 15700 | 142.2 |
| Rabat Zaers       | PKP                 |       | 51.5              |   |       |      | 16055 | 144.5 |
| Ifrane            | PKP                 |       | 53.5              |   |       |      | 16090 | 143.9 |
| Averroes          | PKP                 |       | 53.5 <sup>D</sup> |   |       |      |       |       |
| Trinidad          | PKP                 | 15 00 |                   |   |       |      | 16400 | 147.6 |
| Lamto             | PKP                 |       | 09.9              |   |       |      | 17320 | 155.9 |

inscrit à Berkeley.

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Région Mexique Région frontiere Mexique - Guatemala.

15° 6'N; 92° 3'W; h = 166 km; JH = 23h 44mn 46.1s (CGS)  
 15° 24'N; 93° 06'W; H = 23h 44mn 45s (Tacubaya)

M. = 6.2(Tacubaya); 5.6(La Paz) L 5.5(Balboa Heights WichitaM. -  
 Cumberland Pl.); 5.3(Blue M.); 5.3 - 5.8(Berkeley);  
 5.2(Dugway - Edmont); 5.1(Tonto Forest Eureka); 5.0(CGS -  
 Albuquerque - Caracas); 4.8(Uinta Basin - Penas);  
 4.7(Longmire - College); 4.5(Bozeman SSS); 4.4(Golden);

|                 |     |                   |     |          |     |     |
|-----------------|-----|-------------------|-----|----------|-----|-----|
| Comitan         | iP  | 23 45 07          | 18  | 23 45 23 | 65  | 0.6 |
| Presa Benito J. | eP  | 30.5              | e   | 46 03.4  | 345 | 3.1 |
| La Palma        | iP  | 33.1 <sup>C</sup> |     |          | 365 | 3.3 |
| San Salvador    | iP  | 42.2 <sup>D</sup> | eS  | 26.7     | 400 | 3.6 |
| Vista Hermosa   | iP  | 52                |     |          | 500 | 4.5 |
| Vera Cruz       | iPn | 56                | 18n | 54       | 570 | 5.1 |

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|                   |    |       |                    |        |          |       |       |
|-------------------|----|-------|--------------------|--------|----------|-------|-------|
| Nat. Univ. Mexico | 1P | 23 46 | 33                 | 1S     | 23 47 47 | 835   | 7° 5  |
| Tacubaya          | 1P |       | 34                 | 1S     | 47       | 835   | 7° 5  |
| Presa Infiernillo | 1P | 47    | 025 <sup>D</sup>   |        |          | 1080  | 7° 5  |
| Guadalupe Jara    | eP |       | 28                 |        |          | 1290  | 11° 6 |
| Manzanilla        | eP |       | 31                 | eS     | 49 49    | 1330  | 12° 0 |
| Balboa Heights    | 1P | 48    | 00                 | e      | 52 156   | 1585  | 14° 1 |
| Galerazamba       | 1P |       | 47                 |        |          | 1920  | 17° 3 |
| Chinchi na        | 1P | 49    | 04                 |        |          | 2180  | 19° 6 |
| Wich i ta M.      | eP |       | 04° 4              | eS     |          | 2200  | 19° 8 |
| Lubbock           | eP |       | 05                 | e      | 49 22    | 2200  | 19° 8 |
| Tulsa             | 1P |       | 11                 |        |          | 2285  | 20° 4 |
| Cumberland Pl     | eP |       | 16° 6              |        |          | 2310  | 20° 8 |
| Bogota            | 1P |       | 20                 | 1S     | 52 47    | 2335  | 21° 0 |
| Quito             | P  |       | 20° 5              | S      | 53 03    | 2310  | 20° 8 |
| Oak Ridge         | eP |       | 24° 6              |        |          | 2380  | 21° 4 |
| Al buquerque      | 1P |       | 38° 5 <sup>D</sup> | e      | 40       | 2555  | 23° 0 |
| Lawrence          | eP |       | 3 3 3              | eS     | 49° 5    | 2600  | 23° 4 |
| Chapel Hill       | 1P |       | 42° 7              |        |          | 2600  | 23° 4 |
| Manhattan         | eP |       | 44                 |        |          | 264 5 | 23° 8 |
| Tucson            | 1P |       | 44° 1 <sup>D</sup> | eS     | 50       | 2620  | 23° 6 |
| Black Rapids      | eP |       | 47° 1              | e      | 52       | 2655  | 23° 9 |
| San Juan          | eP |       | 56° 6              |        |          | 2800  | 25° 2 |
| Caracas           | eP |       | 56° 6              | e      | 55 20    | 28 10 | 25° 3 |
| Tontu Forest      | 1P |       | 59°                | eS     | 54 18    | 2800  | 25° 2 |
| Flagstaff         | eP | 50    | 08° 4              | e      | 55       | 2900  | 26° 1 |
| Morgantown        | 1P |       | 09° 8              | e      | 55 38    | 29 10 | 26° 2 |
| Golden            | eP |       | 10° 8              | eL     | 40       | 2 945 | 26° 5 |
| Washington        | eP |       | 14° 9              | e      | 50 51° 3 | 2 990 | 26° 9 |
| Glen Canyon       | 1P |       | 18° 6 <sup>D</sup> |        |          | 3035  | 27° 3 |
| Ann Arbor         | 1P |       | 21                 | e      | 56 00    | 3065  | 27° 6 |
| Uinta Basin       | eP |       | 30° 3              | eS     | 55 14    | 3200  | 28° 8 |
| Flaming Gorge     | 1P |       | 34° 3 <sup>D</sup> |        |          | 3245  | 29° 2 |
| Pasadena          | 1P |       | 39                 | 1 (SP) | 51 10    | 3300  | 29° 7 |
| Palisades         | 1P |       | 40° 5              | eS     | 55 26    | 3320  | 29°   |
| Trinidad          | 1P |       | 41° 3              |        |          | 3390  | 30° 5 |
| Bermuda Columbia  | 1P |       | 42                 | eS     | 32       | 3345  | 30° 1 |
| Salt Lake City    | eP |       | 43° 5              | e      | 51 28° 5 | 3355  | 30° 2 |
| Dugway            | eP |       | 44° 2              |        |          | 3365  | 30° 3 |
| Nana              | eP |       | 54                 |        |          | 3490  | 31° 4 |
| Eureka            | 1P |       | 55° 1              |        |          | 3500  | 31° 5 |
| Weston            | 1P | 51    | 02                 | e      | 57 02    | 3580  | 32° 2 |
| Huancayo          | 1P |       | 03° 3              |        |          | 35 0  | 32° 3 |
| Priest            | eP |       | 03° 3 <sup>D</sup> | e (SP) | 51 35° 4 | 36 10 | 32° 5 |
| Jamestown         | eP |       | 10° 3 <sup>D</sup> | e (SP) | 42       | 3705  | 33° 3 |
| San Luis Dam      | 1P |       | 10° 6              |        |          | 3700  | 33° 3 |
| Mt Hamilton       | eP |       | 15° 0 <sup>D</sup> | e (SP) | 47       | 37 55 | 33° 8 |
| Bozeman SSS       | eP |       | 15° 5              |        |          | 3780  | 34° 0 |
| Berl. n           | eP |       | 16                 |        |          | 37 65 | 33° 3 |
| Berkeley          | eP |       | 20° 8              | (SP)   | 53° 1    | 38 20 | 34° 4 |
| Butte             | eP |       | 21° 9              | e      | 52° 8    | 38 55 | 3° 7  |
| Oroville          | 1P |       | 24° 5              | i      | 56° 8    | 3880  | 34° 9 |
| Mineral           | eP |       | 27° 9 <sup>D</sup> | i      | 52 01    | 39 40 | 35° 5 |
| Blue M.           | eP |       | 30                 |        |          | 3990  | 35° 9 |
| Hungfy Horse      | eP |       | 43° 5              |        |          | 4135  | 37° 2 |

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|                 |       |    |    |                   |      |    |    |      |      |       |       |
|-----------------|-------|----|----|-------------------|------|----|----|------|------|-------|-------|
| Arcata          | eP    | 23 | 51 | 44.5 <sup>D</sup> | e    | 23 | 52 | 17   | 4145 | 37.3  |       |
| Arequipa        | iP    |    |    | 51                |      |    |    |      | 4220 | 38.0  |       |
| Newport         | eP    |    |    | 52                | e    |    | 23 |      | 4265 | 38.4  |       |
| Noraman         | eP    |    |    | 53                | e    |    | 24 |      | 4290 | 38.6  |       |
| Corvallis       | eP    |    |    | 57.8              |      |    |    |      | 4320 | 38.   |       |
| Longmire        | iP    |    | 52 | 02.7 <sup>D</sup> |      |    |    |      | 4390 | 39.5  |       |
| Penas           | iP    |    |    | 02.8              | S    |    | 58 | 0    | 4390 | 39.5  |       |
| La Paz          | P     |    |    | 06.8              | S    |    |    | 00   | 4435 | 39.9  |       |
| Edmonton        | eP    |    |    | 13                |      |    |    |      | 4555 | 41.0  |       |
| Antofagasta     | eP    |    |    | 44.1              | e(S) |    | 59 | 11   | 4950 | 44.5  |       |
| Frobisher       | eP    |    | 53 | 31                |      |    |    |      | 5645 | 50.8  |       |
| Peldehue        | ePP   |    |    | 44.7              |      |    |    |      | 5855 | 52.7  |       |
| Resdute         | eP    |    | 54 | 28                |      |    |    |      | 6565 | 59.1  |       |
| Hawai Volc.Obs. | iP    |    |    | 38.7              |      |    |    |      | 6655 | 59.9  |       |
| Mts Sheep Creek | eP    |    |    | 38                | e    |    | 55 | 13   | 6680 | 60.1  |       |
| Black Rapids    | eP    |    |    | 38.2              | e    |    |    | 12   | 6690 | 60.2  |       |
| Palmer          | eP    |    |    | 42.2              |      |    |    |      | 6755 | 60.8  |       |
| Kodiak          | eP    |    |    | 45.5              | e    |    |    | 24.2 | 6790 | 61.1  |       |
| Gilmore Creek   | eP    |    |    | 46.6              | e    |    |    | 20.2 | 6835 | 61.5  |       |
| Pedro Dome      | iP    |    |    | 46.9              | i    |    |    | 20   | 6845 | 61.6  |       |
| College         | eP    |    |    | 47                |      |    |    |      | 6845 | 61.6  |       |
| Mould Bay       | eP    |    |    | 52                | i    |    |    | 25   | 6910 | 62.2  |       |
| Tiputa          | iP    |    |    | 55.2              |      |    |    |      | 6945 | 62.5  |       |
| Big Mountain    | eP    |    |    | 56                | e    |    |    | 30   | 6990 | 62.   |       |
| Sparrevohn      | iP    |    | 55 | 00.4              |      |    |    |      | 7065 | 63.6  |       |
| Papenoo         | iP    |    |    | 12.4              |      |    |    |      | 7245 | 65.2  |       |
| Papeete         | iP    |    |    | 13                |      |    |    |      | 7265 | 65.4  |       |
| Alert           | eP    |    |    | 2.8               |      |    |    |      | 7545 | 67.9  |       |
| Adak            | eP    |    | 56 | 07.1              |      |    |    |      | 8255 | 74.3  |       |
| Le Pertre       | eP    |    |    | 33.6              |      |    |    |      | 8820 | 79.4  |       |
| Gorron          | eP    |    |    | 34                |      |    |    |      | 8820 | 79.4  |       |
| Folinigre       | eP    |    |    | 34.9              |      |    |    |      | 8845 | 7.6   |       |
| St Sauveur      | eP    |    |    | 36.7              |      |    |    |      | 880  | 79.9  |       |
| Skalstugan      | iP    |    |    | 52.5              |      |    |    |      |      |       |       |
| Lillehammer     | iP    |    |    | 53.2              |      |    |    |      | 9190 | 82.7  |       |
| Uddeholm        | iP    |    |    | 59.9              |      |    |    |      | 9370 | 84.3  |       |
| Roselend        | eP    |    | 57 | 02                | ei   |    | 23 | 57   | 45   | 9455  | 85.1  |
| Monteynard      | eP    |    |    | 04.5              | ePP  |    |    |      | 39.5 | 9405  | 84.7  |
| Lamto           | P     |    |    | 06.3              |      |    |    |      | 9535 | 85.8  |       |
| Uméa            | eP    |    |    | 07                |      |    |    |      | 9520 | 85.7  |       |
| Larslevillard   | eP    |    |    | 08                | eipp |    |    |      | 44.5 | 9490  | 85.4  |
| Oulu            | eP    |    |    | 14                |      |    |    |      | 9685 | 87.2  |       |
| Kiruna          | i(P)  |    |    | 16.5              |      |    |    |      | 9320 | 83.9  |       |
| Nurmijaervi     | eP    |    |    | 22                | i    |    |    | 58   | 15.2 | 890   | 89.0  |
| Trieste         | eP    |    |    | 28                | i    |    | 24 | 0.9  | 08   | 9980  | 89.8  |
| Tamanrasset     | eP    |    |    | 32                | i    |    | 23 | 58   | 11   | 10110 | 91.0  |
| Broken Hill     | PKP   |    | 03 | 23                | e    |    |    | 04   | 04   | 13665 | 123.0 |
| Bulawayo        | PKP   |    |    | 26                | e    |    |    |      | 07   | 13765 | 123.  |
| Karoi           | PKP   |    |    | 27                | e    |    |    |      | 09   | 13820 | 12.4  |
| Warramunga      | (PKP) |    |    | 37                | e    |    |    | 07   | 07   | 15055 | 135.5 |
| Nairobi         | PKP   |    |    | 37                |      |    |    |      |      | 14210 | 127.9 |
| Warsak          | iPKP  |    |    | 37.2              |      |    |    |      |      |       |       |
| Quetta          | PKP   |    |    | 39.2              |      |    |    |      |      | 14465 | 130.2 |
| Chileka         | PKP   |    |    | 47                | e    |    |    | 04   | 28   | 14380 | 129.4 |



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Mundaring PKP 24 04 18 16600 149°4

inscrit à Kevo, Merida, Leon, Fuquene  
Durham, Besançon, Vouglans, Bagnières, Bangui.

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Chiapas (Mexique)

16°3N, 92°3W h = 77km H = 23<sup>h</sup>45<sup>m</sup>17<sup>s</sup> (CGS)  
16°4N, 92°6W H = 23<sup>h</sup>45<sup>m</sup>10<sup>s</sup> (URSS)  
M = 5.6 (Tucson), 5.5 (Bozeman SSS), 5.4 (CGS),  
5.0 (Albuquerque)

|                 |    |    |    |      |       |    |      |              |
|-----------------|----|----|----|------|-------|----|------|--------------|
| Presa Benito J. | ep | 23 | 46 | 03.4 |       |    | 335  | 3.0          |
| Albuquerque     | ep |    | 50 | 07.3 | e(SP) | 23 | 50   | 20 2455 22.1 |
| Tucson          | ep |    |    | 11.8 | esp   |    | 31.2 | 2535 22.8    |
| Glen Canyon     | ip |    |    | 50   |       |    |      | 2935 26.4    |
| Washington      | ep |    |    | 51.9 |       |    |      | 2880 2       |
| Flaming Gorge   | ep |    | 51 | 04.2 |       |    |      | 3135 28.2    |
| Uinta Basin     | ep |    |    | 08.2 |       |    |      | 3090 27.8    |
| Pasadena        | ip |    |    | 10   |       |    |      | 3210 28      |
| Salt Lake City  | ep |    |    | 14   |       |    |      | 3255 28.3    |
| Priest          | ep |    |    | 35.4 |       |    |      | 3520 31      |
| San Luis Dam    | ip |    |    | 42.5 |       |    |      | 3610 32.5    |
| Bozeman SSS     | ep |    |    | 46.2 | e(SP) | 52 | 03.5 | 3665 33      |
| Mt Hamilton     | ep |    |    | 47   |       |    |      | 3665 33.0    |
| Butte           | ep |    |    | 52.8 |       |    |      | 3745 33.7    |
| Berkeley        | ep |    |    | 53.1 |       |    |      | 3735 33.6    |
| San Francisco   | ep |    |    | 54.5 |       |    |      | 3745 33.7    |
| Hungry Horse    | ep |    | 52 | 13.5 |       |    |      | 4010 36.1    |
| Newport         | ep |    |    | 23   |       |    |      | 4155 37.4    |
| Nordman         | ep |    |    | 24   |       |    |      | 4180 37.6    |
| Spokane         | ep |    |    | 28.1 |       |    |      | 4120 37.1    |
| Edmonton        | ip |    |    | 45   |       |    |      | 4435 39.9    |
| Black Rapids    | ep |    | 55 | 12   |       |    |      | 6580 59.2    |
| Mts Sheep Creek | ep |    |    | 13   |       |    |      | 6565 59.1    |
| Pedro Dome      | ip |    |    | 20   |       |    |      | 6720 60      |
| Gilmore Creek   | ep |    |    | 20.2 |       |    |      | 6720 60.5    |
| College         | ip |    |    | 23   |       |    |      | 6735 60.4    |
| Mould Bay       | ip |    |    | 25   |       |    |      | 6790 61.1    |
| Big Mountain    | ep |    |    | 30   |       |    |      | 6890 62.0    |
| Adak            | ep |    | 56 | 42.6 |       |    |      | 8165 73      |
| Averroes        | ep |    | 57 | 00.5 |       |    |      | 8535 76.8    |
| Rabat Zaers     | ep |    |    | 02   |       |    |      | 8580 77.2    |
| Ifrane          | ep |    |    | 11   |       |    |      | 8735 78.6    |
| Le pertre       | ep |    |    | 11.3 |       |    |      | 8725 78.5    |
| Goron           | ep |    |    | 11.8 |       |    |      | 8735 78.6    |
| Poliniere       | ep |    |    | 13   |       |    |      | 8755 78.8    |
| St Sauveur      | ep |    |    | 14.9 |       |    |      | 8780 79      |
| Almería         | ip |    |    | 18   |       |    |      | 8800 80.0    |
| La prestale     | ep |    |    | 21.4 |       |    |      | 8935 80.4    |

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|                  |      |       |        |   |          |        |        |
|------------------|------|-------|--------|---|----------|--------|--------|
| Archignac        | EP   | 23 57 | 23° 6  |   |          | 8980   | 80° 8  |
| Le Pouchou       | EP   |       | 23° 9  |   |          | 8 980  | 80° 8  |
| Garchy           | IP   |       | 26° ①  |   |          | 9045   | 81° 4  |
| Clermont         | EP   |       | 28° 5  | e | 23 57 57 | 90 5   | 81° 8  |
| Kheis            | EP   |       | 29     |   |          | 9060   | 81° 6  |
| Skalstugan       | IP   |       | 31° 7  |   |          |        |        |
| Kiruna           | IP   |       | 35° 7  |   |          | 9200   | 82° 8  |
| Bensberg         | EP   |       | 36     | e | 52       | 9220   | 83° 0  |
| Haudompré        | EP   |       | 37° 1  |   |          | 9260   | 83° 3  |
| Uddeholm         | IP   |       | 37° 7  |   |          | 9255   | 83° 3  |
| Luxembourg       | EP   |       | 39     |   |          | 9190   | 82° 7  |
| Champ du Feu     | EP   |       | 39° 8  |   |          | 9310   | 83° 8  |
| Strasbourg       | EP   |       | 41     |   |          | 9340   | 84° 1  |
| Kevo             | IP   |       | 43     |   |          | 9320   | 83° 9  |
| Uméa             | IP   |       | 45° 5  |   |          | 9395   | 84° 6  |
| Isola            | IP   |       | 45° 7  |   |          | 9445   | 85° 0  |
| Sodankylae       | EP   |       | 46     |   |          | 9455   | 85° 1  |
| Uppsala          | EP   |       | 47° 5  |   |          | 9465   | 85° 2  |
| Moxa             | EP   |       | 49° 5  |   |          | 9520   | 85° 7  |
| Erlangen         | EP   |       | 51° 6C |   |          | 9535   | 85° 8  |
| Oulu             | EP   |       | 52     |   |          | 9565   | 86° 1  |
| Furstenfeldbruck | EP   |       | 52     |   |          | 9600   | 86° 4  |
| Collm            | EP   |       | 53     |   |          | 9590   | 86° 3  |
| Kasperské Hory   | EP   |       | 59     |   |          | 9720   | 87°    |
| Pruhonice        | EP   | 58 00 |        |   |          | 9745   | 87° 7  |
| Magadan          | EP   |       | 02     |   |          | 9830   | 88° 5  |
| Nurmijaervi      | 1(P) |       | 15° 2  |   |          | 9780   | 88° 0  |
| Yakoutsk         | EP   |       | 29     |   |          | 10525  | 94° 7  |
| New Delhi        | EPKP | 24 04 | 28     |   |          | 148 55 | 133° 7 |
| Toolangi         | PKP  |       | 07° 5  |   |          | 13 935 | 125° 4 |

I. 22 janvier  
Sud de la Grèce

| 36° 1'N        | 22° 4'E | H     | =      | 00h19mn38s (Athènes)      |
|----------------|---------|-------|--------|---------------------------|
| Vamos          | eiPn    | 00 20 | 09° 4D | eiSn 00 20 31° 8 185 1° 7 |
| Athènes        | EPn     |       | 16° 6  | eiSb 47° 3 245 2° 2       |
| Val samata     | EP      |       | 22° 0  | e(Sn) 52° 8 280 2° 5      |
| Paraskevi      | EPn     |       | 46° 9  | 480 4° 3                  |
| Rhodes         | EPn     |       | 50° 2  | 525 4° 6                  |
| Kasperské Hory | EP      |       | 05     | 1615 14° 5                |
| Pruhonice      | e(P)    | 23    | 16° 7  | 1670 15° 0                |
| Collm          | e(P)    |       | 35     | 1850 16° 6                |
| St Sauveur     | EP      | 24    | 21° 2  | 2300 20° 7                |
| Folinière      | EP      |       | 25° 8  | 2335 21° 0                |
| Gorron         | EP      |       | 28° 6  | 23 0 21° 0                |
| Nurmijaervi    | EP      |       | 56     | 2720 24° 5                |
| Uddeholm       | IP      |       | 5° 4   | 2740 24° 7                |
| Chiraz         | (P)     | 25    | 25° 0  | 2915 26° 3                |
| Kajlaani       | EP      |       | 28     | 3135 28° 2                |

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II. 22 Janvier  
Nouvelles Hébrides (île Vaté)  
H = 00°43'30" S (Nouméa)

|            |     |       |       |    |       |    |
|------------|-----|-------|-------|----|-------|----|
| Port Vila  | eIP | 00 43 | 46°8  | 1S | 00 43 | 59 |
| Luganville | 1P  | 44    | 02°10 | 1S | 44    | 27 |
| Lonorore   | eIP |       | 02°1  |    |       |    |

III. 22 Janvier  
Nouvelles Hébrides (île Espiritu Santo)  
H = 01°55'04" S (Nouméa)

|            |     |       |       |    |       |      |
|------------|-----|-------|-------|----|-------|------|
| Luganville | 1P  | 01 55 | 18°6D | 1S | 01 55 | 29   |
| Lonorore   | 1P  |       | 21°6  | 1S |       | 33°5 |
| Port Vila  | eIP |       | 51°0  |    |       |      |

IV. 22 Janvier  
Région de la Nouvelle Bretagne  
H = 02°19'58" S M = 4° E (Rabaul)

|                |     |       |      |     |       |      |
|----------------|-----|-------|------|-----|-------|------|
| Keravat        | 1P  | 02 20 | 32°5 | 1S  | 02 20 | 57°5 |
| Rabalanakaia   | eP  |       | 35D  |     |       |      |
| Wanliss Street | eP  |       | 35D  |     |       |      |
| Rabaul         | ePn |       | 36   | 1Sn | 21    | 05°0 |
| Port Moresby   | eP  | 21(   | 27)  | eS  | 22    | 28   |

V. 22 Janvier  
Sud de Hondu (Japon)  
30°8N, 138°6E h = 394 km H = 02°12'55" S (CGS)

M = 4°7 (Mt Tsukuba, Numijaervi), 4°6 (Palmer), 4°4  
(Uinta Basin), 4°3 (CGS, Eureka), 4°2 (Blue M,  
Dugway, Albuquerque), 3°5 (Tonto Forest).

|                |    |       |       |   |          |      |
|----------------|----|-------|-------|---|----------|------|
| Oishiyama      | eP | 02 26 | 51°6  |   | 480      | 4°3  |
| Kyosumi        | 1P |       | 52°2  |   | 500      | 4°5  |
| Wakaura        | eP |       | 53°0  |   | 490      | 4°4  |
| Abuyama        | eP |       | 57°6  |   |          |      |
| Doda i ra      | 1P |       | 58°6  |   | 580      | 5°2  |
| Mt Tsukuba     | 1P | 27    | 00°8  |   | 610      | 5°5  |
| Matsushiro     | P  |       | 05    | S | 02 28 17 |      |
| Palmer         | eP | 34    | 28°0  |   | 6110     | 55°0 |
| College        | eP |       | 33°3  |   | 6180     | 55°6 |
| Gilmore Creek  | eP |       | 33°4  |   | 6100     | 55°7 |
| Mt Sheep Creek | 1P |       | 35°3  |   | 6210     | 55°9 |
| Black Rapids   | 1P |       | 40°3  |   | 6280     | 56°5 |
| Brisbane       | eP |       | 59°0  |   | 6610     | 8°5  |
| Quetta         | eP | 35    | 07°8D |   |          |      |
| Kevo           | 1P |       | 57°8  |   |          |      |
| Sodankylae     | eP | 36    | 05    |   |          |      |
| Kajaani        | 1P |       | 13°4  |   |          |      |
| Oulu           | eP |       | 14    |   |          |      |
| Kiruna n       | dP |       | 15    |   |          |      |
| Nurmijaervi    | 1P |       | 31°0  |   | 8255     | 74°3 |

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|               |     |            |                |       |       |
|---------------|-----|------------|----------------|-------|-------|
| Newport       | eP  | 02 36 43·0 |                | 8470  | 76·2  |
| Unnsala       | iP  | 47·9       |                | 8610  | 77·5  |
| Blue M.       | eP  | 52·3       |                | 8655  | 77·9  |
| Hungary Horse | eP  | 53·3       |                | 8655  | 77·9  |
| Uddeholm      | iP  | 55·1       |                |       |       |
| Eureka        | iP  | 37 12·2    |                | 9070  | 81·6  |
| Dugway        | eP  | 20·7       |                | 9245  | 83·2  |
| Goldstone     | P   | 21·0       |                | 9255  | 83·3  |
| Uinta Basin   | eP  | 30·6       | edP 02 39 02·2 | 9470  | 85·2  |
| Tonto Forest  | eP  | 43·5       |                | 9730  | 87·6  |
| Albuquerque   | eP  | 55·1       |                | 10045 | 90·4  |
| South Pole    | PKP | 43 40·7    |                | 13410 | 120·7 |

inscrit à Oroville

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Nouvelles Hébrides (Ile Espiritu Santo)

15° 1 S; 167° 5 E; H = 02<sup>h</sup>.34<sup>mn</sup>54<sup>s</sup>.; M. = 4·0 (Nouméa)

|            |     |                         |    |            |
|------------|-----|-------------------------|----|------------|
| Luganville | iP  | 02 34 51·6 <sup>C</sup> | iS | 02 35 04·5 |
| Lonorore   | iP  | 57·0                    | iS | 13·5       |
| Port Vila  | eiP | 35 19·1 <sup>D</sup>    | iS | 52         |
| Quannah    | eiP | 51·0                    |    |            |
| Koumac     | eiP | 36 04·3                 | iS | 37 10·5    |
| Nouméa     | eiP | 19·2                    | iS | 39·5       |

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Espagne, à proximité de Vallada (Valencia)

38° 9 N; 0° 7 W; h = 33 km; H = 02<sup>h</sup>.39<sup>mn</sup>36·5<sup>s</sup>.; M. = 4·2 (Madrid)

|          |     |            |     |            |     |     |
|----------|-----|------------|-----|------------|-----|-----|
| Alicante | iPg | 02 39 47·7 | iSg | 02 39 57·0 | 63  | 0·6 |
| Tortosa  | eP  | 40 11      | eS  | 40 49      | 236 | 2·1 |
| Toledo   | ePn | 24         | iSg | 41 09·5    | 312 | 2·8 |
| Malaga   | eP  | 35         | eS  | 26         | 407 | 3·7 |

VIII.- 22 Janvier

Yougoslavie

Ressenti à Labin et Istra (d'après Ljubljana)

|                |     |          |      |            |
|----------------|-----|----------|------|------------|
| Trieste        | ePg | 03 42 46 | iSg  | 03 42 57·5 |
| Ljubljana      | ePg | 53       | eSg  | 43 07      |
| Kasperské Hory | e   | 43 37    | eiSg | 44 38·5    |
| Pruhonic       | e   | 44 46    |      |            |

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IX. 22 Janvier

Région frontiere Pérou-Brésil.

8°4'S; 74°2'W; h = 168km ; H = 03<sup>h</sup>.44<sup>mn</sup>58.9S. (CGS)

M. = 4.8(Caracas); 4.6(Dugway); 4.5(Uinta Basin); 4.4(CGS);  
4.3(Wichita M.); 3.9(Tonto Forest - Blue M.).

|               |    |            |        |            |       |      |
|---------------|----|------------|--------|------------|-------|------|
| Huancayo      | 1P | 03 45 57.5 | 1S     | 03 46 38.0 | 420   | 3.8  |
| Nana          | 1P | 46 06.0    | 1S     | 53.0       | 490   | 4.4  |
| Quito         | eP | 47 04      | eS     | 48 36      |       |      |
| Arequipa      | eP | 07.2       |        |            | 945   | 8.5  |
| Penas         | P  | 15         |        |            |       |      |
| La Paz        | P  | 15         |        |            |       |      |
| Bogota        | eP | 48 05.0    |        |            | 1430  | 12.9 |
| Caracas       | eP | 49 23.5    | e      | 55 42.0    | 2230  | 20.1 |
| Wichita M.    | eP | 53 27.3    | epP    | 54 04.3    | 5410  | 48.7 |
| Tucson        | eP | 54 03.5    |        |            | 5930  | 53.4 |
| Tonto Forest  | eP | 16.0       | e(PcP) | 55 14.9    | 6110  | 55.0 |
| Uinta Basin   | eP | 39.3       | epP    | 20.0       | 6490  | 58.4 |
| Flaming Gorge | eP | 41.8       |        |            | 6530  | 58.8 |
| Dugway        | eP | 50.7       |        |            | 6670  | 60.0 |
| Bozeman       | eP | 55 11.9    |        |            | 7030  | 63.3 |
| Oroville      | 1P | 21.6       |        |            | 7190  | 64.7 |
| Blue M.       | eP | 26.1       |        |            | 7290  | 65.6 |
| Newport       | eP | 40.0       |        |            | 7454  | 67.9 |
| Nordman       | eP | 42.0       |        |            | 7555  | 68.0 |
| Edmon ton     | 1P | 52.0       |        |            | 7755  | 69.8 |
| Lamto         | P  | 56.1       |        |            | 7830  | 70.5 |
| South Pole    | eP | 57 01.0    |        |            | 9080  | 81.7 |
| Mould Bay     | eP | 33.5       |        |            | 9830  | 88.5 |
| College       | eP | 44.0       |        |            | 10070 | 90.6 |

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Préfecture de Nagano (Japon)

36°03'N; 137°39'E; h = 10km; H = 04<sup>h</sup>.48<sup>mn</sup>34.6S. (JMA)

M. = 3.7(JMA)

|            |    |            |    |            |     |     |
|------------|----|------------|----|------------|-----|-----|
| Takayama   | eP | 04 48 42.5 | eS | 04 48 46.3 | 37  | 0.3 |
| Matsumoto  | 1P | 42.8       | 1S | 47.5       | 36  | 0.3 |
| Iida       | eP | 47.2       | 1S | 54.8       | 62  | 0.6 |
| Matsushiro | 1P | 48.0       | S  | 57         | 74  | 0.7 |
| Kofu       | 1P | 51.4       | eS | 49 02.4    | 92  | 0.8 |
| Gifu       | P  | 55.5       | S  | 08.5       | 108 | 1.0 |
| Funatsu    | 1P | 56.8       | 1S | 10.8       | 118 | 1.1 |
| Hamamatsu  | P  | 49 00.8    | S  | 18.8       | 149 | 1.3 |
| Shizuoka   | S  | 05.8       | S  | 15.4       | 138 | 1.2 |
| Hikone     | S  | 19.3       |    |            | 153 | 1.4 |

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Vallée de Lualaba (Congo)

5°1 S; 26°9 E; H = 05h.25mn10s.; M. = 4.6 (Balawayo)

|             |    |          |    |          |
|-------------|----|----------|----|----------|
| Broken Hill | eP | 05 27 27 | 1S | 05 29 07 |
| Karoi       | eP | 28 01    | 1S | 30 06    |
| Chileka     | eP | 18       | eS | 30 35    |
| Bulawayo    | eP | 43       | eS | 31 22    |
| Tamanrasset | e  | 33 02    |    |          |
| Bangui      | i  | 53.7     |    |          |

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Maroc.

35°1 N; 5°6 W; h = 27km; H = 07h.19mn07s. (BCIS)  
 34°9 N; 5°2 W; h = 22km; H = 07h.19mn03.2s. (CGS)  
 35°1 N; 5°7 W; h = 96km; H = 07h.19mn05s. (Madrid)

Ressenti V à EL\_Ksar\_el\_Kebir (Caidat de M'Zefroun)  
 IV à Guezzan; III à Fez, Imouzzet du Kandar,  
 Tétonane, II à Rabat. (d'après Rabat)

M. = 4.5 (Uinta Basin); 4.1 (CGS); 4.0 (Blue M.); 3.9 (Tonto Forest)

|                 |      |            |       |          |      |      |
|-----------------|------|------------|-------|----------|------|------|
| Rabat           | ePn  | 07 19 31.0 | e1Sg  | 07 19 53 | 165  | 1.5  |
| Rabat Z         | iP   | 32.5       |       |          | 170  | 1.5  |
| Ifrane          | iPn  | 34.0       | M     | 20 20    | 180  | 1.6  |
| Malaga          | iPg  | 40         | 1Sg   | 01       | 210  | 1.9  |
| Averroes        | iPn  | 42.5D      | 1(Sg) | 21       | 260  | 2.3  |
| Almería         | ePn  | 56.1       | 1Sn   | 32       | 345  | 3.1  |
| Toledo          | iPn  | 20 21      | 1Sn   | 21 12.8  | 550  | 4.9  |
| Porto           | iPn  | 40.5D      | 1Sn   | 47.6     | 720  | 6.5  |
| Tortosa         | iP   | 55         | 1S    | 22 15    | 830  | 7.5  |
| Logrono         | ePn  | 21 09      | eSn   | 23       | 860  | 7.7  |
| Sétif           | iP   | 20C        |       |          | 1005 | 9.1  |
| La Frestale     | eiP  | 44.0       |       |          | 1220 | 11.0 |
| Archignac       | eiP  | 47.1       |       |          | 1250 | 11.2 |
| Toulx Ste Croix | eiP  | 22 05.8    |       |          | 1405 | 12.7 |
| Le Pertre       | eiP  | 16.5       |       |          | 1485 | 13.4 |
| St. Saulge      | eiP  | (20)       |       |          | 1535 | 13.8 |
| Garron          | eiP  | 21.0       | ei(S) | 24 38.6  | 1525 | 13.7 |
| Garchy          | (e)P | 21.7       | 1S    | 48.0     | 1535 | 13.8 |
| Les Buteaux     | eiP  | 23.1       |       |          | 1545 | 13.9 |
| Sommée Lormes   | eiP  | 25.4       |       |          | 1565 | 14.1 |
| St. Sauveur     | eiP  | 25.5       | eiS   | 43.9     | 1565 | 14.1 |
| Roselend        | eP   | 27         | ei    | 22 34.6  | 1565 | 14.1 |
| Folinère        | eiP  | 27.0       | eiS   | 24 47.3  | 1575 | 14.2 |
| Ljubljana       | eP   | 23 25      |       |          | 2085 | 18.8 |

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|              |      |      |          |                    |      |       |
|--------------|------|------|----------|--------------------|------|-------|
| Erlangen     |      | eP   | 07 23 25 |                    | 2125 | 19° 1 |
| Kasperské    | Hory | eIP  |          | 36°5               | 2215 | 19° 9 |
| Moxa         |      | e(P) |          | 38                 | 2215 | 20° 0 |
| Pruhonice    |      | eP   |          | 48                 | 2325 | 20° 9 |
| Collm        |      | eP   |          | 50 <sup>C</sup>    | 2340 | 21° 0 |
| Niedzica     |      | eP   | 24 18    |                    | 2645 | 23° 8 |
| Campulung    |      | P    |          | 33                 | 2825 | 25° 4 |
| Uddeholm     |      | IP   |          | 54° 4              | 3105 | 28° 0 |
| Lamto        |      | P    |          | 59° 6              | 3105 | 28° 7 |
| Uppsala      |      | IP   | 25 04° 4 |                    | 3225 | 29° 0 |
| Nurmijaerwi  |      | eP   |          | 31                 | 3560 | 32° 0 |
| Uméa         |      | IP   |          | 38° 7 <sup>D</sup> | 3645 | 32° 8 |
| Kajaani      |      | IP   | 26 00° 3 |                    | 3935 | 35° 4 |
| Oulu         |      | eP   |          | 02                 | 3940 | 35° 5 |
| Kiruna       |      | IP   |          | 05° 8 <sup>D</sup> | 4000 | 36° 0 |
| Sodankylä    |      | IP   |          | 16° 2 <sup>D</sup> | 4140 | 37° 2 |
| Uinta Basin  |      | eP   | 31 01° 0 | ePCP 07 31 15° 0   | 8600 | 37° 4 |
| Blue M.      |      | eP   |          | 11° 6              | 8805 | 79° 2 |
| Tonto Forest |      | eP   |          | 27° 5              | 9120 | 82° 1 |

inscrit à Cartuja.

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Région des Iles Açores

41° 0' N; 29° 6' W; h = 33 km; H = 07h.42<sup>mm</sup>32<sup>s</sup>. (CGS)

M. = 5° 2' (Bangui); 4° 4' (CGS - Uinta Basin - Dugway); 4° 2' (Wichita M.);  
4° 1' (Blue M.) Tonto Forest).

|              |     |       |           |          |      |       |
|--------------|-----|-------|-----------|----------|------|-------|
| Bagnères     |     | e(Pn) | 07 46(18) |          | 4930 | 44° 4 |
| Resolute     |     | eP    |           | 50 40° 9 | 5610 | 50° 5 |
| Mould Bay    |     | eP    |           | 51 28° 0 | 5622 | 52° 6 |
| Wichita M.   |     | eP    |           | 51° 2    | 6120 | 65° 1 |
| Edmonton     |     | eP    |           | 52 03° 0 | 6270 | 56° 4 |
| Bangui       |     | IP    |           | 12° 7    | 6380 | 57° 4 |
| Bozeman      | SSS | eP    |           | 19° 6    | 6500 | 58° 5 |
| Uinta Basin  |     | eP    |           | 23° 1    | 6610 | 59° 5 |
| Newport      |     | eP    |           | 33° 0    | 6755 | 60° 8 |
| Dugway       |     | eP    |           | 43° 2    | 6810 | 61° 3 |
| Blue M.      |     | eP    |           | 45° 5    | 6980 | 62° 8 |
| Tonto Forest |     | eP    |           | 59° 0    |      |       |

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Région de l'île Kodiak

57° 1' N; 153° 2' ; h = 69 km; H = 08h.22<sup>mm</sup>15<sup>s</sup>. (CGS)

M. = 3° 8' (Tonto Forest); 3° 7' (CGS)

|        |  |    |             |   |             |    |      |
|--------|--|----|-------------|---|-------------|----|------|
| Kodiak |  | eP | 08 22 30° 3 | e | 08 22 37° 5 | 80 | 0° 7 |
|--------|--|----|-------------|---|-------------|----|------|

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|                 |    |            |      |      |  |
|-----------------|----|------------|------|------|--|
| Big Mountain    | eP | 08 22 54.0 |      |      |  |
| Sparrevohn      | iP | 23 17.3    | 280  | 2.5  |  |
| Palmer          | eP | 27.0       | 470  | 4.2  |  |
| Mts Sheep Creek | iP | 36.3       | 545  | 4.9  |  |
| Black Rapids    | eP | 24 03.0    | 620  | 4.6  |  |
| College         | eP | 13.0       | 820  | 7.4  |  |
| Gilmore Creek   | eP | 14.4       | 910  | 8.2  |  |
| Pedro Dome      | eP | 16.0       | 920  | 8.3  |  |
| Mould Bay       | eP | 27 15.0    | 930  | 8.4  |  |
| Blue M.         | eP | 34.3       | 2520 | 22.7 |  |
| Resolute        | eP | 28 00.0    | 2820 | 25.4 |  |
| Uinta Basin     | eP | 46.7       | 3090 | 27.8 |  |
| Tonto Forest    | eP | 29 14.3    |      |      |  |
| Sodankylä       | eP | 31 45      | 4030 | 36.3 |  |
| Nurmijaerwi     | iP | 32 33.6    | 6200 | 55.8 |  |
|                 |    |            | 6970 | 62.7 |  |

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Japon.

M. =  $35^{\circ}37' N$ ;  $138^{\circ}09' E$ ; h = 0km; H =  $08^h.41^{mn}41.5^s$ ;  
 $3.9(JMA)$

|            |    |            |    |            |     |     |
|------------|----|------------|----|------------|-----|-----|
| Matsumoto  | iD | 08 41 49.1 | iS | 08 41 53.7 | 36  | 0.3 |
| Ida        | eP | 53.0       | eS | 42 00.8    | 56  | 0.5 |
| Matsushiro | iP | 54.1       | S  | 02.5       | 65  | 0.6 |
| Hamamatsu  | eP | 42 07      | iS | 24.4       | 143 | 1.3 |
| Abuyama    | iP | 18.1       |    |            |     |     |
| Hikone     |    | 26.0       |    |            | 188 | 1.7 |

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Région de la Nouvelle Bretagne

H =  $08^h.58^{mn}08^s$ . (Rabaul)

|                |     |                       |    |            |  |
|----------------|-----|-----------------------|----|------------|--|
| Wanliss Street | eP  | 08 56 42 <sup>D</sup> |    |            |  |
| Rabalanakaia   | iP  | 42.0 <sup>D</sup>     |    |            |  |
| Rabaul         | iP  | 42.3 <sup>D</sup>     | iS | 08 57 08.0 |  |
| Keravat        | eIP | 43 <sup>D</sup>       |    |            |  |
| Esa'Ala        | iP  | 57 26.5               | iS | 58 28      |  |
| Port Moresby   | iP  | 58 03.6 <sup>D</sup>  | eS | 59 37      |  |
| Brisbane       | eP  | 09 00 53              |    |            |  |
| Byrd           | eP  | 08 53.9               |    |            |  |
| South Pole     | eP  | 54.2                  |    |            |  |



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Région Sud de la Province de Sin\_Kiang (Chine)

38° 2'N; 75° 6'E; h = 108km; H = 10h.35mn36.6s. (CGS)  
 38° 4'N; 75° 6'E; h = 132km; H = 10h.35mn40s. (URSS)  
 37° 7'N; 75° 3'E; H = 10h.35mn45s. (Qetta)

M. = 5.8 (Edmonton); 5.7 (Kiruna - Uppsala - Mould Bay); 5.5 (Gilmore Creek -  
 Newport); 5.4 (Qetta); 5.3 (CGS - Kajaani College); 5.2 (Nurmijaerwi -  
 Kevo); 5.1 (Mt. Tsukuba - Palmer); 5.0 (Uinta Basin - Station Nord)

|               |    |                      |      |          |      |      |
|---------------|----|----------------------|------|----------|------|------|
| Khorog        | eP | 10 36 34             |      |          | 365  | 3'3  |
| Andidjan      | iP | 35                   | iS   | 10 57 12 | 395  | 3'8  |
| Garm          | iP | 42.2                 | iS   | 28.7     | 470  | 4'2  |
| Kouliab       | iP | 48.9 <sup>D</sup>    |      |          | 515  | 4'6  |
| Frounze       | iP | 49 <sup>D</sup>      |      |          | 520  | 4'7  |
| Prejvalsk     | iP | 51.1 <sup>D</sup>    | iS   | 44       | 530  | 4'8  |
| Talgar        | iP | 55                   | S    | 48       | 580  | 5'2  |
| Warsak        | P  | 59                   |      |          | 585  | 5'3  |
| Tachkent      | iP | 37 02.5 <sup>C</sup> | eS   | 38 05    | 640  | 5'8  |
| Samarkand     | iP | 17                   | eS   | 31       | 765  | 6'9  |
| Lahore        | P  | 18                   | S    | 27       | 745  | 6'7  |
| Bhakra        | iP | 18.4                 | iS   | 29.6     | 755  | 6'8  |
| Dehra Dun     | iP | 36.4 <sup>D</sup>    | iS   | 39 08    | 900  | 8'1  |
| New Dehli     | iP | 54 <sup>D</sup>      | iS   | 33.5     | 1070 | 9'6  |
| Qetta         | eP | 38 05.4 <sup>C</sup> | eS   | 40 08.8  | 1200 | 10'8 |
| Semipalatinsk | eP | 33.8                 |      |          | 1405 | 12'6 |
| Mashad        | eP | 36                   |      |          | 1430 | 12'9 |
| Achkhabad     | eP | 49.7                 |      |          | 1510 | 13'6 |
| Chatra        | eP | 39 03 <sup>D</sup>   |      |          | 1660 | 14'9 |
| Kizyl_Arvat   | iP | 06 <sup>D</sup>      | eS   | 41 46    | 1680 | 15'1 |
| Bokaro        | eP | 25                   | i    | 42 34    | 1860 | 16'8 |
| Esen Boulak   | iP | 34                   |      | 46 06    | 1920 | 17'3 |
| Shillong      | iP | 47 <sup>D</sup>      |      |          | 2075 | 18'7 |
| Bombay        | eP | 53                   | e    | 42 33    | 2155 | 19'4 |
| Téhéran       | eP | 40 00                |      |          | 2170 | 19'5 |
| Poona         | iP | 00.5                 | e    | 43 40.5  | 2185 | 19'7 |
| Sverdlovsk    | eP | 15                   |      |          | 2345 | 21'1 |
| Chittagong    | eP | 16                   |      |          | 2340 | 21'1 |
| Vishakapatnam | eP | 20                   | eS   | 44 16    | 2390 | 21'5 |
| Kirovabad     | eP | 32                   |      |          | 2520 | 22'7 |
| Goris         | eP | 33                   |      |          | 2530 | 22'8 |
| Tabriz        | iP | 38.8                 | eIPP | 41 10.4  | 2555 | 23'0 |
| Kermanshah    | eP | (38)                 |      |          | 2585 | 23'2 |
| Oulan Bator   | iP | 52                   |      | 46 11    | 2745 | 24'7 |
| Bakouriani    | iP | 52.4                 |      |          | 2750 | 24'8 |
| Apatity       | iP | 42 42 <sup>D</sup>   |      |          | 4175 | 37'6 |
| Kajaani       | iP | 47.8                 |      |          | 4245 | 38'2 |
| Nurmijaerwi   | iP | 51.3                 |      |          | 4300 | 38'7 |
| Oulu          | iP | 56.8                 |      |          | 4370 | 39'3 |
| Oujgorod      | eP | 57                   |      |          | 4375 | 39'4 |
| Sodankylä     | i  | 43 00.8 <sup>D</sup> |      |          | 4420 | 39'8 |

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|                |     |       |                    |     |       |       |      |       |
|----------------|-----|-------|--------------------|-----|-------|-------|------|-------|
| Yakoutsk       | iP  | 10 43 | 05 <sup>C</sup>    |     |       |       | 4495 | 40° 5 |
| Kevo           | iP  |       | 07° 4 <sup>D</sup> |     |       |       | 4510 | 40° 6 |
| Niedzica       | eIP |       | 08° 2              |     |       |       | 4510 | 40° 6 |
| Krakow         | eP  |       | 09° 2              |     |       |       | 4530 | 40° 8 |
| Uméa           | iP  |       | 13° 2              |     |       |       | 4595 | 41° 4 |
| Uppsala        | iP  |       | 18° 5 <sup>C</sup> |     |       |       | 4670 | 42° 0 |
| Kiruna         | iP  |       | 19° 6 <sup>C</sup> |     |       |       | 4690 | 42° 2 |
| Tiksi          | iP  |       | 23 <sup>C</sup>    |     |       |       | 4760 | 42° 8 |
| Karlskrona     | iP  |       | 26° 1              |     |       |       | 4785 | 43° 0 |
| Uddeholm       | iP  |       | 35° 1 <sup>C</sup> |     |       |       | 4900 | 44° 1 |
| Pruhonice      | eP  |       | 37° 5              |     |       |       | 4910 | 44° 2 |
| Skalstugan     | iP  |       | 40° 8 <sup>C</sup> |     |       |       | 4985 | 44° 8 |
| Göteborg       | iP  |       | 41° 6              |     |       |       | 4995 | 45° 0 |
| Ljubljana      | eP  |       | 43                 |     |       |       | 5000 | 45° 0 |
| Collm          | iP  |       | 43° 1 <sup>D</sup> |     |       |       | 5000 | 45° 0 |
| Kasperské Hory | iP  |       | 43° 4              |     |       |       | 5000 | 45° 0 |
| Lillehammer    | iP  |       | 45° 6              |     |       |       | 5045 | 45° 4 |
| Trieste        | eIP |       | 47° 5              |     |       |       | 5070 | 45° 6 |
| Moza           | eP  |       | 51                 |     |       |       | 5110 | 46° 0 |
| Kongsberg      | iP  |       | 51° 3              |     |       |       | 5120 | 46° 1 |
| Erlangen       | eP  |       | 54° 9 <sup>C</sup> |     |       |       | 5155 | 46° 4 |
| Fürstfeldbruck | eIP |       | 57                 | esp | 10 44 | 32    | 5185 | 46° 7 |
| Bühlerhöhe     | eP  | 44    | 10° 7              |     |       |       | 5295 | 48° 5 |
| Champ du Feu   | eIP |       | 15° 4              |     |       |       | 5470 | 49° 2 |
| Haudompré      | eIP |       | 20° 8              |     |       |       | 5545 | 49° 9 |
| Mt. Tsukuba    | eP  |       | 24° 5              |     |       |       | 5600 | 50° 4 |
| Lanslevillard  | eIP |       | 24° 6              | ei  |       | 38° 5 | 5590 | 50° 3 |
| Roselend       | eP  |       | 24° 7              | e   | 45    | 16    | 5600 | 50° 4 |
| Isola          | iP  |       | 26° 3              |     |       |       | 5620 | 50° 6 |
| Vouglans       | eIP |       | 28° 0              | ei  | 44    | 39° 5 | 5650 | 50° 8 |
| Kyosumi        | eP  |       | 28° 5              |     |       |       | 5655 | 50° 9 |
| Monteynard     | eIP |       | 30                 |     |       |       | 5695 | 51° 3 |
| Lorgues        | eIP |       | 30° 3              |     |       |       | 5700 | 51° 3 |
| La Mourre      | eIP |       | 30° 6              |     |       |       | 5690 | 51° 2 |
| Sommée Lorpès  | eIP |       | 33° 7              |     |       |       | 5755 | 51° 8 |
| St. Saulge     | eIP |       | 36° 1              |     |       |       | 5780 | 52° 0 |
| Garchy         | iP  |       | 38° 3 <sup>D</sup> |     |       |       | 5805 | 52° 3 |
| Station Nord   | iP  |       | 42° 0              |     |       |       | 5870 | 52° 8 |
| St. Sauveur    | iP  |       | 49° 8              |     |       |       | 5990 | 53° 9 |
| Folinière      | iP  |       | 50° 6              |     |       |       | 6000 | 54° 0 |
| Gorron         | iP  |       | 53° 5              |     |       |       | 6045 | 54° 4 |
| Valentia       | iP  | 45    | 24° 7              |     |       |       | 6520 | 58° 7 |
| Tamanrasset    | eP  |       | 40                 | e   | 46    | 32    | 6780 | 61° 0 |
| Bangui         | eP  |       | 43° 0              | iS  | 53    | 55° 6 | 6855 | 61° 7 |
| Mould Bay      | iP  | 46    | 08° 8              |     |       |       | 7270 | 65° 4 |
| Resolute       | eP  |       | 19° 4              |     |       |       | 7470 | 67° 2 |
| Broken Hill    | eP  |       | 30                 | e   | 47    | 07° 0 | 7620 | 68° 5 |
| Pedro Dome     | iP  |       | 47° 7              |     |       |       | 7970 | 71° 7 |
| College        | iP  |       | 47° 7              |     |       |       | 7970 | 71° 7 |
| Gilmore Creek  | eP  |       | 48° 0              |     |       |       | 7970 | 71° 7 |
| Sparrevohn     | eP  |       | 54° 3              |     |       |       | 8070 | 72° 6 |

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|                 |      |                   |       |       |
|-----------------|------|-------------------|-------|-------|
| Black Rapids    | iP   | 10 46 57°0        | 8155  | 73°4  |
| Palmer          | eP   | 47 01°3           | 8230  | 74°1  |
| Big Mountain    | eP   | 02°7              | 8220  | 74°0  |
| Mt Sheep Creek  | eP   | 03°0              | 8270  | 74°4  |
| Lamto           | P    | 29°0              | 8770  | 78°9  |
| Charters Towers | eP   | 48 16°0           | 9780  | 88°0  |
| Edmonton        | eP   | 18°3 <sup>C</sup> | 9845  | 88°6  |
| Nordman         | eP   | 38°0              | 10310 | 92°8  |
| Newport         | iP   | 39°6              | 10345 | 93°1  |
| Bozeman SSS     | eP   | 53°7              | 10700 | 96°3  |
| Blue M.         | eP   | 53°8              | 10720 | 96°5  |
| Uinta Basin     | eP   | 49 19°3           | 11300 | 101°7 |
| Tonto Forest    | ePKP | 53 53°0           | 11955 | 107°6 |
| La Paz          | PKP  | 54 52°0           | 15730 | 141°6 |
| Arequipa        | PKP  | 59°1              | 15990 | 143°9 |

inscrit à Karoi - Bulawayo.

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Iles Salomon

5°2 S; 154°3 E; h = 95<sup>km</sup>; H = 11h.25<sup>mn</sup>05.7<sup>s</sup>.(CGS)

M. = 5.2(CGS - Shillong)

|                 |      |                       |           |             |
|-----------------|------|-----------------------|-----------|-------------|
| Wanliss Street  | eP   | 11 25 43 <sup>D</sup> | 270       | 2°4         |
| Rabalanakaia    | iP   | 43°1                  | 255       | 2°3         |
| Rabaul          | iP   | 43°5 <sup>D</sup>     | 270       | 2°4         |
| Sulphur         | iP   | 43°5                  | 255       | 2°3         |
| Keravat         | iP   | 44°5                  | 270       | 2°4         |
| Esa'Ala         | iP   | 26 27                 | 1S 27 29  |             |
| Port Moresby    | eP   | 27 04                 | eS 28 36  | 920 8°3     |
| Charters Towers | iP   | 28 57°2               | 1S 32 05  | 1870 16°8   |
| Brisbane        | iP   | 29 54°5               |           | 2455 22°1   |
| Meekatharra     | iP   | 32 32°7 <sup>D</sup>  |           |             |
| Shillong        | iP   | 35 55                 |           | 7530 67°8   |
| New Dehli       | eP   | 37 11                 |           |             |
| College         | eP   | 15°0                  | e 37 40°0 | 9080 81°7   |
| Gilmore Creek   | eP   | 15°6                  |           | 9090 81°8   |
| South Pole      | eP   | 30°3                  |           | 9430 84°9   |
| Wichita M.      | ePKP | 43 09°4               |           | 11890 107°0 |

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Petites Antilles

17°6 N; 61°0W; h = 33<sup>km</sup>; H = 12.°58<sup>mn</sup>10.2<sup>s</sup>.(CGS)

M. = 5.6(Caracas); 5.3(Newport\_Alert\_Bangui); 5.0(Gilmore Creek);  
 4.8(College); 4.7(CGSL); 4.8(Penas); 4.5(Bozeman SSS); 4.4(Dugway);  
 4.3(Uinta Basin); 4.2(BlueM.); 4.1(Tonto Forest); 4.0(Wichita M. Eureka).

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|                 |       |       |        |      |       |       |       |        |
|-----------------|-------|-------|--------|------|-------|-------|-------|--------|
| San Juan        | iP    | 12 59 | 22° 5  | 1S   | 13 00 | 19° 5 | 555   | 5° 0   |
| Caracas         | ePn   | 13 00 | 24° 0  |      |       |       | 10 10 | 9° 1   |
| Bogota          | eP    | 02    | 24° 0  |      |       |       | 20 20 | 18° 2  |
| La Palma        | eP    | 03    | 54° 0  |      |       |       | 30 30 | 27° 3  |
| Huancayo        | iP    | 04    | 40° 0  |      |       |       | 36 30 | 32° 7  |
| La Paz          | eP    |       | 52° 0  |      |       |       | 38 45 | 34° 6  |
| Penas           | eP    |       | 55° 7  |      |       |       | 38 30 | 34° 5  |
| Wichita M.      | eP    | 05    | 23° 4  | ePP  | 06 45 | 5     | 4 180 | 37° 6  |
| Albuquerque     | eP    | 06    | 16° 0  |      |       |       | 4880  | 43° 9  |
| Tucson          | eP    |       | 41° 5  | e    |       | 51° 1 | 52 30 | 47° 1  |
| Uinta Basin     | eP    |       | 44° 6  |      |       |       | 52 30 | 47° 5  |
| Tonto Forest    | eP    |       | 47° 2  | ePCP | 08 16 | 6     | 5300  | 47° 7  |
| Dugway          | eP    | 07    | 03° 2  | e    | 07 12 | 7     | 5545  | 49° 9  |
| Bozeman SSS     | eP    |       | 06° 2  | e    |       | 16° 7 | 5590  | 50° 3  |
| Eureka          | iP    |       | 20° 2  |      |       |       | 57 30 | 52° 1  |
| Goldstone       | P     |       | 23° 0  | SP   |       | 33° 0 | 58 10 | 52° 3  |
| Hungry Horse    | eP    |       | 23° 3  |      |       |       | 58 55 | 52° 7  |
| Edmonton        | eP    |       | 31° 0  |      |       |       | 59 0  | 53° 8  |
| Blue M.         | eP    |       | 33° 0  |      |       |       | 6000  | 54° 0  |
| Newport         | iP    |       | 37° 4  | e    |       | 48° 0 | 6070  | 54° 6  |
| Nordman         | iP    |       | 37° 7  | e    |       | 48° 0 | 6070  | 54° 6  |
| Lamto           | P     |       | 48° 0  |      |       |       | 6 190 | 55° 7  |
| Oroville        | eP    |       | 51° 5  |      |       |       |       |        |
| Le Pouchou      | eIP   | 08    | 04° 0  |      |       |       |       |        |
| Archignac       | eIP   |       | 04° 4  |      |       |       |       |        |
| Toulx Ste Croix | eIP   |       | 0 9 8  |      |       |       |       |        |
| Resolute        | eP    |       | 14° 0  |      |       |       | 6670  | 60° 0  |
| Garchy          | iP    |       | 14° 7  |      |       |       |       |        |
| St Saulge       | eIP   |       | 16° 1  |      |       |       | 66 70 | 60° 0  |
| Sommees Lorm es | eIP   |       | 17° 9  |      |       |       | 6690  | 60° 2  |
| Les Buteaux     | eIP   |       | 18° 2  |      |       |       |       |        |
| Tamanrasset     | e(P)  |       | 33     |      |       |       | 6690  | 60° 2  |
| Alert           | eP    |       | 47° 6D |      |       |       | 7 210 | 64° 9  |
| Mould Bay       | eP    |       | 53° 0D |      |       |       | 7300  | 65° 7  |
| Uméa            | iP    | 09    | 23° 1  |      |       |       |       |        |
| Gilmore Creek   | eP    |       | 36° 3  |      |       |       | 8080  | 72° 7  |
| College         | eP    |       | 37° 0  |      |       |       | 8 100 | 72° 9  |
| Nurmijaervi     | eP    |       | 38     |      |       |       | 8080  | 72° 7  |
| Oulu            | eP    |       | 38     |      |       |       |       |        |
| Bangui          | iP    | 10    | 12° 6D | iPP  | 10 25 | 6     | 8745  | 78° 7  |
| Brisbane        | ePKP  | 17    | 58° 5  |      |       |       | 16380 | 147° 4 |
| Canberra        | ePKP2 | 18    | 05     |      |       |       | 16455 | 148° 1 |

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Haute Silésie

|             |         |       |        |     |       |       |  |  |
|-------------|---------|-------|--------|-----|-------|-------|--|--|
| Eydom       | e       | 13 03 | 05° 4  |     |       |       |  |  |
| Dabrova     | e       |       | 07° 3  |     |       |       |  |  |
| Krakow      | ePg     |       | 17° 7  | SS  | 13 03 | 2 2   |  |  |
| Rybnik      | e       |       | 19     |     |       |       |  |  |
| Niedzi caca | eIPg    |       | 27° 4D | eSS |       | 47° 6 |  |  |
| Raciborz    | e       |       | 32     |     |       |       |  |  |
|             | inscrit | à     | abrze. |     |       |       |  |  |

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Région des îles Açores

41°3'N, 29°3'W h = 33 km H = 12<sup>h</sup>21<sup>m</sup>33<sup>s</sup> (CGS)

M = 5°7 (Bangui), 5°2 (Newport), 4°7 (Dugway, CGS),  
4°6 (Tonto Forest), 4°5 (Blue M.), 4°4 (Uinta Basin,  
Wichita M).

|                 |     |    |    |         |     |    |    |      |      |      |
|-----------------|-----|----|----|---------|-----|----|----|------|------|------|
| Ponta Delgada   | Pn  | 13 | 22 | 27°7    | Sn  | 13 | 23 | 1660 | 505  | 4°5  |
| Ifrane          | eP  |    | 26 | 13      |     |    |    |      | 2300 | 20°7 |
| Le Pertre       | eP  |    |    | 18°0    |     |    |    |      | 2345 | 21°1 |
| Gorron          | eP  |    |    | 19°9    |     |    |    |      | 2365 | 21°3 |
| St Sauveur      | eP  |    |    | 25°9    |     |    |    |      | 2425 | 21°8 |
| Tortosa         | eP  |    |    | 33      |     |    |    |      | 2490 | 22°4 |
| Toulx Ste Croix | eP  |    |    | 40°1    |     |    |    |      | 2575 | 23°2 |
| Geychy          | eP  |    |    | 44°6D   |     |    |    |      | 2645 | 23°8 |
| St Saulge       | eP  |    |    | 47°9    |     |    |    |      | 2880 | 24°1 |
| Sommée Lormes   | eP  |    |    | 50°5    |     |    |    |      | 2705 | 24°3 |
| Les Buteaux     | eP  |    |    | 50°8    |     |    |    |      | 2715 | 24°4 |
| Bensberg        | eP  |    | 27 | 13      | eLR |    | 34 | 20   | 2980 | 26°8 |
| Kasperské Hory  | eIP |    |    | 47°5    |     |    |    |      | 3430 | 30°9 |
| Pruhonice       | eP  |    |    | 54°4    |     |    |    |      | 3500 | 31°5 |
| Tamanrasset     | eP  |    | 28 | 20      |     |    |    |      | 3835 | 34°5 |
| Lamto           | P   |    |    | 29 17°1 |     |    |    |      | 4570 | 41°1 |
| Resolute        | eP  |    |    | 41°0    |     |    |    |      | 4910 | 44°2 |
| Mould Bay       | eP  |    | 30 | 29°0    |     |    |    |      | 5590 | 50°3 |
| Wichita M.      | eP  |    |    | 53°0    |     |    |    |      | 5970 | 53°7 |
| Edmonton        | eP  |    | 31 | 04°0    |     |    |    |      | 6120 | 55°1 |
| Bangui          | iP  |    |    | 13°6D   | iPP |    | 33 | 12°6 | 6270 | 56°4 |
| Uinta Basin     | eP  |    |    | 2°1     |     |    |    |      | 6510 | 58°6 |
| Nordman         | eP  |    |    | 33°0    |     |    |    |      | 6580 | 59°2 |
| Albuquerque     | eP  |    |    | 34°0    |     |    |    |      | 6530 | 59°2 |
| Newport         | eP  |    |    | 34°0    |     |    |    |      | 6800 | 60°8 |
| Dugway          | eP  |    |    | 43°7    |     |    |    |      | 6755 | 60°8 |
| Blue M.         | eP  |    |    | 46°6    |     |    |    |      | 6810 | 61°3 |
| Eureka          | eP  |    |    | 58°3    |     |    |    |      | 7020 | 63°2 |
| Tonto Forest    | eP  |    | 32 | 00°0    |     |    |    |      | 640  | 62°9 |
| Tucson          | eP  |    |    | 04°2    |     |    |    |      | 7070 | 63°6 |
| Goldstone       | P   |    |    | 20      |     |    |    |      | 7345 | 66°6 |
| Quetta          | eP  |    | 33 | 15°2C   |     |    |    |      | 8345 | 75°1 |

inscitt à l'Aquila, Trieste, Strasbourg,  
Toledo, La Palma.

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Alaska

70°3'N, 143°8'W h = 33 km H = 14<sup>h</sup>04<sup>m</sup>4<sup>s</sup> (CGS)

M = 5°1 (College), 4°5 (CGS), 3°9 (Uinta Basin)

|               |    |    |    |      |      |    |    |      |     |     |
|---------------|----|----|----|------|------|----|----|------|-----|-----|
| Barrow        | eP | 14 | 05 | 53°9 | i(S) | 14 | 06 | 45°5 | 490 | 4°4 |
| Pedro Dome    | iP |    | 06 | 10°7 |      |    |    |      | 610 | 5°5 |
| Gilmore Creek | eP |    |    | 11°0 |      |    |    |      | 620 | 5°6 |
| College       | eP |    |    | 13°0 | e    |    |    | 43°0 | 630 | 5°7 |

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|               |      |    |    |                   |   |    |    |      |      |
|---------------|------|----|----|-------------------|---|----|----|------|------|
| Tanana        | 1P   | 14 | 06 | 16.8              |   |    |    | 870  | 6.0  |
| Blacks Rapids | 1P   |    |    | 30.4              |   |    |    | 770  | 6.9  |
| Palmer        | eP   |    |    | 57.6              |   |    |    | 1000 | 9.0  |
| Mould Bay     | eP   |    | 07 | 02                | i | 14 | 08 | 50.0 | 10.1 |
| Coppermine    | eP   |    |    | 19.5 <sup>D</sup> |   |    |    | 1170 | 10.5 |
| Sparrevohn    | eP   |    |    | 20.0              |   |    |    | 1155 | 10.4 |
| Res dute      | eP   |    | 08 | 17.0              |   |    |    | 1855 | 14.9 |
| Edmonton      | eP   |    | 09 | 44.0              |   |    |    | 2445 | 22.0 |
| Blue M.       | eP   |    | 10 | 50.6              |   |    |    | 3190 | 28.7 |
| Dugway        | eP   |    | 11 | 39.0              |   |    |    | 3800 | 34.2 |
| Uinta Basin   | eP   |    |    | 43.6              |   |    |    | 3880 | 34.9 |
| Tonto Forest  | e(P) |    | 12 | 34.8              |   |    |    | 4480 | 40.2 |

XXIII. 22 janvier  
Région de la Nouvelle Bretagne

H = 14<sup>h</sup>16<sup>mn</sup>4<sup>s</sup> (Rabaul)

|                |    |    |    |                   |    |    |    |      |  |
|----------------|----|----|----|-------------------|----|----|----|------|--|
| Rabalanakaia   | 1P | 14 | 17 | 23.0              |    |    |    |      |  |
| Wanliss Street | 1P |    |    | 23.5 <sup>D</sup> |    |    |    |      |  |
| Rabaul         | 1P |    |    | 23.5 <sup>D</sup> | 1S | 14 | 17 | 49.5 |  |
| Keravat        | 1P |    |    | 24.5 <sup>D</sup> | 1S |    |    | 51.5 |  |
| Esa'Ala        | 1P |    | 18 | 06.5              | 1S |    | 19 | 08.5 |  |
| Port Moresby   | 1P |    |    | 43.8 <sup>D</sup> | eS |    | 20 | 14   |  |
| Goroka         | eP |    | 19 | 13.5              |    |    |    |      |  |
| Brisbane       | 1P |    | 21 | 34                |    |    |    |      |  |

XXIV. 22 janvier  
Essaim de Mat sus hiro (Japon)

36° 27' N, 138° 05' E h = 10 km H = 14<sup>h</sup>23<sup>mn</sup>45.2<sup>s</sup> (JMA)

|            |    |    |    |      |    |    |    |      |    |     |
|------------|----|----|----|------|----|----|----|------|----|-----|
| Matsushiro | P  | 14 | 28 | 49.2 | S  | 14 | 28 | 51.0 | 15 | 0.1 |
| Nagano     | 1P |    |    | 50.9 | S  |    |    | 54.0 | 25 | 0.2 |
| Matsumoto  | 1P |    |    | 51.3 | 1S |    |    | 55.1 | 25 | 0.2 |
| Kamizawa   | 1P |    |    | 53.9 | S  |    | 29 | 00.4 | 44 | 0.4 |
| Abuyama    | 1P |    | 29 | 35.4 | eS |    | 30 | 07.6 |    |     |

XXV. 22 janvier  
Région de la Nouvelle Bretagne

H = 14<sup>h</sup>28<sup>mn</sup>52<sup>s</sup> (Rabaul)

|              |    |    |    |                   |    |    |    |      |  |
|--------------|----|----|----|-------------------|----|----|----|------|--|
| Rabaul       | 1P | 14 | 27 | 37.5 <sup>D</sup> | 1S | 14 | 28 | 11.0 |  |
| Keravat      | eP |    |    | 37.5 <sup>D</sup> | 1S |    |    | 09.5 |  |
| Rabalanakaia | eP |    |    | 37.5              |    |    |    |      |  |
| Esa'Ala      | 1P |    |    | 48.5              | 1S |    |    | 33.5 |  |
| Port Moresby | eP |    | 28 | 33                | eS |    | 29 | 55   |  |

XXVI. 22 janvier  
Près de la cote, Région Nord de la Californie

40° 3' N, 124° 2' W h = 33 km H = 14<sup>h</sup>53<sup>mn</sup>38<sup>s</sup> (CGS)  
M = 4.8 (Uinta Basin), 4.3 (Dugway), 4.2 (CGS),  
3.9 (Eureka), 3.7 (Blue M).

|         |    |    |    |                   |   |    |    |      |      |     |
|---------|----|----|----|-------------------|---|----|----|------|------|-----|
| Ukiah   | eP | 14 | 53 | 59.7              | e | 14 | 54 | 05.5 | 155  | 1.4 |
| Mineral | P  |    | 54 | 08.0 <sup>C</sup> | S |    |    | 33.0 | 2.20 | 2.0 |

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|              |     |    |    |        |   |    |    |      |      |      |
|--------------|-----|----|----|--------|---|----|----|------|------|------|
| Oroville     | iP  | 14 | 54 | 10.7   | 1 | 14 | 54 | 39.0 | 245  | 2.2  |
| Berkeley     | P   |    |    | 20.7D  |   |    |    |      | 320  | 2.9  |
| Mt Hamilton  | P   |    |    | 31.0D  |   |    |    |      | 400  | 3.6  |
| Jamestown    | P   |    |    | 34.4 D |   |    |    |      | 420  | 3.8  |
| San Luis Dam | eP  |    |    | 36.4   |   |    |    |      | 445  | 4.0  |
| Priest       | iP  |    |    | 56.3C  |   |    |    |      | 555  | 5.0  |
| Eureka       | iP  |    |    | 10.8   |   |    |    |      | 710  | 6.4  |
| Blue M.      | eP  |    |    | 16.5   |   |    |    |      | 756  | 6.8  |
| Dugway       | eP  |    | 55 | 43.7   |   |    |    |      | 70   | 8.7  |
| Uinta Basin  | eP  |    | 56 | 21.2   |   |    |    |      | 1245 | 11.2 |
| Wichita M.   | ePP |    | 58 | 59.4   |   |    |    |      |      |      |

XXVII. 22 janvier  
Réplique du VII - 22 Janvier H = 15<sup>h</sup>30<sup>mn</sup>57.5<sup>s</sup> (Madrid)

|          |     |    |    |      |     |    |    |      |
|----------|-----|----|----|------|-----|----|----|------|
| Alicante | iPg | 15 | 31 | 09.0 | 1Sg | 15 | 31 | 17.8 |
| Toledo   | e   |    |    | 54.8 | 1Sg |    | 32 | 33.6 |
| Tortosa  | i   |    | 32 | 25   |     |    |    |      |

XXVIII. 22 janvier  
Iles Salomon

5° 1S, 154° 1E h = 117<sup>km</sup> H = 15<sup>h</sup>33<sup>mn</sup>41.2<sup>s</sup> (CGS)  
H = 15<sup>h</sup>36<sup>mn</sup>43<sup>s</sup> (Rabaul)

M = 5.2 (Adelaide), 4.8 (CGS), 4.4 (College)

|                 |      |    |    |       |      |    |    |    |       |       |
|-----------------|------|----|----|-------|------|----|----|----|-------|-------|
| Rabaul          | iP   | 15 | 37 | 17.0D | 1S   | 15 | 37 | 43 | 230   | 2.1   |
| Keravat         | iP   |    |    | 18D   |      |    |    |    | 245   | 2.2   |
| Esa'Ala         | iP   |    | 38 | 01D   | 1S   |    | 39 | 03 |       |       |
| Honiara         | eP   |    |    | 25    |      |    |    |    | 800   | 7.2   |
| Port Moresby    | iP   |    |    | 38.1D | 1S   | 15 | 40 | 11 |       |       |
| Charters Towers | i(P) |    | 40 | 40.3  | 1(S) |    | 43 | 36 | 1855  | 16.7  |
| Brisbane        | iP   |    | 41 | 28    |      |    |    |    | 2470  | 22.2  |
| Darwin          | eP   |    |    | 47.0  |      |    |    |    | 2680  | 24.1  |
| Adelaide        | iP   |    | 43 | 05.6D |      |    |    |    | 3655  | 32.9  |
| Tarraleah       | iP   |    |    | 46.8  |      |    |    |    | 4180  | 37.6  |
| Tasmania Uni.   | iP   |    |    | 50.3  |      |    |    |    | 4230  | 38.1  |
| Meekeatharra    | iP   |    | 44 | 05.8C |      |    |    |    |       |       |
| College         | eP   |    | 46 | 47.0  |      |    |    |    | 9080  | 81.7  |
| South Pole      | eP   |    | 49 | 03.4  |      |    |    |    | 9430  | 84.9  |
| Hyrd            | e    |    |    | 27.6  |      |    |    |    | 9370  | 84.3  |
| Qietta          | eP   |    |    | 29.6D |      |    |    |    | 10010 | 90.1  |
| Eureka          | eP   |    |    | 45.0  |      |    |    |    | 10355 | 93.2  |
| La Paz          | ePKP |    | 55 | 30    |      |    |    |    |       |       |
| Tamanrasset     | ePKP |    | 56 | 06    |      |    |    |    | 16110 | 145.0 |

inscrit à La Paz.

XXIX. 22 janvier  
Pres de la cote de Guerrero (Mexique)

46° 28' N, 98° 05' W H = 15<sup>h</sup>40<sup>mn</sup>11<sup>s</sup> (Tacubaya)

|                 |    |    |    |      |    |    |    |      |     |     |
|-----------------|----|----|----|------|----|----|----|------|-----|-----|
| Vista Hermosa   | iP | 15 | 40 | 37   | 1S | 15 | 40 | 54   | 150 | 1.4 |
| Pres B. Juarez  | iP |    |    | 50.3 | 1S |    | 41 | 19.5 | 262 | 2.4 |
| Pres Infernillo | eP |    | 41 | 17   |    |    |    |      | 452 | 4.1 |

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XXX. 22 Janvier  
Haute Silésie

|          |     |    |          |
|----------|-----|----|----------|
| Chorzów  | eP  | 15 | 41(11°7) |
| Dabrova  | e   |    | 15°1     |
| Krakow   | eSg |    | 34°2     |
| Niedzica | ePg |    | 35°1     |

XXXI. 22 Janvier  
Atlantique, Golfe de Cadix

|        |      |     |   |
|--------|------|-----|---|
| 36°4N, | 7°2W | H = | 15 <sup>h</sup> 43 <sup>mn</sup> 03 <sup>s</sup> (BCIS)     |
| 35°6N, | 7°3W | H = | 15 <sup>h</sup> 43 <sup>mn</sup> (10) <sup>s</sup> (Rabat)  |
| 36°4N, | 7°1W | H = | 15 <sup>h</sup> 43 <sup>mn</sup> 03°5 <sup>s</sup> (Madrid) |
| M =    | 4°9  |     | (Madrid)  |

|                 |                   |    |    |                   |      |    |    |                   |      |      |
|-----------------|-------------------|----|----|-------------------|------|----|----|-------------------|------|------|
| Malaga          | iPg               | 15 | 43 | 42                | iSg  | 15 | 44 | 08                | 250  | 2°3  |
| Rabat           | ePn               |    |    | (43°5)            | Sn   |    |    | 10                | 285  | 2°4  |
| Rabat_Z.        | i <sup>1</sup> Pn |    |    | 44°0 <sup>D</sup> |      |    |    |                   | 275  | 2°5  |
| Averroes        | iPn               |    |    | 52°0              | eiSn |    |    | 23°5 <sup>D</sup> | 345  | 3°1  |
| Lisboa          | Pn                |    |    | 54°3              | Sn   |    |    | 33°2              | 310  | 2°8  |
| Ifrane          | iPn               |    |    | 54°7 <sup>D</sup> | eiSn |    |    | 29 -              | 370  | 3°3  |
| Almería         | iPn               |    | 44 | 02°7              | eSn  |    |    | 54°5              | 425  | 3°8  |
| Toledo          | iPn               |    |    | 09°2              | iSn  |    |    | 54°8              | 475  | 4°3  |
| Porto           | ePn               |    |    | 16°2              | iSn  |    | 45 | 07°2              | 540  | 4°9  |
| Logrono         | eP                |    | 45 | 04                | eSn  |    | 46 | 04                | 785  | 7°1  |
| La Frestale     | ei(P)             |    |    | 42°9              | eS   |    | 47 | 20°0              | 1160 | 10°4 |
| Le Pouchou      | ei(P)             |    |    | 42°9              | eS   |    |    | 21°2              | 1160 | 10°4 |
| Archignac       | ei(P)             |    |    | 47°1              | eS   |    |    | 27°2              | 1195 | 10°8 |
| Toulx Ste Croix | eP                |    |    | 56°8              |      |    |    |                   | 1350 | 12°1 |
| St Saulge       | eP                |    | 46 | 11°1              |      |    |    |                   | 1485 | 13°3 |
| Les Buteaux     | eP                |    |    | 11°3              |      |    |    |                   | 1495 | 13°5 |
| Sommée Lormes   | eP                |    |    | 14°7              |      |    |    |                   | 1510 | 13°8 |

XXXII. 22 Janvier  
Nor dlands Fylke

|            |       |     |   |      |
|------------|-------|-----|---|------|
| 66°4N,     | 14°8E | H = | 16 <sup>h</sup> 17 <sup>mn</sup> 3 <sup>s</sup> (Uppsala) |      |
| Kiruna     | iSg   | 16  | 19  | 22°0 |
| Skalstugan | iSg   |     |   | 26°6 |
| Umeå       | iSn   |     |   | 35°8 |
| Oulu       | eSg   |     | 20  | 27   |
| Sodankylae | eSg   |     |   | 30   |
| Kajaani    | eSg   |     | 21  | 04   |

XXXIII. 22 Janvier  
région de l'île de Paques

|          |        |     |                         |      |  |
|----------|--------|-----|-------------------------|------|--|
| 28°5S,   | 112°6W | h = | 33 <sup>km</sup>        | H =  | 17 <sup>h</sup> 36 <sup>mn</sup> 31 <sup>s</sup> (CGS) |
| M =      | 4°9    |     | (Blue M, La Paz),       | 4°7  | (Uinta Basin),   |
| 4°6      | (CGS), | 4°4 | (Dugway, Tinto Forest), | 4°3  | (Wichita M, Eureka).                                   |
| Huancayo | eP     | 17  | 43                      | 53°0 | 4280 38°5  |



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|              |     |       |                   |                   |       |       |
|--------------|-----|-------|-------------------|-------------------|-------|-------|
| Arequipa     | eP  | 17 44 | 02°2              |                   | 4410  | 39°7  |
| Penas        | P   |       | 26°5              |                   |       |       |
| La Paz       | eP  |       | 27°0              |                   | 4730  | 42°6  |
| South Pole   | eP  | 46    | 49°1              |                   | 6855  | 61°7  |
| Tonto Forest | eP  |       | 54°1              |                   | 6930  | 62°4  |
| Goldstone    | P   | 47    | 01                |                   | 7070  | 63°6  |
| Wichita M.   | eP  |       | 06°5              | e(PcI) 17 47 27°5 | 7145  | 64°3  |
| Priest       | eP  |       | 16°3 <sup>C</sup> |                   |       |       |
| Mt. Hamilton | eP  |       | 16°7 <sup>C</sup> |                   |       |       |
| Berkeley     | eP  |       | 19° <sup>C</sup>  | LR 18 09 15       |       |       |
| Jamestown    | eP  |       | 21°1 <sup>C</sup> |                   |       |       |
| Eureka       | iP  |       | 28°0              |                   | 7520  | 67°7  |
| Dugway       | eP  |       | 31°2              |                   | 7590  | 68°3  |
| Uinta Basin  | eP  |       | 31°8              |                   | 7610  | 68°5  |
| Blue M.      | eP  |       | 59°7              |                   | 8120  | 73°1  |
| Bozeman SSS  | eP  | 48    | 03°5              |                   | 8190  | 73°7  |
| Hungfy Horse | eP  |       | 19°5              |                   | 8500  | 76°5  |
| Newport      | eP  |       | 20°0              |                   | 8500  | 76°5  |
| Nordman      | eP  |       | 21°0              |                   | 8545  | 76°9  |
| Edmonton     | eP  |       | 46°0              |                   | 9045  | 81°4  |
| Bangui       | PKP | 55    | 34°7              |                   | 14210 | 137°9 |

inscrit à Nat.Univ.Mexico.

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Région Est de la Nouvelle Guinée.

9°8S; 149°0E; h = 27km; H = 18h.16mn49.8S. (CGS)  
 9°8S; 149°1E; H = 18h.16mn50S. (URSS)

M. = 5.8(College); 5.5(Rabaul); 5.3(CGS\_Adélaide); 5.2(Blue M.-Eureka-  
 Uinta Nasin); 4.8(Mt. Tsukuba)

|                 |     |         |                   |              |      |      |
|-----------------|-----|---------|-------------------|--------------|------|------|
| Esa'Ala         | iP  | 18 17   | 18°5              |              |      |      |
| Port Moresby    | iP  |         | 19°2 <sup>D</sup> | eS 18 17°44  | 200  | 1°8  |
| Goroka          | eP  | 18 09   |                   |              | 580  | 5°2  |
| Keravat         | iP  |         | 23°5 <sup>D</sup> | iS 19 35°5   | 700  | 6°3  |
| Rabaul          | eIP |         | 24° <sup>D</sup>  | iS 36        | 720  | 6°5  |
| Wanliss Street  | iP  |         | 24°5              |              | 720  | 6°5  |
| Sulphur Creek   | eP  |         | 24°5              |              | 710  | 6°4  |
| Tabele          | eP  |         | 35°5              |              |      |      |
| Charters Towers | iP  | 19 20   |                   | eS 21 26     | 1170 | 10°5 |
| Honiara         | eP  |         | 28                | eS 42        | 1200 | 10°8 |
| Brisbane        | eP  | 20 58   |                   | i(S) 24 25   | 1980 | 17°8 |
| Darwin          | eP  | 21 00°0 |                   | e(S) 26 30°0 | 2000 | 18°0 |
| Luganville      | iP  |         | 08°0              |              | 2070 | 18°6 |
| Port Vila       | iP  |         | 28°4              |              | 2270 | 20°4 |
| Ouanaham        | eP  |         | 30°2 <sup>C</sup> |              | 2300 | 20°7 |
| Nouméa          | iP  |         | 31°8 <sup>C</sup> |              | 2320 | 20°9 |
| Guam            | eP  | 22 01°2 |                   | eS 16°0      | 2620 | 23°6 |
| Canberra        | eP  |         | 16                | eS 48        | 2820 | 25°4 |
| Adélaide        | eP  |         | 28°2 <sup>C</sup> |              | 2970 | 26°7 |
| Tohlangi        | eP  |         | 38°0              | e 28 29°0    | 4090 | 27°8 |

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|                   |    |                      |    |                    |       |       |
|-------------------|----|----------------------|----|--------------------|-------|-------|
| Davao             | eP | 18 22 50°0           | eS | 18 27 32°0         | 3190  | 28°7  |
| Savannah          | iP | 23 15°9 <sup>D</sup> |    |                    | 3530  | 31°8  |
| Tarrareah         | iP | 20°9 <sup>D</sup>    |    |                    | 3600  | 32°4  |
| Moorlands         | iP | 22°0                 |    |                    | 3610  | 32°5  |
| Kalgoorlie        | iP | 23°0 <sup>C</sup>    |    |                    |       |       |
| Meekatharra       | iP | 24°3 <sup>D</sup>    |    |                    |       |       |
| Tasmania Univ.    | iP | 25°8 <sup>D</sup>    | e  | 28 08°0            | 3670  | 33°0  |
| Munda ing         | iP | 24 01°8              |    |                    | 4170  | 37°5  |
| Baguio            | eP | 10°5                 | e  | 34 12°0            | 4255  | 38°3  |
| Afiyalu           | eP | 15                   | e  | 33°57              | 4290  | 38°6  |
| Shiraki           | eP | 25 17°7              |    |                    | 5200  | 46°8  |
| Dodaira           | eP | 17°9                 |    |                    | 5170  | 46°5  |
| Mt. Tsukuba       | eP | 19°2                 |    |                    | 5180  | 46°6  |
| Vladivostok       | eP | 26 23                | iS | 33 57              | 6110  | 55°0  |
| Chittagong        | eP | 27 27                |    |                    |       |       |
| Shillong          | iP | 34                   |    |                    |       |       |
| Oulan Bator       | iP | 51                   |    |                    |       |       |
| Bodajbo           | iP | 28 19                |    |                    | 8150  | 73°2  |
| Yakoutsk          | iP | 19 <sup>C</sup>      | eS | 37 48              | 8130  | 73°2  |
| Esen Boulak       | eP | 20                   |    |                    |       |       |
| Dehra Dun         | eP | 51                   | i  | 29 52 <sup>C</sup> |       |       |
| New Dehli         | eP | 52°1                 |    |                    | 8780  | 79°0  |
| Poona             | iP | 54                   |    |                    |       |       |
| South Pole        | iP | 59°1                 |    |                    | 8910  | 80°2  |
| Bombay            | eP | 29 02                | e  | 38 44              |       |       |
| Tiksi             | iP | 08                   | eS | 39 25              | 9155  | 82°4  |
| Sparrevohn        | eP | 15°0                 |    |                    | 9210  | 82°9  |
| Talgar            | iP | 17 <sup>D</sup>      |    |                    | 9310  | 83°8  |
| Semipalatinsk     | P  | 19°9                 |    |                    | 9380  | 84°4  |
| Warsak            | P  | 24                   |    |                    |       |       |
| Frounze           | eP | 25°8                 |    |                    | 9800  | 85°5  |
| Palmer            | eP | 27°3                 |    |                    | 9530  | 85°8  |
| Mt. SheepCreek    | eP | 33°0                 |    |                    | 9630  | 86°7  |
| Garm              | eP | 38                   |    |                    | 9720  | 87°5  |
| College           | eP | 37°3                 |    |                    | 9780  | 88°0  |
| Gilmore Creek     | eP | 38°0                 |    |                    | 9790  | 88°1  |
| Pedro Dome        | eP | 38°0                 |    |                    | 9790  | 88°1  |
| Quetta            | eP | 39°6 <sup>C</sup>    | eS | 40 12°2            | 9790  | 88°1  |
| Black Rapids      | eP | 40°0                 |    |                    | 9790  | 88°1  |
| Barrow            | eP | 42°0                 |    |                    | 9845  | 88°6  |
| Tachkent          | eP | 44 <sup>C</sup>      |    |                    | 9870  | 88°8  |
| Novo_Lazarevskaya | eP | 30 08                |    |                    | 10510 | 94°6  |
| Oroville          | eP | 16°0                 |    |                    | 10645 | 95°8  |
| Berkeley          | eP | 17°2 <sup>D</sup>    |    |                    |       |       |
| Mt. Hamilton      | eP | 19°2 <sup>D</sup>    |    |                    |       |       |
| Jamestown         | eP | 23°4 <sup>D</sup>    |    |                    | 10710 | 96°4  |
| Blue M.           | eP | 35°0                 |    |                    | 11055 | 99°5  |
| Newport           | eP | 37°0                 |    |                    | 11100 | 99°9  |
| Nordman           | eP | 38°0                 |    |                    | 11110 | 100°0 |
| Eureka            | iP | 41°2                 |    |                    | 11120 | 100°1 |
| Uinta Basin       | eP | 31 02°7              |    |                    | 11670 | 105°0 |

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|                  |                   |       |                   |     |       |       |       |       |
|------------------|-------------------|-------|-------------------|-----|-------|-------|-------|-------|
| Wichita M.       | ePKP              | 18 35 | 24°8              |     |       |       | 12670 | 114°0 |
| Niedzica         | PKP               |       | 43°2 <sup>C</sup> |     |       |       |       |       |
| Moxa             | PKP               |       | 51                |     |       |       | 14030 | 126°3 |
| Kasperské Hory   | PKP               |       | 51                |     |       |       | 14010 | 126°1 |
| Fürstenfeldbruck | ePKP <sub>1</sub> |       | 57                |     |       |       |       |       |
| Bangui           | 1PKP <sub>1</sub> | 36    | 01°2              | 1PP | 18 38 | 12°5  | 14500 | 130°5 |
| Huancayo         | PKP               |       | 04°0              |     |       |       | 14545 | 130°9 |
| La Paz           | ePKP              |       | 10                |     |       |       |       |       |
| Penas            | ePKP              |       | 13                |     |       |       |       |       |
| Tamanrasset      | ePKP              |       | 24                |     |       |       | 15855 | 142°7 |
| San Juan         | PKP               |       | 24°5              |     |       |       | 16110 | 145°0 |
| Caracas          | PKP               |       | 24°5              |     |       |       | 16080 | 144°7 |
| Ifrane           | PKP               |       | 30°5              | M   |       | 36 35 | 16280 | 146°5 |
| Rabat            | PKP               |       | 34                |     |       |       | 16370 | 147°3 |
| Rabat Z          | PKP               |       | 34°5              |     |       |       |       |       |
| Averroes         | PKP               |       | 38                |     |       |       | 16455 | 148°1 |
| Trinidad         | PKP               |       | 40°0              |     |       |       | 16680 | 150°1 |
| Lamto            | PKP               |       | 48°7              |     |       |       | 17110 | 154°0 |

Inscrit à Kodaikanal - Tolédo.

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Au sud du Hondo (Japon)

31°4'N; 138°1'E; h = 411km; H = 18h.35<sup>mn</sup>49.7s. (CGS)  
 31°37'N; 138°40'E; H = 420km; H = 18h.35<sup>mn</sup>51.4s. (JMA)

M. = 4.9 (New Dehli); 4.7 (Nurmijaerwi-Eureka-Newport); 4.6 (Uinta Basin);  
 4.5 (CGS-Dugway-Bozeman SSS); 4.4 (Blue M.); 4.2 (Albuquerque);  
 3.7 (Tonto Forest).

|                 |    |       |                   |    |       |      |      |      |
|-----------------|----|-------|-------------------|----|-------|------|------|------|
| Hachiojima      | P  | 18 36 | 49°6              | S  | 18 37 | 35°6 |      |      |
| Oishiyama       | eP | 37    | 00°6              | eS |       | 56°7 | 400  | 5°6  |
| Wakaura         | eP |       | 02°1              |    |       |      | 410  | 3°7  |
| Kyosumi         | 1P |       | 03°3              |    |       |      | 470  | 4°2  |
| Abuyama         | 1P |       | 05°4              |    |       |      |      |      |
| Dodaira         | 1P |       | 08°7              |    |       |      | 520  | 4°7  |
| Mt. Tsukuba     | 1P |       | 11°3              |    |       |      | 570  | 5°1  |
| Matsushiro      | 1P |       | 13°7              | S  | 38 18 |      |      |      |
| Shiraki         | eP |       | 19°7              |    |       |      | 610  | 5°5  |
| Fukushima       | eP |       | 27°4              | eS |       | 46°3 |      |      |
| Tokyo           | e  |       | 46°3              | eS |       | 07°0 |      |      |
| Utsunomiya      | e  |       | 54°3              | eS |       | 20°1 |      |      |
| Séoul           | eP | 38    | 16°8              |    |       |      | 1230 | 11°1 |
| Sendai          | e  |       | 45°5              | S  |       | 56°5 |      |      |
| Guam            | eP | 39    | 43°0              |    |       |      | 2090 | 18°8 |
| Shillong        | eP | 42    | 54°0              |    |       |      | 4530 | 40°8 |
| Charters Towers | eP | 44    | 18°0              |    |       |      | 5755 | 51°8 |
| New Dehli       | 1P |       | 21°0              |    |       |      | 5800 | 52°2 |
| Warsak          | P  |       | 52                |    |       |      |      |      |
| Quetta          | eP | 45    | 16°5 <sup>D</sup> |    |       |      | 6680 | 60°1 |

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|               |     |                   |              |       |        |
|---------------|-----|-------------------|--------------|-------|--------|
| Brisbane      | iP  | 18 45 16.7        |              | 6680  | 60° 1  |
| Mould Bay     | eP  | 33.0              |              | 6970  | 62° 7  |
| Canberra      | eP  | 46 02             |              | 7455  | 67° 1  |
| Resolute      | eP  | 11.4 <sup>C</sup> |              | 7630  | 68° 7  |
| Toolangi      | iP  | 13.5 <sup>C</sup> |              | 7655  | 68° 9  |
| Uméa          | iP  | 38.3              |              |       |        |
| Nurmijaerwi   | eP  | 40                |              | 8180  | 73° 6  |
| Newport       | eP  | 55.0              |              | 8455  | 76° 1  |
| Nordman       | eP  | 55.0              |              | 8445  | 76° 0  |
| Uddeholm      | iP  | 47 04.4           |              |       |        |
| Blue M.       | eP  | 04.7              |              | 8645  | 77° 8  |
| Hungry Horse  | eP  | 05.4              |              | 8645  | 77° 8  |
| Butte         | eP  | 16.5              |              | 8830  | 80° 0  |
| Bozeman SSS   | eP  | 20.5              |              | 8980  | 80° 8  |
| Eureka        | eP  | 25.3              | e 18 48 56.4 | 9070  | 81° 6  |
| Frobisher     | eP  | 30.0              |              | 9210  | 82° 9  |
| Dugway        | eP  | 33.2              |              | 9245  | 83° 2  |
| Goldstone     | P   | 34                |              | 9270  | 83° 4  |
| Flaming Gorge | eP  | 41.2              |              | 9430  | 84° 9  |
| Uinta Basin   | eP  | 42.8              |              | 9455  | 85° 1  |
| Tonto Forest  | eP  | 55.6              |              | 9745  | 87° 7  |
| Albuquerque   | eP  | 48 08.5           |              | 10045 | 90° 4  |
| Arequipa      | PKP | 54 53.9           |              | 16590 | 149° 3 |

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R'gion de la Nouvelle Bretagne.

6° 8 S; 153° 6 E; h = 29 km; H = 18h. 59<sup>mn</sup> 08. 5<sup>s</sup>. (CGS)  
7° 5 S; 154° 1 E; H = 18h. 59<sup>mn</sup> 05. 5<sup>s</sup>. (URSS)

M. = 4.9 (College); 4.7 (Eureka\_Uinta Basin); 4.6 (CGS\_Tonto Forest  
Mt. Tsukuba); 4.3 (Blue M.).

|                 |     |                      |               |      |       |
|-----------------|-----|----------------------|---------------|------|-------|
| Wanliss Street  | eP  | 18 59 54             |               | 330  | 3° 0  |
| Rabalanakaia    | iP  | 54.0 <sup>D</sup>    |               | 320  | 2° 9  |
| Rabaul          | iP  | 54.0                 | iS 19 00 29.0 | 330  | 3° 0  |
| Keravat         | eP  | 54.5 <sup>D</sup>    | iS 25.5       | 320  | 2° 9  |
| Esa'Ala         | iP  | 19 00 07             | eS 52         |      |       |
| Honiara         | eP  | 48                   |               | 755  | 6° 8  |
| Port Moresby    | eP  | (53)                 | eS 02 30      | 770  | 6° 9  |
| Charters Towers | eP  | 02 40                | eS 05 25      | 1870 | 15° 0 |
| Luganville      | iP  | 51.7 <sup>(C)</sup>  |               | 1755 | 15° 8 |
| Port Vila       | eIP | 03 16.7              |               | 2000 | 18° 0 |
| Ouanaham        | iP  | 34.3 <sup>(D)</sup>  |               | 2130 | 19° 2 |
| Nouméa          | iP  | 39.8                 | iS 07 21      | 2200 | 19° 8 |
| Brisbane        | iP  | 45                   | eS 35         | 2280 | 20° 5 |
| Guam            | eP  | 04 03.0              | eS 08 04.0    | 2445 | 22° 0 |
| Darwin          | eP  | 14.0                 | e(S) 44.0     | 2570 | 23° 1 |
| Meekatharra     | iP  | 06 31.0 <sup>C</sup> |               |      |       |
| Bagulo          | eP  | 41.0                 | eS 12 45.0    | 4445 | 40° 0 |
| Mundaring       | iP  | 07 06.8 <sup>C</sup> |               | 4770 | 42° 9 |

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|              |                   |       |        |     |    |      |       |       |       |
|--------------|-------------------|-------|--------|-----|----|------|-------|-------|-------|
| Dodaira      | eP                | 19 07 | 19°6   |     |    |      | 4970  | 44°7  |       |
| Mt. Tsukuba  | eP                |       | 21°2   |     |    |      | 4955  | 44°6  |       |
| Matsushiro   | iP                |       | 27°1   |     |    |      |       |       |       |
| Shiraki      | eP                |       | 27°8   |     |    |      | 5070  | 45°6  |       |
| Séoul        | eP                | 08    | 03°8   |     |    |      | 5630  | 50°7  |       |
| Vladivostok  | eP                |       | 30°C   |     |    |      |       |       |       |
| Shillong     | iP                | 10    | 07°D   |     |    |      |       |       |       |
| Oulan Bator  | iP                |       | 09     |     |    |      |       |       |       |
| Yakoutsk     | iP                |       | 28     | S   | 19 | 19   | 45    |       |       |
| Bodajbo      | iP                |       | 31     |     |    |      |       |       |       |
| Chatra       | e                 |       | 32     |     |    |      |       |       |       |
| Tiksi        | iP                | 11    | 15     | eS  |    | 20   | 19    |       |       |
| New Dehli    | eP                |       | 24     |     |    |      | 9045  | 81°4  |       |
| Eyrd         | eP                |       | 32°9   |     |    |      | 9200  | 82°8  |       |
| South Pole   | eP                |       | 32°7   |     |    |      | 9245  | 83°2  |       |
| College      | eP                |       | 33°0   |     |    |      | 9270  | 83°4  |       |
| Bombay       | eP                |       | 34     |     |    |      |       |       |       |
| Talgar       | eP                |       | 42     |     |    |      |       |       |       |
| Frounze      | eP                |       | 51°5°C |     |    |      |       |       |       |
| Garm         | eP;               | 12    | 01     |     |    |      |       |       |       |
| Tachkent     | eP                |       | 07     |     |    |      |       |       |       |
| Blue M.      | eP                |       | 27°5   | e   | 12 | 37°1 | 10455 | 94°1  |       |
| Eureka       | iP                |       | 29°1   |     |    |      | 10510 | 94°6  |       |
| Mashad       | eP                |       | 40     |     |    |      | 10800 | 97°2  |       |
| Tonto Forest | eP                |       | 46°1   |     |    |      | 10890 | 98°0  |       |
| Uinta Basin  | eP                |       | 50°6   |     |    |      | 11055 | 99°5  |       |
| Bangui       | iPKP <sub>1</sub> | 18    | 12°0   | iPP |    | 21   | 09°5  | 15020 | 135°2 |
| La Paz       | PKP               |       | 25°6   |     |    |      | 14645 | 132°7 |       |
| Tamanfasset  | ePKP              |       | 46     | i   | 18 | 47   | 16145 | 145°4 |       |
| Rabat Z      | PKP               |       | 49     | ei  |    | 56   | 16390 | 145°4 |       |
| Ifrane       | PKP               |       | 51     | e   | 19 | 13   | 16320 | 146°9 |       |
| Rabat        | ePKP              |       | 52     |     |    |      | 16380 | 147°4 |       |
| Averroes     | ePKP              |       | 56     |     |    |      | 16489 | 148°3 |       |
| Kosan Boka   | PKP               | 19    | 07°6   |     |    |      | 17610 | 158°5 |       |

Inscrit à Wichita - Pasadena.

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Région frontière Iran-Irak.

$33^{\circ}7'N$ ;  $46^{\circ}7'E$ ; H =  $20^h.34^{mn}07^s$ . (BCIS)  
 $33^{\circ}8'N$ ;  $46^{\circ}9'E$ ; H =  $20^h.34^{mn}10^s$ . (CGS)  
 $33^{\circ}4'N$ ;  $46^{\circ}6'E$ ; H =  $20^h.34^{mn}08^s$ . (URSS)

M. =  $5^{\circ}6'$  (Godhavn);  $5^{\circ}1'$  (College Gilmore Creek Kajaani, Bangui);  
 $5^{\circ}0'$  (CGS Addis Ababa);  $4^{\circ}9'$  (New Dehli-Kevo-Nurmijaerwi);  
 $4^{\circ}8'$  (Station Nord).

|             |    |    |    |      |    |    |    |      |     |     |
|-------------|----|----|----|------|----|----|----|------|-----|-----|
| Kerman Shah | iP | 20 | 34 | 21°6 | iS | 20 | 34 | 29°2 | 80  | 0°7 |
| Téhéran     | eP |    | 35 | 18   |    |    |    |      | 480 | 4°3 |
| Tabriz      | eP |    | 20 |      | i  |    | 35 | 29°2 | 480 | 4°3 |

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|                  |      |          |      |          |      |      |
|------------------|------|----------|------|----------|------|------|
| Goris            | eP   | 20 35 39 |      |          | 645  | 5'8  |
| Chi raz          | eP   | 43'0     |      |          | 720  | 6'5  |
| Tbilisi          | eP   | 36 11    |      |          | 905  | 8'1  |
| Bakouriani       | iP   | 16'2     | 1S   | 20 37 56 | 935  | 8'4  |
| Ksara            | eP   | 20       | i(S) | 38 19    | 1000 | 9'0  |
| Kizyl Arvat      | eP   | 25       |      |          | 1050 | 9'5  |
| Jérusalem        | eP   | 37       | e(S) | 47       | 1095 | 9'9  |
| Vannovskaya      | eP   | 38       |      |          | 1130 | 10'2 |
| Mashad           | e(P) | 58       |      |          | 1200 | 10'8 |
| Helwan           | eP   | 37 29'0  |      |          | 1520 | 13'7 |
| Rhodes           | eP   | 52'6     |      |          | 1710 | 15'4 |
| Istanbul UTI     | iO   | 58       |      |          | 1770 | 15'9 |
| Quetta           | iP   | 38 06'5D |      |          | 1945 | 17'5 |
| Paraskevi        | eP   | 12'7     |      |          | 1925 | 17'3 |
| Douchambé        | eP   | 29       |      |          | 2050 | 18'5 |
| Kichinev         | iP   | 30D      |      |          | 2105 | 19'0 |
| Vamos            | eIP  | 31'2D    |      |          | 2070 | 18'6 |
| Athnes           | eIP  | 34'5C    |      |          | 2120 | 19'1 |
| Warsak           | iP   | 36       |      |          | 2280 | 20'5 |
| Tachkent         | eP   | 36D      |      |          | 2160 | 19'4 |
| Garm             | eP   | 39D      |      |          | 2190 | 19'7 |
| Iasy             | P    | 39(C)    |      |          | 2195 | 19'8 |
| Campulung        | P    | 46C      |      |          | 2250 | 19'2 |
| Sofia            | eP   | 47'1     | eS   | 42 44'2  | 2265 | 20'4 |
| Khorog           | eP   | 49       |      |          | 2280 | 20'5 |
| Oujgorod         | eP   | 39 20    |      |          | 2615 | 23'5 |
| Frounze          | eP   | 21       |      |          | 2630 | 23'7 |
| Sverdlovsk       | eP   | 32       |      |          | 2780 | 25'0 |
| Niedzi ca        | eP   | 34D      | e    | 40 27    | 2785 | 25'0 |
| Krakow           | eIP  | 39D      | ePP  | 18       | 2840 | 25'6 |
| Talgar           | eP   | 39       |      |          | 2860 | 25'7 |
| Messina          | iP   | 39'2     |      |          | 2840 | 25'5 |
| Addis Ababa      | iP   | 42'7     |      |          | 2855 | 25'7 |
| Dehra Dun        | iP   | 45D      | i    | 08       | 2970 | 26'7 |
| New Dehli        | iP   | 46'2     |      |          | 2945 | 26'5 |
| Bratislava       | eIP  | 46'6     |      |          | 2935 | 26'4 |
| Raciborz         | eP   | 48       |      |          | 2955 | 26'6 |
| Wien             | iP   | 51'5     |      |          | 2990 | 26'9 |
| Ljubljana        | eP   | 56       |      |          | 3045 | 27'4 |
| Trieste          | eP   | 40 04'5  | eL   | 46 34    | 3095 | 27'8 |
| Pruhonice        | eP   | 06       |      |          | 3190 | 28'7 |
| Kasperské Hory   | eIP  | 08       |      |          | 3220 | 29'0 |
| Semipalatinsk    | eP   | 15'2     |      |          | 3295 | 29'7 |
| Collm            | eP   | 18       |      |          | 3345 | 30'1 |
| Fürstenfeldbruck | eP   | 19       | ePP  | 40 23    | 3345 | 30'1 |
| Nurmijaerwi      | iP   | 21'0     |      |          | 3330 | 30'4 |
| Moxa             | eP   | 23       |      |          | 3405 | 30'7 |
| Erlangen         | eP   | 23'6D    |      |          | 3400 | 30'6 |
| Karlskrona       | iP   | 26'2     |      |          | 3445 | 31'0 |
| Monaco           | eP   | 36'2     | e    | 40'3     | 3555 | 32'0 |
| Uppsala          | iP   | 37'4C    |      |          | 3600 | 32'5 |

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|                   |     |       |                   |     |            |      |      |
|-------------------|-----|-------|-------------------|-----|------------|------|------|
| Isola             | iP  | 20 40 | 39·2              |     |            | 3590 | 32·3 |
| Kajaani           | iP  |       | 39·4              |     |            | 3620 | 32·6 |
| Lanslevillard     | eiP |       | 40·1              | ei  | 20 40 45·8 | 3610 | 32·5 |
| St. Paul en Foret | eP  |       | 40·4              |     |            | 3610 | 32·5 |
| La Mourre         | eP  |       | 41·3              |     |            | 3625 | 32·6 |
| Roselend          | eiP |       | 41·8              | ei  | 46·7       | 3640 | 32·8 |
| Monteynard        | eiP |       | 45·3              |     |            | 3705 | 33·3 |
| Göteborg          | iP  |       | 46·9              |     |            | 3725 | 33·5 |
| Vouglans          | eiP |       | 49·2              | ei  | 58·7       | 3725 | 33·5 |
| Oulu              | iP  |       | 50·4              |     |            | 3760 | 33·9 |
| Sétif             | iP  |       | 52·5              |     |            | 3750 | 33·8 |
| Uddeholm          | iP  |       | 53·0 <sup>C</sup> |     |            | 3790 | 34·1 |
| Uméa              | iP  |       | 54·7              |     |            | 3810 | 34·3 |
| Les Buteaux       | eP  |       | 58·7              |     |            | 3860 | 34·7 |
| Abatity           | eP  |       | 59                |     |            | 3865 | 34·8 |
| Sommée Lormes     | eP  |       | 59·8              |     |            | 3870 | 34·9 |
| St. Saulge        | eP  | 41    | 01·8              |     |            | 3900 | 35·1 |
| Clermont          | eP  |       | 02·5              | e   | 41 26      | 3910 | 35·2 |
| Garchy            | eP  |       | 04·6 <sup>C</sup> |     |            | 3930 | 35·4 |
| Kongsberg         | iP  |       | 05·3              |     |            | 3945 | 35·5 |
| Sodankylä         | iP  |       | 07·1              |     |            | 3970 | 35·7 |
| Lillehammer       | iP  |       | 07·2              |     |            | 3980 | 35·8 |
| Skalstugan        | iP  |       | 15·7              |     |            | 4080 | 36·7 |
| Kodaikanal        | iP  |       | 17 <sup>D</sup>   |     |            | 4070 | 36·6 |
| Kiruna            | iP  |       | 20·7              |     |            | 4155 | 37·4 |
| Tortosa           | eP  |       | 21                |     |            | 4125 | 37·1 |
| St. Sauveur       | eP  |       | 23·5              |     |            | 4190 | 37·7 |
| Kevo              | eP  |       | 24                |     |            | 4190 | 37·7 |
| Folinigre         | eP  |       | 25·6              |     |            | 4210 | 37·9 |
| Bergen            | iP  |       | 25·7              |     |            | 4300 | 37·9 |
| Tamarasset        | eP  |       | 27 <sup>D</sup>   | e   | 50         | 4190 | 37·7 |
| Gorron            | eP  |       | 27·6              |     |            | 4230 | 38·1 |
| Le Pertre         | eP  |       | 28·5              |     |            | 4245 | 38·2 |
| Bangui            | iP  |       | 37·2 <sup>D</sup> |     |            | 4370 | 39·3 |
| Shillong          | iP  |       | 41 <sup>C</sup>   |     |            | 4425 | 39·8 |
| Butare            | eiP |       | 42·4              |     |            | 4390 | 39·5 |
| Tolédo            | iP  |       | 50·2              |     |            | 4520 | 40·7 |
| Ifrane            | P   | 42    | 09                |     |            | 4755 | 42·8 |
| Rabat             | eP  |       | 18                |     |            | 4890 | 44·0 |
| Valentia          | iP  |       | 19·2              |     |            | 4925 | 44·3 |
| Averroes          | eiP |       | 23                | eiM | 43 19      | 4965 | 44·7 |
| Bodajbo           | iP  | 43    | 05 <sup>C</sup>   |     |            | 5600 | 50·4 |
| Broken Hill       | eP  |       | 13                |     |            | 5870 | 51·0 |
| Chileka           | eP  |       | 15                |     |            | 5800 | 50·4 |
| Station Nord      | iP  |       | 25·0              |     |            | 5890 | 53·0 |
| Karoi             | eP  |       | 26                |     |            | 5860 | 52·9 |
| Lamto             | P   |       | 41·7              |     |            | 6120 | 55·1 |
| Tiksi             | iP  |       | 46                |     |            | 6220 | 56·0 |
| Bulawayo          | eP  |       | 50                |     |            | 6255 | 56·3 |
| Yakou tsk         | iP  |       | 58 <sup>C</sup>   |     |            | 6410 | 57·7 |
| Gödhavn           | iP  | 44    | 31·8              |     |            | 6930 | 62·4 |
| Séoul             | eP  |       | 33·0              |     |            | 7050 | 63·4 |

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|               |     |       |       |       |       |
|---------------|-----|-------|-------|-------|-------|
| Shiraki       | eP  | 20 45 | 13°5  | 7645  | 68°8  |
| Resolute      | eP  |       | 13°9C | 7655  | 68°9  |
| Mould Bay     | iP  |       | 19°8C | 7770  | 69°9  |
| Frobisher     | eP  |       | 21°9C | 7810  | 70°3  |
| College       | iP  | 46    | 21°3  | 9000  | 81°0  |
| Gilmore Creek | eP  |       | 23°2  | 9000  | 81°0  |
| Palmer        | eP  |       | 39°4  | 9345  | 84°1  |
| South Pole    | PKP | 53    | 05°2  | 13730 | 123°6 |
| Tonto Forest  | PP  |       | 08°0  | 12145 | 109°6 |

inscrit à Budapest.

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Région frontière Iran-Irak.

33°7N; 46°7E; H = 21h.20<sup>mn</sup>39s. (BCIS)  
 33°7N; 46°8E; h=10km; H = 21h.20<sup>mn</sup>38.5s. (CGS)  
 33°5N; 46°7E; H = 21h.29<sup>mn</sup>40s. (URSS)

M. = 5°5 (Godhavn); 5°1 (Kajaani-Prétoria-Gilmore Creek);  
 5°0 (CGS-Palmer); 4°9 (College-Nurmijaerwi-Bangui);  
 4°8 (Station Nord); 4°6 (Addis Ababa); 34°5 (URSS).

|               |       |       |                   |      |            |      |      |
|---------------|-------|-------|-------------------|------|------------|------|------|
| Kermanshah    | eP    | 21 20 | 52°7              | IS   | 21 21 00°7 | 80   | 0°7  |
| Tabriz        | iP    |       | 21 50°2           |      |            | 480  | 4°3  |
| Téhéran       | eP    |       | 51                |      |            | 480  | 4°3  |
| Goris         | eP    | 22    | 09                |      |            | 645  | 5°8  |
| Chiraz        | eP    | ( 15) |                   |      |            | 720  | 6°5  |
| Bakouriani    | eP    |       | 43°8              | eS   | 24 23      | 935  | 8°3  |
| Ksara         | eP    |       | 54                | i(S) | 53         | 1000 | 9°0  |
| Vannov'skaya  | eP    | 23    | 04                |      |            | 1130 | 10°2 |
| Kizyl-Arvat   | e(P)  |       | 05                | IS   | 48         | 1050 | 9°5  |
| Jérusalem     | eP    |       | 1(0)              |      |            | 1095 | 9°9  |
| Mashad        | ei(P) |       | 35°5              |      |            | 1200 | 10°8 |
| Helwan        | eP    |       | 57                | M    | 30°5-      | 1520 | 13°7 |
| Istanbul Kand | e(P)  | 24    | (09)              |      |            | 1755 | 15°8 |
| Rhodes        | eP    |       | 24°3              |      |            | 1710 | 15°4 |
| Istanbul UTI  | eP    |       | 29                |      |            | 1770 | 15°9 |
| Paraskevi     | eP    |       | 44°3              |      |            | 1925 | 17°3 |
| Quetta        | eP    |       | 46°6 <sup>D</sup> |      |            | 1945 | 17°5 |
| Kichinev      | iP    | 25    | 02                |      |            | 2105 | 19°0 |
| Vamos         | eP    |       | 04 5              |      |            | 2070 | 18°6 |
| Athènes       | eP    |       | 06°5              |      |            | 2120 | 19°1 |
| Tachkent      | eP    |       | 07                |      |            | 2160 | 19°4 |
| Garm          | eP    |       | 10                |      |            | 2190 | 19°7 |
| Iasy          | P     |       | 11 <sup>D</sup>   |      |            | 2195 | 19°8 |
| Warsak        | eP    |       | 17°0              |      |            | 2280 | 20°5 |
| Campulung     | P     |       | 18 <sup>D</sup>   |      |            | 2250 | 20°3 |
| Sofia         | eP    |       | 18°9              | eS   | 29 15°4    | 2265 | 20°4 |
| Khorog        | eP    |       | 21                |      |            | 2280 | 20°5 |



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|                  |     |       |                   |     |          |      |      |
|------------------|-----|-------|-------------------|-----|----------|------|------|
| Valsamata        | eP  | 21 25 | 30·9              |     |          |      |      |
| Oujgorod         | eP  |       | 49                |     |          | 2615 | 23'5 |
| Frounze          | eP  |       | 53                |     |          | 2630 | 23'7 |
| Sverdlovsk       | eP  | 26    | 04                |     |          | 2780 | 25'0 |
| Budapest         | eP  |       | 05                |     |          | 2780 | 25'0 |
| Niedzica         | eP  |       | 06                | e   | 21 27 05 | 2770 | 24'9 |
| Krakow           | eIP |       | 10 <sup>D</sup>   |     |          | 2840 | 25'6 |
| Talgar           | eP  |       | 10                |     |          | 2860 | 25'7 |
| Messina          | iP  |       | 13·2              | i   | 26 16·7  | 2840 | 25'5 |
| Addis Ababa      | iP  |       | 14·5              |     |          | 2855 | 25'7 |
| New Dehli        | eP  |       | 18 <sup>C</sup>   |     |          | 2945 | 26'5 |
| Bratislava       | eIP |       | 18·1              | ei  | 40·6     | 2935 | 26'4 |
| Dehra Dun        | iP  |       | 20 <sup>C</sup>   |     |          | 2970 | 26'7 |
| Wien             | eP  |       | 22                |     |          | 2990 | 26'9 |
| Raciborz         | eP  |       | 27                |     |          | 2995 | 26'6 |
| Pruhonice        | eP  |       | 39                |     |          | 3190 | 28'7 |
| Kasperské Hory   | eIP |       | 40                |     |          | 3220 | 29'0 |
| Semipalatinsk    | eP  |       | 46·7              |     |          | 3296 | 29'7 |
| Collm            | eP  |       | 50                |     |          | 3345 | 30'1 |
| Fürstenfeldbruck | eP  |       | 51                | ePP | 55       | 3345 | 30'1 |
| Nurmijaerwi      | iP  |       | 52·9              |     |          | 3380 | 30'4 |
| Erlangen         | eP  |       | 55 <sup>D</sup>   |     |          | 3400 | 30'6 |
| Karlskrona       | eP  | 27    | 02                |     |          | 3445 | 31'0 |
| Uppsala          | iP  |       | 08·4              |     |          | 3600 | 32'4 |
| Kajaani          | iP  |       | 10·5              |     |          | 3620 | 32'6 |
| Isola            | iP  |       | 10·8              |     |          | 3590 | 32'3 |
| St.Paulen Forêt  | eP  |       | 11·0              |     |          | 3610 | 32'5 |
| La Mourre        | eP  |       | 12·3              |     |          | 3625 | 32'6 |
| Lanslevillard    | eIP |       | 12·5              | ei  | 27 16·9  | 3610 | 32'5 |
| Lorgues          | eP  |       | 13·5              |     |          |      |      |
| Roselend         | eIP |       | 13·8              | ei  | 18·2     | 3640 | 32'8 |
| Monteynard       | eP  |       | 16·5              |     |          | 3705 | 33'3 |
| Göteborg         | iP  |       | 17·2              |     |          | 3725 | 33'5 |
| Oulu             | iP  |       | 21·9              |     |          | 3760 | 33'9 |
| Uddeholm         | iP  |       | 24·4 <sup>C</sup> |     |          | 3790 | 34'1 |
| Uméa             | iP  |       | 26·2              |     |          | 3810 | 34'3 |
| Apatity          | iP  |       | 30 <sup>D</sup>   |     |          | 3865 | 34'8 |
| Les Buteaux      | eP  |       | 30·1              |     |          | 3860 | 34'7 |
| Sommée Lormes    | eP  |       | 30·9              |     |          | 3870 | 34'9 |
| St. Saulge       | eP  |       | 33·2              |     |          | 3900 | 35'1 |
| Gar chy          | iP  |       | 36·2 <sup>C</sup> |     |          | 3930 | 35'4 |
| Kongsberg        | iP  |       | 36·9              |     |          | 3955 | 35'5 |
| Sodankylä        | iP  |       | 38·1              |     |          | 3970 | 35'7 |
| Lillehammer      | iP  |       | 38·4              |     |          | 3980 | 35'8 |
| Clermont         | eP  |       | 39                | e   | 51       | 3910 | 35'4 |
| Toulx Ste Croix  | eP  |       | 40·8              |     |          | 3985 | 35'9 |
| Skalstugan       | iP  |       | 46·4              |     |          | 4080 | 36'7 |
| Kiruna           | iP  |       | 52·3              |     |          | 4155 | 37'4 |
| Kevo             | eP  |       | 55                |     |          | 4190 | 37'7 |
| St. Sauveur      | eP  |       | 55·0              |     |          | 4190 | 37'7 |
| Folinigere       | eP  |       | 56·8              |     |          | 4210 | 37'9 |
| Bergen           | iP  |       | 56·9              |     |          | 4200 | 37'8 |
| Taman fasset     | iP  |       | 58                | e   | 28 21    | 4190 | 37'7 |
| Goøron           | eP  |       | 59·2              |     |          | 4230 | 38'2 |

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|               |      |                   |    |            |  |       |       |
|---------------|------|-------------------|----|------------|--|-------|-------|
| Le Pertre     | eP   | 21 27 59.8        |    |            |  | 4245  | 38.2  |
| Banguï        | iP   | 28 09.4           | 1S | 21 34 05.4 |  | 4370  | 39.3  |
| Shillong      | iP   | 13 <sup>C</sup>   |    |            |  | 4425  | 39.8  |
| Butare        | iP   | 14.1              |    |            |  | 4390  | 39.5  |
| Toledo        | iP   | 22                |    |            |  | 4520  | 40.7  |
| Ifrane        | P    | 40                |    |            |  | 4755  | 42.8  |
| Bodajbo       | eP   | 29 36             |    |            |  | 5600  | 50.4  |
| Broken Hill   | eP   | 44                |    |            |  | 5670  | 51.0  |
| Chileka       | eP   | 47                |    |            |  | 5600  | 50.4  |
| Karoi         | eP   | 55                |    |            |  | 5880  | 52.9  |
| Station Nord  | iP   | 56.6              |    |            |  | 5890  | 53.0  |
| Lamto         | P    | 30 13.2           |    |            |  | 6120  | 55.1  |
| Tiksi         | iP   | 17                |    |            |  | 6220  | 56.0  |
| Bulawayo      | eP   | 21                |    |            |  | 6255  | 56.3  |
| Yakou tsk     | iP   | 29 <sup>D</sup>   |    |            |  | 6410  | 57.7  |
| Prétoria      | iP   | 31 00.7           |    |            |  | 6855  | 61.7  |
| Godhavn       | iP   | 03.1              |    |            |  | 6930  | 62.4  |
| Shiraki       | eP   | 44.9              |    |            |  | 7645  | 68.8  |
| Resolute      | eP   | 45.3 <sup>C</sup> |    |            |  | 8655  | 68.9  |
| Mould Bay     | eP   | 51.0              |    |            |  | 7770  | 69.9  |
| Frobisher     | eP   | 53.2              |    |            |  | 7810  | 70.3  |
| College       | iP   | 32 54.8           |    |            |  | 9000  | 81.0  |
| Gilmore Creek | eP   | 54.9              |    |            |  | 9000  | 81.0  |
| Palmer        | eP   | 33 11.2           |    |            |  | 9345  | 84.1  |
| South Pole    | ePKP | 39 36.9           |    |            |  | 13730 | 123.6 |
| Tonto Forest  | PP   | 39.5              |    |            |  | 12145 | 109.6 |

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Sicile.

Réplique : H = 21h.36<sup>mn</sup>(20)S.; M. = 3.60 (Roma)

|                   |     |            |   |            |
|-------------------|-----|------------|---|------------|
| Messina           | e   | 21 39 15.2 | e | 21 39 40.2 |
| Messina ING       | e   | (19)       |   |            |
| Roma              | eSn | 40 03      | e | 40 53      |
| La Mourre         | eP  | 20.2       |   |            |
| St. Paul en Foret | eP  | 21.5       |   |            |
| Lorgues           | eP  | 22.9       |   |            |

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Iles Loyauté

21°1/4<sup>S</sup>; 169°1/4<sup>E</sup>; H = 23h.09<sup>mn</sup>27s.; M. = 3.5 (Nouméa)

|           |    |                         |    |            |
|-----------|----|-------------------------|----|------------|
| Ouanaham  | iP | 23 09 48.5 <sup>D</sup> | 1S | 23 10 01.5 |
| Nouméa    | iP | 10 09.0                 | 1S | 41         |
| Port Vila | iP | 23.3 <sup>C</sup>       | 1S | 11 05      |

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Alaska.

70° 3'N; 144° 4'W; h = 9KM; H = 23<sup>h</sup>.44<sup>mn</sup>29.7s. (CGS)  
 70° 6'N; 144° 4'W; H = 23<sup>h</sup>.44<sup>mn</sup>34s. (URSS)

M. = 6.5(Coppermine); 5.8(College Mould Bay); 5.6(Caracas); 5.0(Edmonton-  
 Palisades); 4.9(Kajaani); 4.7(CGS); 4.6(Eureka); 4.5(Blue M.);  
 4.3-4.7(Berkeley); 4.3(Uinta Basin); Dugway; 4.2(Albuquerque);  
 4.1(Wichita M.); 4.0(Tonto Forest); 3.8(Golden)

|                |    |                         |     |            |      |      |
|----------------|----|-------------------------|-----|------------|------|------|
| Barrow         | 1P | 23 45 35.0 <sup>D</sup> | 1S  | 23 46 02.8 | 470  | 4.2  |
| Pedro Dome     | 1P | 52.8                    |     |            | 600  | 5.4  |
| Gilmore Creek  | eP | 53.1                    |     |            | 610  | 5.5  |
| College        | 1P | 54.7                    | eS  | 47 04.0    | 620  | 5.6  |
| Tanana         | 1P | 58.8                    |     |            | 645  | 5.8  |
| Black Rapids   | 1P | 46 13.1                 |     |            | 770  | 6.9  |
| Mts SheepCreek | eP | 40.0                    |     |            | 955  | 8.6  |
| Mould Bay      | eP | 41.0                    | i   | 48 20.0    | 1030 | 9.3  |
| Palmer         | eP | 42.5                    |     |            | 1000 | 9.0  |
| Coppermine     | 1P | 47 00.6 <sup>C</sup>    |     |            | 1190 | 10.7 |
| Sparrevohn     | 1P | 00.7                    |     |            | 1200 | 10.8 |
| Big Mountain   | eP | 22.0                    |     |            | 1320 | 11.9 |
| Resolute       | eP | 57.5                    | i   | 50 35.0    | 1680 | 15.1 |
| Alert          | eP | 49 06.0                 |     |            | 2230 | 20.1 |
| Edmonton       | eP | 26.0                    |     |            | 2455 | 22.1 |
| Adak           | eP | 49.5                    |     |            | 2630 | 23.7 |
| Nordman        | eP | 50 00.0                 |     |            | 2820 | 25.4 |
| Newport        | eP | 02.0                    |     |            | 2855 | 25.7 |
| Station Nord   | eP | 04.0                    |     |            | 2870 | 25.8 |
| Tiksi          | P  | 04 <sup>D</sup>         |     |            | 2895 | 26.1 |
| Hungry Horse   | eP | 07.9                    |     |            | 2930 | 26.4 |
| Frobisher      | eP | 23.0                    |     |            | 3155 | 28.4 |
| Magadan        | eP | 23                      |     |            | 3110 | 28.0 |
| Butte          | eP | 30.0                    | e   | 55.2       | 3210 | 28.9 |
| Blue M.        | eP | 30.3                    |     |            | 3210 | 28.9 |
| Bozeman SSS    | eP | 35.6                    | eS  | 55 44.0    | 3280 | 29.5 |
| Mineral        | eP | 51 01.2 <sup>D</sup>    |     |            | 3585 | 32.3 |
| Yakoutsk       | 1P | 06                      |     |            | 3640 | 32.6 |
| Oroville       | eP | 07.0                    |     |            | 3680 | 33.1 |
| Dugway         | eP | 18.9                    | e   | 51 24.2    | 3810 | 34.3 |
| Eureka         | 1P | 19.0                    |     |            | 3810 | 34.3 |
| Flaming Gorge  | eP | 19.5                    |     |            | 3830 | 34.5 |
| Jamestown      | eP | 23.5 <sup>D</sup>       | e   | 32.8       | 3870 | 34.8 |
| Uinta Basin    | eP | 24.4                    | ePP | 52 38.7    | 3890 | 35.0 |
| Berkeley       | eP | 28.0                    | e   | 58 02      | 3840 | 34.5 |
| Mt. Hamilton   | eP | 28.1                    |     |            | 3910 | 35.2 |
| Golden         | eP | 38.4                    | eS  | 58 06.0    | 4080 | 36.7 |
| Priest         | eP | 39.3 <sup>D</sup>       |     |            | 4055 | 36.5 |
| Goldstone      | P  | 55                      |     |            | 4230 | 38.1 |

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|                     |      |       |                   |     |           |       |       |
|---------------------|------|-------|-------------------|-----|-----------|-------|-------|
| Manhattan           | eP   | 23 52 | 09:0              |     |           | 4410  | 39:7  |
| Tonto Forest        | eP   |       | 10:5              |     |           | 4480  | 40:3  |
| Bodajbo             | iP   |       | 11 <sup>D</sup>   |     |           | 4515  | 40:6  |
| Kevo                | eP   |       | 12:0              | e   | 23 5812:0 | 4455  | 40:1  |
| Albuquerque         | eP   |       | 14:5              | e   | 52 21:0   | 4545  | 40:9  |
| Brébeuf             | iP   |       | 18:6 <sup>D</sup> |     |           | 4625  | 41:6  |
| Tucson              | eP   |       | 26:0              |     |           | 4700  | 42:3  |
| Sodankylä           | eP   |       | 26                |     |           | 4710  | 42:4  |
| Wichita M.          | eP   |       | 34:1              | eS  | 59 10     | 4810  | 43:3  |
| Oulu                | eP   |       | 46                |     |           | 4970  | 44:7  |
| Weston              | iP   |       | 46:5              |     |           | 5020  | 45:2  |
| Palisades           | iP   |       | 49:6              |     |           | 5055  | 45:5  |
| Umeå                | iP   |       | 52:9              |     |           | 5080  | 45:7  |
| Kajaani             | iP   |       | 53:1              |     |           | 5090  | 45:8  |
| Washington Sci.Cen. | eP   |       | 54:2              |     |           | 5130  | 46:2  |
| Oak Ridge           | iP   |       | 59:1              |     |           | 5180  | 46:6  |
| Lillehammer         | eP   | 53    | 09:0              |     |           | 5310  | 47:8  |
| Uddeholm            | eP   |       | 17                |     |           | 5440  | 49:2  |
| Nurmijaervi         | iP   |       | 19:8              |     |           | 5470  | 49:2  |
| Sverdlovsk          | eP   |       | 40                |     |           | 5770  | 51:9  |
| Semipalatinsk       | P    | 54    | 05 <sup>C</sup>   |     |           | 6150  | 55:4  |
| Collm               | eP   |       | 20:0              | e   | 54 33:0   | 6400  | 57:6  |
| Moxa                | eP   |       | 24                |     |           | 6455  | 58:1  |
| Pruhonice           | eP   |       | 34                |     |           | 6555  | 59:0  |
| Niedzica            | eP   |       | 37:8              | e   | 55 58:8   | 6675  | 60:1  |
| Kasperské Hory      | eiP  |       | 39:5              |     |           | 6645  | 59:8  |
| Champ du Feu        | eiP  |       | 39:6              |     |           | 6650  | 59:8  |
| Garchy              | (e)P |       | 40:6              |     |           | 6705  | 60:4  |
| Haudompré           | eP   |       | 41:9              |     |           | 6680  | 60:1  |
| Sommée Lormes       | eP   |       | 41:1              |     |           | 6720  | 60:5  |
| St. Saulge          | eP   |       | 42:2              |     |           | 6730  | 60:6  |
| Les Buteaux         | eP   |       | 45:0              |     |           | 6755  | 60:8  |
| Toulx Ste Croix     | eP   |       | 46:1              |     |           | 6800  | 61:2  |
| Vouglans            | eP   |       | 50                | e   | 54 51     | 6845  | 61:6  |
| Roselend            | eP   |       | 55                | e   | 55 07     | 6935  | 62:4  |
| Lanslevillard       | eP   | 55    | 00                | e   | 18        | 6985  | 62:9  |
| Isola               | eP   |       | 05:6              |     |           | 7100  | 63:9  |
| La Palma            | eP   |       | 13:5              |     |           | 7255  | 65:3  |
| Toledo              | eP   |       | 21:1              | LQ  | 24 13 50  | 7380  | 66:4  |
| Garm                | eP   |       | 22                |     |           | 7570  | 68:1  |
| Istanbul Kand       | eP   |       | (34)              |     |           | 7645  | 68:8  |
| Caracas             | eP   | 56    | 17:3 <sup>C</sup> | ePS | 06 44     | 8430  | 75:9  |
| Quetta              | eP   |       | 26:5 <sup>C</sup> |     |           | 8590  | 77:3  |
| Tamanrasset         | iP   | 57    | 11 <sup>C</sup>   |     |           | 9410  | 84:7  |
| La Paz              | eP   | 58    | 24:4              |     |           | 11210 | 100:9 |

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Région de la Nouvelle Bretagne. H = 00<sup>h</sup>.20<sup>mn</sup>20<sup>s</sup>. (Keravat)

|                |    |                         |      |            |
|----------------|----|-------------------------|------|------------|
| Keravat        | 1P | 00 21 09.5 <sup>D</sup> | 1(S) | 00 22 01.5 |
| Rabalanakala   | 1P | 12 <sup>D</sup>         |      |            |
| Rabaul         | 1P | 12 <sup>D</sup>         |      |            |
| Wanliss Street | 1P | 12.5 <sup>D</sup>       |      |            |
| Esa'Ala        | 1P | 18.9                    | 1S   | 03.2       |
| Port Moresby   | eP | 23                      | eS   | 08         |

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Région frontière Birmanie-Inde.

26°1N; 95°8E; h = 7km; H = 03<sup>h</sup>.22<sup>mn</sup>34<sup>s</sup>. (BCIS)  
 26°0N; 95°5E; h = 103km; H = 03<sup>h</sup>.22<sup>mn</sup>43<sup>s</sup>. (CGS)  
 25°2N; 95°9E; H = 03<sup>h</sup>.22<sup>mn</sup>33<sup>s</sup>. (URSS)

M. = 5.2(Bangui); 5.1(Palmer); 5.0(CGS-Nurmijaerwi-College);  
 4.8(Gilmore Creek); 4.6(New Delhi)

|                |      |                      |    |            |           |
|----------------|------|----------------------|----|------------|-----------|
| Shillong       | 1P   | 03 23 37.8           |    | 400        | 3'6       |
| Chatra         | 1P   | 24 31.3              | S  | 03 25 57.7 | 370 7'8   |
| Bokaro         | i    | 53                   | 1  | 26 32      | 1045 9'4  |
| Dehra Dun      | eP   | 26 20.6              | 1S | 29 11.3    | 1805 16'2 |
| New Delhi      | 1P   | 30.2                 | 1S | 23         | 1860 16'7 |
| Madras         | e    | 27 08                |    |            | 2185 19'7 |
| Poona          | eP   | 29                   | e  | 31 26      | 2410 21'7 |
| Kodaikanal     | 1P   | 48                   |    |            | 2610 23'5 |
| Bombay         | e    | 53                   |    |            | 2495 22'4 |
| Garm           | eP   | 28 02                |    |            | 2775 25'0 |
| Yakoutsk       | eP   | 30 33                |    |            | 4715 42'4 |
| Tiksi          | eP   | 31 25                |    |            | 5460 49'1 |
| Ksara          | eP   | 49                   |    |            | 5765 51'9 |
| Jérusalem      | 1P   | 53 <sup>D</sup>      | i  | 32 16.5    | 5865 52'8 |
| Meekatharra    | 1P   | 32 20.9 <sup>C</sup> |    |            | 6310 56'8 |
| Kajaani        | 1P   | 25.3                 | i  | 33 13.7    | 6365 57'3 |
| Sodankylä      | eP   | 31                   |    |            | 6465 58'2 |
| Oulu           | eP   | 31                   |    |            | 6465 58'2 |
| Nurmijaerwi    | i    | 33.1                 | e  | 32 56      | 6490 58'4 |
| Oujgorod       | eP   | 44                   |    |            | 6690 60'2 |
| Kevo           | e(P) | 46                   |    |            | 6500 58'5 |
| Uméa           | 1P   | 47.1 <sup>C</sup>    |    |            | 6730 60'6 |
| Mundaring      | 1P   | 49.1                 |    |            | 6765 60.3 |
| Niedzica       | eP   | 53.4                 |    |            | 6825 61'4 |
| Uppsala        | 1P   | 58 <sup>C</sup>      | i  | 33 19.5    | 6880 61'9 |
| Kälskrona      | 1P   | 33 05.8              |    |            | 7040 63'4 |
| Uddeholm       | 1P   | 09.3 <sup>C</sup>    |    |            | 7100 63'9 |
| Pruhonicé      | eP   | 18                   | e  | 42         | 7225 65'0 |
| Kasperské Hory | e1P  | 22                   |    |            | 7315 65'8 |

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|                    |     |                   |        |            |       |       |
|--------------------|-----|-------------------|--------|------------|-------|-------|
| Charters Towers    | iP  | 03 33 31          |        |            | 7465  | 67'2  |
| Butare             | iP  | 48°7              | 1      | 03 34 13°1 | 7765  | 69'9  |
| Moxa               | e   | 52°5              |        |            | 7415  | 66'7  |
| Barrow             | eP  | 54°8              |        |            | 7875  | 70'9  |
| Roselend           | eP  | 55                | e(PP)  | 21         | 7920  | 71'3  |
| Lanslevillard      | eiP | 58°4              |        |            | 7915  | 71'2  |
| Vouglans           | eiP | 58°9              | ei(PP) | 22°8       | 7965  | 71'7  |
| Sommée Lormes      | eP  | 34 03°3           |        |            | 8065  | 72'6  |
| Les Buteaux        | eP  | 05°5              |        |            | 8065  | 72'6  |
| St. Saulge         | eP  | 05°3              |        |            | 8090  | 72'8  |
| Garchy             | iP  | 06°7 <sup>D</sup> |        |            | 8120  | 73'1  |
| Adélaïde           | iP  | 07°7              |        |            | 8120  | 73'1  |
| Chileka            | eP  | 08                | esp    | 35         | 8035  | 72'3  |
| Toulx Ste Croix    | eiP | 12°3              |        |            | 8220  | 74'0  |
| Mould Bay          | eP  | 22                |        |            | 8395  | 75'6  |
| Ballon de Servance | ei  | 23°9              |        |            | 7835  | 70'5  |
| Champ du Feu       | ei  | 24°3              |        |            | 7785  | 70'0  |
| Sparrevohn         | iP  | 25°3              |        |            | 8430  | 75'9  |
| Haudompré          | ei  | 25°4              |        |            | 7580  | 70'7  |
| Bangui             | iP  | 26 <sup>D</sup>   |        |            | 8520  | 76'7  |
| Broken Hill        | eP  | 28                | e(sP)  | 54         | 8545  | 76'9  |
| Karoi              | eP  | 29                | e(sP)  | 56         | 8580  | 77'2  |
| Big Mountain       | eP  | 30                |        |            | 8545  | 76'9  |
| Gilmore Creek      | eP  | 30°2              |        |            | 8555  | 77'0  |
| College            | iP  | 30°4              |        |            | 8550  | 77'0  |
| Pedro Dome         | iP  | 30°8              |        |            | 8555  | 77'0  |
| Palmer             | eP  | 37°2              |        |            | 8700  | 78'3  |
| Black Rapids       | eP  | 38                |        |            | 8715  | 78'5  |
| Toolangi           | eP  | 39                |        |            | 8740  | 78'7  |
| Mts Sheep Creek    | eP  | 41                |        |            | 8765  | 78'9  |
| Canberra           | eP  | 42                |        |            | 8790  | 79'1  |
| Resolute           | eP  | 42                |        |            | 8800  | 79'2  |
| Bulawayo           | eP  | 44                |        |            | 8865  | 79'8  |
| Tamanrasset        | eP  | 49                |        |            | 8950  | 80'6  |
| Frobisher          | eP  | 35 34             |        |            | 9955  | 89'6  |
| Uinta Basin        | PKP | 41 07             |        |            | 12235 | 110'1 |
| Wichita M.         | PKP | 22°4              | ePP    | 42 36°4    | 13135 | 118'2 |
| Bogota             | PKP | 42 23°5           |        |            | 16445 | 148'0 |
| La Paz             | PKP | 39°2              |        |            | 18010 | 162'1 |

inscrit à Talgar.

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Région de la Nouvelle Bretagne.

H = 04<sup>h</sup>. 59<sup>mn</sup> 50<sup>s</sup>.; M. = 4.6(Rabauk)

|                |    |       |                   |    |       |      |
|----------------|----|-------|-------------------|----|-------|------|
| Keravat        | iP | 05 00 | 13°5 <sup>D</sup> | is | 05 00 | 30°5 |
| Wanliss Street | iP |       | 14 <sup>D</sup>   |    |       |      |

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|              |    |                        |    |                       |  |
|--------------|----|------------------------|----|-----------------------|--|
| Rabalanakaia | iP | 05 00 13 <sup>5D</sup> |    |                       |  |
| Rabaul       | iP | 15 <sup>5</sup>        | iS | 05 00 34 <sup>5</sup> |  |
| Port Moresby | eP | 01 27                  | eS | 02 38                 |  |

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Données insuffisantes

|              |    |                  |  |  |  |
|--------------|----|------------------|--|--|--|
| Kajaani      | eP | 05 10 09         |  |  |  |
| Nurmi jaerwi | eP | 21               |  |  |  |
| Sodankylä    | eP | 24               |  |  |  |
| Uméa         | iP | 37 <sup>8C</sup> |  |  |  |
| Uddeholm     | iP | 57 <sup>5</sup>  |  |  |  |

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Alaska

70°3'N; 144°4'W; h = 33<sup>km</sup>; H = 08h.30<sup>mn</sup>44.7<sup>s</sup>. (CGS)

M. = 3.6 (CGB - Blue M.)

|               |    |                       |    |                       |      |                 |
|---------------|----|-----------------------|----|-----------------------|------|-----------------|
| Barrow        | eP | 08 31 48 <sup>7</sup> | 1  | 08 32 30 <sup>1</sup> | 465  | 2 <sup>2</sup>  |
| Pedro Dome    | iP | 32 05 <sup>4</sup>    |    |                       | 610  | 5 <sup>5</sup>  |
| Gilmore Creek | eP | 06                    | eS | 33 08 <sup>8</sup>    | 610  | 5 <sup>5</sup>  |
| College       | eP | 07                    |    |                       | 620  | 5 <sup>6</sup>  |
| Tanana        | eP | 11 <sup>4</sup>       |    |                       | 645  | 5 <sup>8</sup>  |
| Black Rapids  | iP | 25 <sup>5</sup>       |    |                       | 765  | 6 <sup>9</sup>  |
| Mould Bay     | eP | 57                    | 1  | 34 33                 | 1020 | 9 <sup>2</sup>  |
| Edmonton      | eP | 35 40                 |    |                       | 2465 | 22 <sup>2</sup> |
| Blue M.       | eP | 36 43 <sup>9</sup>    |    |                       | 3210 | 26 <sup>9</sup> |

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Région de la Nouvelle Bretagne

H = 08h.57<sup>mn</sup>08<sup>s</sup>.; M. = 4.6 (Rabaul)

|                |     |                       |    |                       |  |
|----------------|-----|-----------------------|----|-----------------------|--|
| Keravat        | eIP | 08 57 37 <sup>5</sup> | iS | 08 57 58 <sup>5</sup> |  |
| Rabalanakaia   | iP  | 39 <sup>6</sup>       |    |                       |  |
| Rabaul         | iP  | 40                    | iS | 58 04                 |  |
| Wanliss Street | eP  | 40 <sup>D</sup>       |    |                       |  |
| Port Moresby   | eP  | 58 44                 | eS | 59 52                 |  |

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Nouvelles Hébrides (Ile Espiritu Santo)

15°2'S; 167°6'E; hH= 50<sup>km</sup>; H = 09h.06<sup>mn</sup>32<sup>s</sup>. (Nouméa)

|            |     |                       |    |                 |  |
|------------|-----|-----------------------|----|-----------------|--|
| Luganville | iP  | 09 06 51 <sup>2</sup> | iS | 09 07 04        |  |
| Port Vila  | eIP | 07 15 <sup>4</sup>    | iS | 46 <sup>5</sup> |  |
| Nouméa     | iP  | 08 13 <sup>C</sup>    | iS | 09 35           |  |

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Région des Iles Santa Cruz.

H = 09h.17<sup>mn</sup>54<sup>s</sup>. (Nouméa)

|            |     |                         |    |            |  |  |
|------------|-----|-------------------------|----|------------|--|--|
| Luganville | iP  | 09 19 12.4 <sup>C</sup> | iS | 09 20 12.5 |  |  |
| Port Vila  | eiP | 48.4                    |    |            |  |  |
| Nouméa     | eiP | 20 42                   |    |            |  |  |

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Au Sud de la Préfecture de Yamanashi (Japon)

35° 22'N; 138° 35'E; h = 20km; H = 09h.19<sup>mn</sup>19.4<sup>s</sup>. (M. = 3.6(JMA))

|            |    |            |    |            |     |     |
|------------|----|------------|----|------------|-----|-----|
| Funatsu    | iP | 09 19 25.5 | iS | 09 19 28.5 | 22  | 0.2 |
| Kofu       | iP | 26.9       | iS | 32.2       | 33  | 0.3 |
| Mishima    | eP | 27         | iS | 32.8       | 42  | 0.4 |
| Ajiro      | iP | 31.3       | iS | 39.1       | 59  | 0.5 |
| Omaezaki   | eP | 36         | iS | 48.3       | 91  | 0.8 |
| Matsushiro | iP | 41.9       | S  | 57         | 134 | 1.2 |
| Abuyama    | iP | 20 01.9    |    |            |     |     |

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Méditerranée, au sud-ouest de la Grèce.

36° 1/2'N; 21° 1/4'E; H = 10h.24<sup>mn</sup>12<sup>s</sup>.; M. = 3.8(Athènes)

|           |      |                 |      |            |     |     |
|-----------|------|-----------------|------|------------|-----|-----|
| Valsamata | ePn  | 10 24 45.3      | eiSn | 10 25 09.5 | 200 | 1.8 |
| Athènes   | eiPn | 54 <sup>D</sup> |      |            | 270 | 2.4 |

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Région de la Nouvelle Bretagne

H = 10h.48<sup>mn</sup>08<sup>s</sup>.; M. = 4.0(Rabaul)

|                |    |                         |    |            |  |  |
|----------------|----|-------------------------|----|------------|--|--|
| Keravat        | iP | 10 48 23.5 <sup>D</sup> | iS | 10 48 32.5 |  |  |
| Wanliss Street | iP | 26.2 <sup>D</sup>       |    |            |  |  |
| Rabaul         | iP | 26.5 <sup>D</sup>       | iS | 40         |  |  |
| Rabalanakala   | iP | 26.6 <sup>D</sup>       |    |            |  |  |

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Région de la Nouvelle Bretagne

H = 11h.07<sup>mn</sup>24<sup>s</sup>.; M. = 5.2(Rabaul)

|              |    |                 |    |          |  |  |
|--------------|----|-----------------|----|----------|--|--|
| Rabalanakala | eP | 11 08 01.5      |    |          |  |  |
| Rabaul       | iP | 02 <sup>D</sup> | iS | 11 08 31 |  |  |



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|                |    |          |    |          |  |
|----------------|----|----------|----|----------|--|
| Wanliss Street | 1P | 11 08 02 |    |          |  |
| Keravat        | 1D | 03°5     | 1S | 11 08 31 |  |
| Port Moresby   | eP | 09 22°5  | eS | 10 53    |  |

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Près de la côte Est de Hondo (Japon)

35°7'N; 140°0'E; h = 72km; H = 11h.45<sup>mm</sup>15<sup>s</sup>. (CGS)  
 36°4'N; 140°0'E; h = 146km; H = 11h.45<sup>mm</sup>25<sup>s</sup>. (URSS)  
 35°44'N; 140°09'E; h = 80km; H = 11h.45<sup>mm</sup>13.6<sup>s</sup>. (JMA)

M. = 5.0 (NurmiJaerwi); 4.7 (Shillong); 4.3 (CGS); 4.2 (Uinta Basin);  
 4.1 (Tonto Forest); 4.0 (Eureka); 3.9 (Blue M.).

|               |    |                      |    |            |      |      |
|---------------|----|----------------------|----|------------|------|------|
| Mt. Tsukuba   | 1P | 11 45 26.6           |    |            | 55   | 0°5  |
| Tokyo         | 1P | 27.5                 | 1S | 11 45 35.9 |      |      |
| Kiyosumi      | 1P | 28.5                 |    |            | 65   | 0°6  |
| Mito          | 1P | 29.9                 | 1S | 40.6       |      |      |
| Dodaira       | 1P | 31                   |    |            | 80   | 0°7  |
| Maebashi      | 1P | 34.2                 | 1S | 49.7       |      |      |
| Ajiro         | 1P | 35.9                 | 1S | 50         |      |      |
| Ko fu         | 1P | 37.8                 | 1S | 54         |      |      |
| Matsushiro    | 1P | 44                   | S  | 46 06      | 180  | 1°6  |
| Sendai        | e  | 56                   | eS | 29         |      |      |
| Gi fu         | eP | 59.1                 |    |            |      |      |
| Hikone        | eP | 46 05.5              | e  | 49.7       |      |      |
| Mizusawa      | eP | 09.1                 | e  | 59.3       |      |      |
| Abuyama       | 1P | 12.4                 |    |            |      |      |
| Oishiyama     | eP | 18.2                 | 1S | 47 07.1    | 465  | 4°2  |
| Wakaura W.    | eP | 20                   | eS | 08.1       | 465  | 4°2  |
| Shiraki       | eP | 41.7                 |    |            | 680  | 6°1  |
| Vladivostok   | eP | 47 35                |    |            |      |      |
| Yakoutsck     | eP | 50 50                |    |            |      |      |
| Bodajbo       | 1P | 51 00.5 <sup>C</sup> |    |            |      |      |
| Tiksi         | eP | 52 12                |    |            |      |      |
| Shillong      | 1P | 53 01.6              |    |            | 4690 | 42°2 |
| Semipalatinsk | P  | 22.8                 |    |            |      |      |
| Talgar        | 1P | 49 <sup>C</sup>      |    |            |      |      |
| Gilmore Creek | eP | 54 01.2              |    |            | 5655 | 50°9 |
| College       | eP | 10                   |    |            | 5645 | 50°8 |
| New Dehli     | 1P | 25 <sup>D</sup>      |    |            |      |      |
| Quetta        | eP | 55 17.4 <sup>D</sup> |    |            |      |      |
| Poona         | eP | 18                   |    |            |      |      |
| Resolute      | eP | 42                   |    |            | 7120 | 64°1 |
| Kevo          | 1P | 43                   |    |            |      |      |
| Sodankylä     | eP | 53                   |    |            | 7300 | 65°7 |
| Oulu          | 1P | 56 02.5              |    |            |      |      |
| Kajaani       | 1P | 02.7                 |    |            |      |      |
| Kiruna        | 1P | 02.9                 |    |            |      |      |
| Uréa          | 1P | 19.1                 |    |            |      |      |
| NurmiJaerwi   | 1P | 22.5                 |    |            | 7835 | 70°5 |

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|                |    |       |      |      |      |
|----------------|----|-------|------|------|------|
| Blue M.        | eP | 11 56 | 42°2 | 8190 | 73°7 |
| Lillehammer    | eP |       | 50   | 8335 | 75°0 |
| Eureka         | 1P | 57    | 05°8 | 8620 | 77°6 |
| Dugway         | eP |       | 13°5 | 8790 | 79°1 |
| Niedzica       | eP |       | 17   |      |      |
| Uinta Basin    | eP |       | 23°9 | 8990 | 80°9 |
| Pruhonice      | eP |       | 28   | 9110 | 82°0 |
| Kasperské Hory | P  |       | 34   | 9220 | 83°0 |
| Tonto Forest   | eP |       | 38°6 | 9300 | 83°7 |

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Mer Ionienne.

Vers 37°3/4N; 20°1/2E; H = 13h.23<sup>mm</sup>29S.; M. = 3°5(Athènes)

|           |      |       |                   |        |       |      |     |     |
|-----------|------|-------|-------------------|--------|-------|------|-----|-----|
| Valsamata | e1Pg | 13 23 | 37°3 <sup>C</sup> | e1Sg   | 13 24 | 43°2 | 45  | 0°4 |
| Athènes   | ePb  | 24    | 14°2              | e1(Sg) |       | 52°1 | 280 | 2°5 |

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Province de Catamarca (Argentine)

27°7S; 66°4W; h = 179km; H = 14h.32<sup>mm</sup>32S. (CGS)

M. = 4°9(Bangui); 4°5(La Paz); 4°3(Wichita M.); 4°2(CGS-Penas);  
4°0(Uinta Basin-Dugway); 3°9(Tonto Forest); 3°8(Golden-Blue M.)

|              |    |       |                   |      |       |      |       |      |
|--------------|----|-------|-------------------|------|-------|------|-------|------|
| Antofagasta  | 1P | 14 33 | 50°9 <sup>D</sup> | 1(S) | 14 34 | 51°1 |       |      |
| Peldehue     | eP | 34    | 01°8              | e(S) | 35    | 10   |       |      |
| Santiago     | eP |       | 05                |      |       |      |       |      |
| La Paz       | eP | 35    | 09°5              | eS   | 37    | 10°4 | 1255  | 11°3 |
| Penas        | 1P |       | 13°3              | eS   |       | 17°3 | 1290  | 11°6 |
| San Juan     | eP | 40    | 33                |      |       |      | 5065  | 45°6 |
| Byrd         | P  | 41    | 57°8              |      |       |      | 6300  | 56°7 |
| Lamto        | P  | 43    | 13°1              |      |       |      | 7565  | 68°1 |
| Wichita M.   | eP |       | 19°7              |      |       |      | 7690  | 69°2 |
| Tonto Forest | eP |       | 55°2              | epP  | 44    | 42°3 | 8320  | 74°9 |
| Golden       | eP | 44    | 02°7              |      |       |      | 8480  | 76°3 |
| Uinta Basin  | eP |       | 16°3              |      |       |      | 8745  | 78°7 |
| Dugway       | eP |       | 23°7              |      |       |      | 8910  | 80°2 |
| Eureka       | eP |       | 29°8              |      |       |      | 9035  | 81°3 |
| Blue M.      | eP |       | 52°3              |      |       |      | 9545  | 85°9 |
| Tamar asset  | 1P |       | 53 <sup>D</sup>   |      |       |      | 9510  | 85°6 |
| Bangui       | 1P | 45    | 02°3 <sup>D</sup> |      |       |      | 9729  | 87°5 |
| Edmonton     | eP |       | 13                |      |       |      | 10045 | 90°4 |

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 Iles aux Renais (Aléoutiennes)  
 52° 1N, 171° 3W h = 53km H = 16h08<sup>mn</sup>50° 1S (CGS)  
 51° 8N, 171° 0W H = 16h06<sup>mn</sup>44S (URSS)  
 M = 5.7 (Kajaani, Caracas), 5.5 (URSS, Roma, New.  
 port, Kevo, Nurmijaervi, Quetta), 5.4 (Uppsala,  
 Kiruna, Mt Tsukuba, Frobisher, Godhavn, Rabaul), 5.3  
 (San Juan, New Delhi), 5 1/4 - 5 3/4 (Pali-  
 Sades), 5.2 (CGS, Eureka, Bensberg), 5.1 (Bozemann  
 SSS, Shillong, Blue M), 5.0 - 5.4 (Berkeley),  
 5.0 (Dugway, Wichita M, Cumberland Pl), 4.9  
 (Uinta Basin, Tonto Forest), 4.5 (Longmire), 4.2  
 (College).

|                  |    |    |    |       |      |    |    |      |      |      |
|------------------|----|----|----|-------|------|----|----|------|------|------|
| Adak             | 1P | 16 | 07 | 40.5  |      |    |    |      | 365  | 3.3  |
| Big Mountain     | ep |    | 09 | 37    |      |    |    |      | 1290 | 11.6 |
| Kodiakak         | ep |    |    | 38    | e    | 16 | 09 | 50   | 1355 | 12.2 |
| Sparrevohn       | ep |    |    | 47    |      |    |    |      | 1380 | 12.4 |
| Palmer           | ep |    | 10 | 24    |      |    |    |      | 1.00 | 15.3 |
| Mts Sheep Creek  | ep |    |    | 35    |      |    |    |      | 1800 | 16.2 |
| Tana na          | ep |    |    | 43    |      |    |    |      | 1835 | 16.5 |
| College          | ep |    |    | 52    |      |    |    |      | 1955 | 17.6 |
| Gilmore Creek    | ep |    |    | 52.7  |      |    |    |      | 1965 | 17.7 |
| Black Rapids     | ep |    |    | 53    |      |    |    |      | 1955 | 17.6 |
| Pedro Dome       | ep |    |    | 53    |      |    |    |      | 1980 | 17.8 |
| Petropavlovsk    | ep |    | 11 | 02    |      |    |    |      | 2025 | 18.2 |
| Severo Kourilsk  | ep |    |    | 22.3  |      |    |    |      | 2255 | 20.3 |
| Barrow           | 1P |    |    | 24.6D |      |    |    |      | 2255 | 20.3 |
| Magadan          | P  |    |    | 45    | S    |    | 15 | 50   | 2475 | 22.3 |
| Yuzno Sakhalinsk | ep |    | 12 | 54    |      |    |    |      | 3315 | 29.9 |
| Coppermine       | ep |    | 13 | 02.6D |      |    |    |      | 3420 | 30.8 |
| Mould Bay        | ep |    |    | 05    | i    |    | 19 | 38   | 3485 | 31.2 |
| Tiksi            | 1P |    |    | 14D   |      |    |    |      | 3535 | 32.4 |
| Yakoutsk         | P  |    |    | 15D 5 |      |    |    |      | 3605 | 35.7 |
| Longmire         | 1P |    |    | 15.3  |      |    |    |      | 3585 | 32.1 |
| Corvallis        | ep |    |    | 16    |      |    |    |      | 3590 | 32.3 |
| Nordman          | 1P |    |    | 32 -  | e    |    | 13 | 44   | 3790 | 34.1 |
| Newport          | 1P |    |    | 32.5  |      |    |    |      | 3800 | 34.2 |
| Edmonton         | 1P |    |    | 34    |      |    |    |      | 3810 | 34.3 |
| Blue M.          | ep |    |    | 45.2  |      |    |    |      | 3980 | 35.8 |
| Mineral          | ep |    |    | 45.8  |      |    |    |      | 3980 | 35.7 |
| Hungry Horse     | ep |    |    | 47.9  | e    |    | 19 | 58.9 | 4000 | 36.0 |
| Croville         | 1P |    |    | 50.1  | i    |    |    | 55.9 | 4020 | 36.2 |
| Resolute         | ep |    |    | 55.6C |      |    |    |      | 4120 | 37.1 |
| Berkeley         | ep |    |    | 56.5C | (SP) |    | 14 | 10.2 | 4000 | 36.8 |
| Mt Tsukuba       | ep |    | 14 | 00.8  | e    |    | 16 | 18.1 | 4165 | 37.5 |
| Mt Hamilton      | ep |    |    | 01.3C | e    |    | 14 | 14   | 4165 | 37.5 |
| Butte            | ep |    |    | 04.9  | e    |    | 16 | 01.8 | 4220 | 38.0 |
| Jamestown        | ep |    |    | 05.0C | e    |    | 14 | 17   | 4205 | 37.8 |
| Dodaira          | ep |    |    | 06.9  |      |    |    |      | 4245 | 38.2 |
| Vladivostok      | ep |    |    | 07    |      |    |    |      | 4270 | 38.4 |
| Matsushiro       | P  |    |    | 08    | S    | 16 | 20 | 00   | 4280 | 38.5 |
| Kiyosumi         | ep |    |    | 09.6  |      |    |    |      | 4345 | 38.2 |
| Bozeman SSS      | ep |    |    | 10.8  | eS   |    |    | 00   | 4310 | 38.8 |

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|                   |    |    |    |                    |      |    |    |      |       |
|-------------------|----|----|----|--------------------|------|----|----|------|-------|
| Eureka            | iP | 16 | 14 | 18° 9              |      |    |    | 4400 | 386   |
| Bodajbo           | iP |    |    | 30                 |      |    |    | 4570 | 41° 1 |
| Dugway            | eP |    |    | 31                 |      |    |    | 4585 | 41° 1 |
| Abuyama           | iP |    |    | 31 <del>4</del>    |      |    |    | 4585 | 41° 3 |
| Salt Lake City    | eP |    |    | 34° 1              |      |    |    | 4600 | 41° 4 |
| Pasadena          | eP |    |    | 36                 | eSCP | 16 | 20 | 4635 | 41° 7 |
| Oishiyama         | eP |    |    | 37                 |      |    |    | 4655 | 41° 9 |
| Wakaura W.        | eP |    |    | 37° 2              |      |    |    | 4655 | 41° 9 |
| Uinta Basin       | eP |    |    | 47                 | eS   | 21 | 12 | 4780 | 43° 0 |
| Shiraki           | eP |    |    | 48° 6              |      |    |    | 4800 | 43° 2 |
| Séoul             | eP |    |    | 55° 1              |      |    |    | 4980 | 44° 8 |
| Kheis             | eP |    |    | 59                 |      |    |    | 4970 | 44° 7 |
| Glen Canyon       | eP |    |    | 59° 1              |      |    |    | 4880 | 43° 9 |
| Station Nord      | iP |    |    | 07° 9              |      |    |    | 5095 | 45° 8 |
| Tonto Forest      | eP |    |    | 08                 | eS   | 21 | 56 | 5100 | 45° 9 |
| Tucson            | eP |    |    | 21                 | e(S) | 22 | 16 | 5280 | 47° 5 |
| Irkoutsk          | eP | 15 |    | 30 <sup>C</sup>    |      |    |    | 5430 | 48° 9 |
| Kingsbay          | eP |    |    | 35                 |      |    |    | 5435 | 49° 2 |
| Frobisher         | eP |    |    | 38° 4 <sup>C</sup> |      |    |    | 5545 | 49° 9 |
| Godhavn           | iP |    |    | 45° 5 <sup>C</sup> |      |    |    | 5635 | 50° 7 |
| Manhattan         | eP |    |    | 51                 |      |    |    | 5745 | 51° 7 |
| Guam              | eP |    |    | 54                 |      |    |    | 5780 | 52° 0 |
| Wichita M.        | eP | 16 |    | 04° 8              | eS   | 23 | 36 | 5920 | 53° 3 |
| Tulsa             | eP |    |    | 10° 5              |      |    |    | 6020 | 54° 2 |
| Anpu              | iP |    |    | 30 <sup>C</sup>    | e    | 34 | 38 | 6300 | 56° 7 |
| Kevo              | iP |    |    | 35° 2              | ePP  | 18 | 40 | 6410 | 57° 7 |
| Apatity           | eP |    |    | 45                 |      |    |    | 6585 | 59° 2 |
| Kinna             | iP |    |    | 49° 6              |      |    |    | 6665 | 60° 0 |
| Sodankylae        | eP |    |    | 52                 |      |    |    | 6680 | 60° 1 |
| Bébeuf            | iP |    |    | 52° 2 <sup>D</sup> |      |    |    | 6655 | 59° 9 |
| Cumberland pl     | eP |    |    | 54° 6              |      |    |    | 6710 | 60° 4 |
| Oak Ridge         | eP |    |    | 59° 1              |      |    |    | 6765 | 60° 9 |
| Berlin            | iP | 17 |    | 03° 8              |      |    |    | 6855 | 61° 7 |
| Oulu              | iP |    |    | 06° 8              |      |    |    | 6935 | 62° 4 |
| Black Rapids      | iP |    |    | 07° 4              | S    | 25 | 38 | 6910 | 62° 2 |
| Kajaani           | iP |    |    | 12° 8 <sup>D</sup> |      |    |    | 7020 | 63° 2 |
| Palsades          | iP |    |    | 13                 | eS   |    | 41 | 7000 | 63° 0 |
| Weston            | iP |    |    | 14° 8              | eS   |    | 43 | 7035 | 63° 3 |
| Baguio            | eP |    |    | 15                 | e    | 26 | 10 | 7090 | 63° 8 |
| Sverdlovsk        | eP |    |    | 15                 | eS   | 25 | 46 | 7035 | 63° 4 |
| Hong Kong         | eP |    |    | 16 <sup>C</sup>    | eS   |    | 40 | 7035 | 63° 3 |
| Umeå              | iP |    |    | 18° 1              | eS   |    | 40 | 7120 | 64° 1 |
| Rabaul            | eP |    |    | 19 <sup>D</sup>    |      |    |    | 7120 | 64° 1 |
| Skalstugan        | eP |    |    | 22                 |      |    |    | 7120 | 64° 1 |
| Nat. Univ. Mexico | eP |    |    | 23                 | e    |    | 56 | 7110 | 64° 0 |
| Nurmijaervi       | iP |    |    | 37° 9              | eS   | 26 | 28 | 7445 | 67° 0 |
| Honiara           | eP |    |    | 38                 |      |    |    | 7345 | 66° 1 |
| Lillehammer       | eP |    |    | 40                 |      |    |    | 7465 | 67° 2 |
| Vista Hermosa     | iP |    |    | 41° 5              |      |    |    | 7465 | 67° 2 |
| Uppsala           | iP |    |    | 44° 6              |      |    |    | 7565 | 68° 1 |
| Talgar            | eP |    |    | 45                 |      |    |    | 7580 | 68° 1 |
| Davao             | eP |    |    | 47                 | IS   |    | 42 | 7565 | 68° 1 |

|                  |     |    |    |       |      |    |    |       |      |      |      |
|------------------|-----|----|----|-------|------|----|----|-------|------|------|------|
| Kongsberg        | iP  | 16 | 17 | 48.8  |      |    |    | 7620  | 68.6 |      |      |
| Frounze          | iP  |    |    | 55.5C |      |    |    | 7735  | 69.6 |      |      |
| Moskva           | eP  |    |    | 58    |      |    |    | 7765  | 69.9 |      |      |
| Port Moresby     | eP  |    | 18 | 03    | eS   | 16 | 27 | 16    | 7880 | 70.1 |      |
| Karl skrona      | iP  |    |    | 07.7  |      |    |    | 7.995 | 72.0 |      |      |
| Presa B. Juarez  | e   |    |    | 19.1  |      |    |    | 7615  | 68.6 |      |      |
| Shillo ng        | iP  |    |    | 22    |      |    |    | 8245  | 74.2 |      |      |
| Douchambé        | iP  |    |    | 30C   |      |    |    | 8410  | 75.7 |      |      |
| Khorog           | eP  |    |    | 31    |      |    |    | 8370  | 75.4 |      |      |
| Samarkand        | eP  |    |    | 31    |      |    |    | 8390  | 75.5 |      |      |
| Chatra           | iP  |    |    | 34D   |      |    |    | 8135  | 75.9 |      |      |
| Collm            | eP  |    |    | 38    |      |    |    | 8545  | 76.9 |      |      |
| Bensberg         | eP  |    |    | 39.8C | e    |    | 18 | 40    | 8590 | 77.3 |      |
| Moxa             | eP  |    |    | 42    |      |    |    | 8620  | 77.6 |      |      |
| Warsak           | P   |    |    | 44    |      |    |    | 8695  | 78.2 |      |      |
| Pruhon ice       | P   |    |    | 46    |      |    |    | 8680  | 78.1 |      |      |
| Niedzica         | eP  |    |    | 46.5  | e    |    | 19 | 06    | 8710 | 78.4 |      |
| Oujgorod         | eP  |    |    | 47    |      |    |    | 8775  | 79.0 |      |      |
| Erlangen         | eP  |    |    | 48.9D |      |    |    | 8730  | 78.6 |      |      |
| New Dehli.       | iP  |    |    | 49.1  |      |    |    | 8865  | 79.8 |      |      |
| Bokaro           | iP  |    |    | 50    |      |    |    | 8780  | 79.0 |      |      |
| Kasperské Hory   | P   |    |    | 50C   |      |    |    | 8780  | 79.0 |      |      |
| Folinigre        | iP  |    |    | 50.6  |      |    |    | 8800  | 79.2 |      |      |
| St Sauveur       | iP  |    |    | 51.8  |      |    |    | 8820  | 79.4 |      |      |
| Bühlerh die      | eP  |    |    | 53.4  |      |    |    | 8845  | 79.6 |      |      |
| Champ du Feu     | iP  |    |    | 54.2  |      |    |    | 8875  | 79.9 |      |      |
| Kichinev         | eP  |    |    | 55    |      |    |    | 88608 | 79.8 |      |      |
| Haudompré        | iP  |    |    | 56    |      |    |    | 8915  | 80.3 |      |      |
| Vannovskaya      | eP  |    |    | 56    |      |    |    | 8945  | 80.5 |      |      |
| Furstenfeldbruck | eP  |    |    | 56    | e    |    |    | 23    | 8900 | 80.1 |      |
| Charters Towers  | eP  |    |    | 59    | iS   |    |    | 29    | 04   | 8990 | 80.9 |
| Garchy           | iP  |    | 19 | 00C   |      |    |    |       | 8985 | 80.9 |      |
| Simferopol       | eP  |    |    | 00    |      |    |    |       | 8985 | 80.9 |      |
| Sommée Lormes    | iP  |    |    | 00.4  |      |    |    |       | 8990 | 80.9 |      |
| St Saulge        | iP  |    |    | 01.1  |      |    |    |       | 9000 | 81.0 |      |
| Les Buteaux      | iP  |    |    | 01.4  |      |    |    |       | 9025 | 81.2 |      |
| Campulung        | eP  |    |    | 02    |      |    |    |       | 9110 | 82.0 |      |
| Mashad           | eP  |    |    | 03    |      |    |    |       | 9045 | 81.4 |      |
| Kirovabad        | eP  |    |    | 04    |      |    |    |       | 9110 | 82.0 |      |
| Bakouriani       | eP  |    |    | 05.5  |      |    |    |       | 9085 | 81.6 |      |
| Touix Ste Croix  | iP  |    |    | 05.6  |      |    |    |       | 9095 | 81.8 |      |
| Clermont         | eP  |    |    | 06.5  | Le   |    | 50 | 17.5  | 9155 | 82.4 |      |
| Tr feste         | eP  |    |    | 07C   | eSKS |    | 29 | 26    | 9155 | 82.4 |      |
| Vouglans         | eIP |    |    | 08.6  |      |    |    |       | 9095 | 81.8 |      |
| Monaco           | eP  |    |    | 10.5  |      |    |    |       | 9395 | 84.5 |      |
| Archignac        | iP  |    |    | 11.6  |      |    |    |       | 9230 | 83.1 |      |
| La Frestale      | iP  |    |    | 11.9  |      |    |    |       | 9235 | 83.1 |      |
| Monteynard       | eIP |    |    | 12    |      |    |    |       | 9255 | 83.3 |      |
| Lanslevillard    | eIP |    |    | 12.6  | ei   |    | 19 | 16.2  | 9220 | 83.0 |      |
| Le pouchou       | iP  |    |    | 13.1  |      |    |    |       | 9265 | 83.4 |      |
| Quetta           | eP  |    |    | 14.3C |      |    |    |       | 9280 | 83.5 |      |
| Isola            | iP  |    |    | 17.4  |      |    |    |       | 9345 | 84.1 |      |
| Porto            | eP  |    |    | 18    | S    |    | 29 | 54    | 9345 | 85.9 |      |
| Tabriz           | iP  |    |    | 19    | e    |    |    | 43    | 9380 | 84.4 |      |

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|                  |       |         |        |     |       |    |       |        |
|------------------|-------|---------|--------|-----|-------|----|-------|--------|
| St Paul en Foret | iP    | 16 19   | 20° 2  |     |       |    | 9410  | 84° -  |
| San Juan         | eP    |         | 20° 5  | eS  | 16 29 | 43 | 9420  | 84° 8  |
| Lorgues          | iP    |         | 20° 8  |     |       |    | 9425  | 84° 8  |
| Bagnères         | eP    |         | 21     |     |       |    | 9435  | 84° 9  |
| La Mourre        | iP    |         | 21° 4  |     |       |    | 9435  | 84° 9  |
| Istanbul Uti     | eP    |         | 24° C  | eS  | 30    | 00 | 9500  | 85° 5  |
| L'Aquila         | eP    |         | 28     | ePS | 31    | 00 | 9535  | 85° 8  |
| Brisbane         | eP    |         | 30° 5  | e   | 29    | 12 | 9465  | 85° 2  |
| Toledo           | iP    |         | 34     | iS  | 30    | 18 | 9745  | 87° 7  |
| Pafaskevi        | eP    |         | 39° 1  |     |       |    | 9750  | 87° 7  |
| Athènes          | eP    |         | 40° 9  |     |       |    | 9830  | 89° 3  |
| Valsamata        | eP    |         | 43° 5  |     |       |    | 9945  | 89° 5  |
| Poona            | eP    |         | 44     |     |       |    | 9985  | 89° 8  |
| Chiraz           | iP    |         | 44° 3  | eL  |       | 08 | 9985  | 89° 7  |
| Roma             | e(DP) |         | 45     | e   |       | 01 | 9990  | 89° 3  |
| Rhodes           | eP    |         | 46° 6  |     |       |    | 10020 | 90° 2  |
| Caracas          | iP    |         | 48     |     |       |    | 10045 | 90° 4  |
| Malaga           | iP    |         | 49     | iS  |       | 45 | 10090 | 90° 8  |
| Vamos            | eP    |         | 57'    |     |       |    | 10200 | 91° 8  |
| Canberra         | eP    | 20      | 07     | e   |       | 12 | 10710 | 93° 7  |
| Kodai Canal      | iP    |         | 07° 5D |     |       |    | 10515 | 94° 6  |
| Quito            | e(DP) |         | 10     | e   |       | 24 | 10175 | 91° 6  |
| La Paz           | ePKP  | 25      | 27     |     |       |    | 12330 | 111° 0 |
| Lanto            | PKP   |         | 37° 8  |     |       |    | 13410 | 120° 7 |
| Bangui           | PKP   |         | 41° 8  |     |       |    | 13680 | 123° 1 |
| Butare           | iPKP  |         | 52° 9  |     |       |    | 14185 | 122° 7 |
| Byrd             | PKP   | 28      | 04° 5  |     |       |    | 15010 | 135° 1 |
| Brojen Hill      | PJP   |         | 06     |     |       |    | 15666 | 139° 2 |
| Kard             | PKP   |         | 11     |     |       |    | 15680 | 141° 1 |
| Chileka          | PKP   |         | 15     |     |       |    | 15345 | 138° 1 |
| Sa da Banda ra   | PKP   |         | 16° 4  |     |       |    | 15855 | 142° 7 |
| Afiamal          | eS    | 26° 3 - |        |     |       |    | 7305  | 65° -  |
| Bulawayo         | PKP   |         | 21     |     |       |    | 16055 | 144° 5 |
| Mawson           | PKP   |         | 31° 5  |     |       |    | 16655 | 149° 9 |
| Pretoria         | PKP   |         | 35° 5  |     |       |    | 16645 | 149° 8 |
| Windhoek         | iPKP2 |         | 36° 5  |     |       |    | 16645 | 149° 8 |
| Pietermaritzburg | ePKP2 |         | 41     |     |       |    | 16930 | 152° 4 |

ins crit à Messina, Strasbourg, Ponta Delgada,  
 Uccle, Bucaresti, Ksarâ, Lvov, M'bour, Priest, Bidapest,  
 Addis Ababa.

|                  |    | XII.         | 23       | Janvier           |             |
|------------------|----|--------------|----------|-------------------|-------------|
|                  |    | Région de la |          | Nouvelle Bretagne |             |
|                  |    |              | M        | (Rabaul)          |             |
| H = 16h 23m 21s. |    |              | M = 3° 5 |                   |             |
| Keravat          | iP | 16 23        | 41° 5D   | iS                | 16 23 56° 5 |
| Rabalanaka a     | iP |              | 42° 3    |                   |             |
| Rabail           | iP |              | 43       | iS                | 59° 5       |
| Wanliss Street   | iP |              | 43       |                   |             |

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XVIII. 23 janvier  
Sicile (Réplique)

H = 16h29<sup>mn</sup>(40)(ING) M = 3.60 (Roma)

|                  |       |    |    |      |       |    |    |       |
|------------------|-------|----|----|------|-------|----|----|-------|
| Messina          | e(Pn) | 16 | 30 | 22.3 | i(Sn) | 16 | 30 | 47.5  |
| Messina ING      | i     |    |    | 40.5 | e     |    |    | 54.1  |
| Reggio Calabriae |       |    |    | 48.8 |       |    |    |       |
| Roma             | eSg   | 31 | 51 |      | e     |    |    | 32 07 |

XIX. 23 janvier  
Sicile République

H = 16h57<sup>mn</sup>(10?)(ING) M = 3.60 (Roma)

|                 |     |    |    |         |     |    |    |      |
|-----------------|-----|----|----|---------|-----|----|----|------|
| Messina         | iPn | 16 | 57 | 52.5    | iSn | 16 | 58 | 33.5 |
| Messina ING     | e   |    |    | (59.5)  | e   |    |    | 2.4  |
| Reggio Calabria | e   |    |    | 58 18.2 |     |    |    |      |
| Pavia           | e   |    |    | 59 44   | e   | 17 | 00 | 16   |

inscrit à Roma.

XX. 23 janvier  
Sicile. République

|             |     |    |    |           |     |    |    |      |
|-------------|-----|----|----|-----------|-----|----|----|------|
| Messina     | iPn | 17 | 08 | 05.2      | iSn | 17 | 09 | 05.5 |
| Messina ING | e   |    |    | (52.5)    | e   |    |    | 33.5 |
| Roma        | e   |    |    | 10 40 S/D |     |    |    |      |

inscrit à Reggio Calabria.

XXA. 23 janvier  
Données insuffisantes

|                    |     |    |    |      |  |  |  |  |
|--------------------|-----|----|----|------|--|--|--|--|
| Toulx Sainte Croix | iPg | 17 | 16 | 37.5 |  |  |  |  |
| St Saülge          | iPg |    |    | 52.6 |  |  |  |  |
| Les Bâteaux        | iPg |    |    | 55.1 |  |  |  |  |
| Sommée Lormes      | iPg |    |    | 58.2 |  |  |  |  |
| Archignac          | eSg |    | 17 | 07.6 |  |  |  |  |
| Pouchou            | eSg |    |    | 17.6 |  |  |  |  |
| La Frestale        | eSg |    |    | 20.2 |  |  |  |  |

XXII. 23 janvier  
Sud du Soudan

Ves 5°0N, 34°0E H = 19h11<sup>mn</sup>(10)  
M = 4.7 (Bulawayo)

|             |     |    |    |       |    |    |    |        |
|-------------|-----|----|----|-------|----|----|----|--------|
| Broken Hill | eIP | 19 | 23 | 35D°C | eL | 19 | 31 | 12     |
| Ch ileka    | eIP |    |    | 37    | eL |    |    | 19     |
| Karoi       | eP  |    |    | 50    | eL |    |    | 32 19  |
| Bulawayo    | iP  |    |    | 21D   | eL |    |    | 3 (00) |

XXI. I. 23 janvier  
de Hondo (Japon)

Près de la cote Est de Hondo (Japon)

|                   |   |   |                  |   |   |   |
|-------------------|---|---|------------------|---|---|---|
| 40°8'N, 142°8'E   | h | = | 35 <sup>km</sup> | H | = | 19h16 <sup>mn</sup> 29 <sup>s</sup> (CGS) |
| 40°42'N, 142°56'E | h | = | 20 <sup>km</sup> | H | = | 19h16 <sup>mn</sup> 27 <sup>s</sup> (JMA) |

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M = 5.6 (Kajaani), 5.4 (New Delhi, NurmiJaervi), 5.1  
 (JMA, Kevo), 5.0 (Shillong), 4.9 (College), 4.7 (CGS),  
 4.6 (Wichita M), 4.3 (Blue M, Uinta Basin), 4.1 (Eureka),  
 3.5 (Tonto Forest).

|              |     |    |    |       |        |    |      |      |      |      |
|--------------|-----|----|----|-------|--------|----|------|------|------|------|
| Aomori       | iP  | 19 | 16 | 56.5  | iS     | 19 | 17   | 17.9 |      |      |
| Mizusawa     | eP  |    | 17 | 06.5  | eS     |    |      | 31.3 |      |      |
| Obihiro      | P   |    |    | 09.4  | S      |    |      | 39.4 |      |      |
| Sapporo      | P   |    |    | 12.3  | S      |    |      | 44   |      |      |
| Mito         | eP  |    |    | 39.5  | S      | 18 | 36   |      |      |      |
| Mt Tsukuba   | iP  |    |    | 41.4  |        |    |      |      | 555  | 5.0  |
| Dodaira      | iP  |    |    | 50.6  |        |    |      |      | 610  | 5.5  |
| Matsushiro   | iP  |    |    | 52.5  | eS     | 19 | 11   |      | 610  | 5.5  |
| Kiyosumi     | iP  |    |    | 55.9  |        |    |      |      | 655  | 5.9  |
| Kofu         | iP  |    |    | 28.9  |        |    |      |      |      |      |
| Oishiyama    | eP  |    |    | 38.4  |        |    |      |      | 990  | 8.9  |
| Wakaura W.   | eP  |    |    | 40    |        |    |      |      | 990  | 8.9  |
| Shiraki      | P   |    |    | 55.3  |        |    |      |      | 1120 | 10.1 |
| Funatsu      | e   | 19 |    | 08.1  | S      |    | 24.7 |      |      |      |
| Shillong     | iP  |    | 24 | 39.5  |        |    |      |      | 4955 | 44.6 |
| College      | eP  |    |    | 46    |        |    |      |      | 5045 | 45.4 |
| Pedro Dome   | iP  |    |    | 47.7  |        |    |      |      | 5055 | 45.5 |
| Black Rapids | iP  |    |    | 53.8  |        |    |      |      | 5155 | 46.4 |
| Chatfa       | iP  |    | 25 | 05.0  |        |    |      |      |      |      |
| Mould Bay    | eP  |    |    | 41    |        |    |      |      | 5855 | 52.7 |
| New Delhi    | eP  |    |    | 51.7  |        |    |      |      | 6010 | 54.1 |
| Kevo         | iP  | 26 |    | 36    | i      |    | 43.8 |      | 6710 | 60.4 |
| Sodankylae   | eP  |    |    | 36    |        |    |      |      | 6890 | 62.0 |
| Oulu         | iP  |    |    | 57.7  |        |    |      |      |      |      |
| Kajaani      | iP  |    |    | 58.8  | i      |    | 27   | 06.8 | 7080 | 63.7 |
| Umea         | iP  | 27 |    | 14.9  |        |    |      |      |      |      |
| NurmiJaervi  | iP  |    |    | 21    | i      |    | 25.3 | 7465 |      | 6.2  |
| Edmonton     | eP  |    |    | 21    |        |    |      | 7310 |      | 65.8 |
| Noraman      | eP  |    |    | 26    |        |    |      | 7400 |      | 66.6 |
| Newport      | eP  |    |    | 27    |        |    |      | 7420 |      | 66.8 |
| Brisbane     | eP  |    |    | 30    |        |    |      | 7600 |      | 68.4 |
| Blue M       | eP  |    |    | 30.7  | e      |    | 39.3 | 7635 |      | 68.8 |
| Skalstuen    | eP  |    |    | 32    |        |    |      |      |      |      |
| Hungry Horse | eP  |    |    | 37.2  |        |    |      | 7600 |      | 68.4 |
| Lillehammer  | iP  |    |    | 46    |        |    |      | 7920 |      | 71.3 |
| Bozeman SSS  | eP  |    |    | 47.4  | i      |    | 55.6 | 7935 |      | 71.4 |
| Eureka       | iP  |    |    | 55.8  |        |    |      | 8080 |      | 72.7 |
| Woody        | P   |    |    | 58    | e      | 28 | 06   | 8145 |      | 73.3 |
| Dugway       | eP  |    | 28 | 03.8  |        |    |      | 8245 |      | 74.2 |
| Uinta Basin  | eP  |    |    | 14.4  |        |    |      | 8435 |      | 75.9 |
| Krakow       | eIP |    |    | 18.2C | e      |    | 30.4 |      |      |      |
| Niedzica     | eIP |    |    | 20.5C |        |    |      |      |      |      |
| Collm        | iP  |    |    | 27.5  | i      |    | 39.9 | 8710 |      | 78.4 |
| Pruhonic     | ei  |    |    | 31    |        |    |      |      |      |      |
| Tonto Forest | eP  |    |    | 31.6  | e(PCP) |    | 37.7 | 870  |      | 79.0 |
| Erlangen     | eP  |    |    | 39.7  | e(PCP) |    | 51.9 |      |      |      |



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|                  |      |          |      |      |
|------------------|------|----------|------|------|
| Fürstenfeldbruck | eP   | 19 28 46 |      |      |
| Rhodes           | eP   | 51.7     |      |      |
| Sommée Lormes    | eP   | 29 02.9  | 9455 | 85.1 |
| Lds Buteaux      | eP   | 03.9     |      |      |
| St. Saulge       | eP   | 04.4     | 9480 | 85.5 |
| Wichita M.       | eP   | 07.3     | 9565 | 86.1 |
| Toulx Ste Croix  | eiP  | 10.3     |      |      |
| La Paz           | ePKP | 36 02    |      |      |

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Ethiopie.

8°7'N; 37°7'E; h = 33km; H = 19h.18<sup>mn</sup>13<sup>s</sup>. (CGS)

Ressenti à Addis Ababa

M. = 5.1 (CGS-Bangui)

|                  |     |                         |    |          |       |      |
|------------------|-----|-------------------------|----|----------|-------|------|
| Addis Ababa      | iP  | 19 18 32.5 <sup>C</sup> | eS | 19 18 48 | 120   | 1.1  |
| Butare           | iP  | 21 24                   | iS | 24 18.5  |       |      |
| Bangui           | iP  | 22 37.1 <sup>C</sup>    |    |          | 2155  | 18.4 |
| Helwan           | iP  | 23 05 <sup>D</sup>      | iS | 27 10    | 24 35 | 21.9 |
| Jérusalem        | eP  | 22                      |    |          | 2565  | 23.1 |
| Broken Hill      | eP  | 35                      | iL | 31 12    | 2745  | 24.7 |
| Chileka          | eP  | 37                      | eL | 19       | 27 10 | 24.4 |
| Chiraz           | P   | 36.2                    | eL | 28 10    | 2820  | 25.4 |
| Karoi            | eP  | 50                      | eL | 32 19    | 2355  | 26.6 |
| Kermanshah       | eP  | 57                      |    |          |       |      |
| Bulawayo         | iP  | 24 24 <sup>D</sup>      | eL | 34 00    | 3335  | 30.0 |
| Téhéran          | eP  | 23                      |    |          | 3300  | 29.7 |
| Tabriz           | eP  | 28                      | ei | 24 40    |       |      |
| Sada Bandeira    | iP  | 53.1                    |    |          | 3720  | 33.5 |
| Taman fasset     | iP  | 56 <sup>C</sup>         |    |          | 3755  | 33.8 |
| Quetta           | eP  | 25 08.2                 |    |          | 3855  | 34.7 |
| Sofia            | iP  | 15.1                    |    |          |       |      |
| Poona            | eP  | 21                      |    |          |       |      |
| Campulung        | eP  | 32                      |    |          | 411 0 | 37.0 |
| Vrincioala       | P   | 34 <sup>C</sup>         |    |          |       |      |
| Warsak           | iP  | 50.5 <sup>C</sup>       |    |          |       |      |
| New Dehli        | iP  | 51.7                    | i  | 26 09    |       |      |
| Budapest         | eP  | 52                      |    |          | 4645  | 41.8 |
| Lamto            | P   | 26 06.1                 |    |          | 47 10 | 42.4 |
| Trieste          | eP  | 07                      | eS | 32 24    | 4690  | 42.2 |
| Wien             | eP  | 10.5                    |    |          |       |      |
| Bratislava       | eiP | 11                      | ei | 26 48.5  |       |      |
| Niedzica         | eP  | 13                      |    |          |       |      |
| Krakow           | eP  | 17.9                    | e  | 28 04.4  |       |      |
| Kaspéské Hory    | eiP | 28                      |    |          | 5010  | 45.1 |
| Pruhonicé        | eP  | 31                      | e  | 31       | 5045  | 45.5 |
| Fürstenfeldbruck | eP  | 33                      |    |          |       |      |
| Ifrane           | eP  | 40                      | e  | 43 15    | 5165  | 46.5 |
| Erlangen         | eP  | 40.2 <sup>C</sup>       |    |          |       |      |

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|                 |     |          |    |          |       |        |
|-----------------|-----|----------|----|----------|-------|--------|
| Moxa            | eP  | 19 26 43 | eS | 19 33 38 | 5220  | 47° 0  |
| Collm           | eP  | 43       |    |          | 5235  | 47° 1  |
| Champ du Feu    | eP  | 43° 9    |    |          |       |        |
| Haudompré       | eP  | 44° 7    |    |          |       |        |
| Clermont        | eP  | 45° 5    | e  | 27 03° 5 |       |        |
| Les Buteaux     | eP  | 48° 9    |    |          |       |        |
| Sommée Lormes   | eP  | 50° 6    |    |          | 5335  | 48° 0  |
| St. Saulge      | eP  | 50° 9    |    |          | 5335  | 48° 0  |
| Toulx Ste Croix | eP  | 53° 7    |    |          |       |        |
| Toledo          | eP  | 55° 0    | LR | 42 00    |       |        |
| St. Sauveur     | eP  | 27 12° 5 |    |          | 5645  | 50° 8  |
| Le Pâtre        | eP  | 13° 8    |    |          |       |        |
| Averroes        | e   | 14       |    |          |       |        |
| Gorron          | eP  | 14° 5    |    |          | 5680  | 51° 1  |
| Folinigre       | eP  | 15       |    |          | 56 0  | 51° 2  |
| Uppsala         | iP  | 29° 5    | 1  | 27 33° 1 |       |        |
| Göteborg        | iP  | 28° 2    |    |          |       |        |
| Kajaani         | iP  | 48° 3    |    |          |       |        |
| Umeå            | iP  | 52° 6    |    |          |       |        |
| Oulu            | iP  | 55° 3    |    |          |       |        |
| Sodankylä       | eP  | 28 04    |    |          |       |        |
| Kiruna          | eP  | 20       |    |          |       |        |
| Kevo            | iP  | 27       |    |          |       |        |
| Bozeman SSS     | PKP | 37 02° 8 |    |          | 13255 | 119° 3 |
| Wichita M.      | PKP | 03° 0    |    |          | 13355 | 120° 2 |
| Uinta Basin     | PKP | 06° 2    |    |          | 13620 | 122° 6 |
| Dugway          | PKP | 11° 8    |    |          | 13800 | 124° 2 |
| Tonto Forest    | PKP | 20° 3    |    |          | 14235 | 128° 1 |
| Tucson          | PKP | 22° 3    |    |          | 14365 | 129° 3 |
| Isabella        | PKP | 24       |    |          | 14500 | 130° 5 |
| San Luis Dam    | PKP | 24° 7    |    |          | 14480 | 130° 3 |

Inscrit à Istanbul UTI - M'Bour - Rabat - Hermanus - Sétif -  
Ponta Delgada - Bombay - Nairobi - Ksara - Garchy.

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Alaska.

70° 4'N; 143° 9'W; h = 33 km; H = 20h.57<sup>mm</sup>49<sup>s</sup>. (CGS)

M = 4.2 (CGS - Uinta Basin)

|               |    |             |    |          |      |      |
|---------------|----|-------------|----|----------|------|------|
| Barrow        | eP | 20 58 54° 1 |    |          | 480  | 4° 3 |
| Pedro Dome    | iP | 59 11° 3    |    |          | 620  | 5° 6 |
| Gilmore Creek | eP | 12° 2       | eS | 21 00 14 | 620  | 5° 6 |
| College       | iP | 13° 6       |    |          | 635  | 5° 7 |
| Tanana        | eP | 18          |    |          | 665  | 6° 0 |
| Black Rapids  | iP | 41° 1       |    |          | 780  | 7° 0 |
| Mould Bay     | eP | 21 00 02    |    |          | 1010 | 9° 1 |
| Palmer        | eP | 02° 3       |    |          | 1010 | 9° 1 |

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|             |    |                       |  |      |      |
|-------------|----|-----------------------|--|------|------|
| Coppermine  | 1P | 21 00 21 <sup>D</sup> |  | 1165 | 10°5 |
| Resolute    | eP | 01 18                 |  | 1655 | 14°9 |
| Edmonton    | eP | 02 53                 |  | 2445 | 22°0 |
| Uinta Basin | eP | 04 46·8               |  | 3880 | 34°9 |

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Mozambique

23°5S; 33°0E; h = 33km; H = 21h.12<sup>mn</sup>37s. (CGS)  
 23°6S; 33°0E; H = 21h.12<sup>mn</sup>36s. (Bulawayo)

M. = 4·1 (Bulawayo)

|              |                  |                    |    |            |       |       |
|--------------|------------------|--------------------|----|------------|-------|-------|
| Changalane   | 1P               | 21 13 20·4         | 1S | 21 13 52·6 | 320   | 2°9   |
| Prétoria     | 1P               | 50·3               |    |            | 545   | 4°9   |
| Bulawayo     | ePn              | 57                 | 1S | 14 57      | 590   | 5°3   |
| Karoi        | 1Pn              | 14 24 <sup>C</sup> | 1S | 15 45      | 820   | 7°4   |
| Chileka      | eP               | 35                 | eS | 18 01      | 890   | 8°0   |
| Broken Hill  | 1P               | 15 00              | 1S | 47         | 1110  | 10°0  |
| Kimberley    | 1                | (55)               |    |            |       |       |
| Windhoek     | 1P               | 16 03·5            | 1S | 20(20)     |       |       |
| Uinta Basin  | PKP <sub>2</sub> | 32 11·2            |    |            | 16045 | 14°4  |
| Tonto Fofest | PKP <sub>2</sub> | 19·8               |    |            | 16345 | 147°1 |
| Blue M.      | PKP              | 21·2               | e  | 32 30      | 16420 | 147°8 |

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Iles Talaid

3°8N; 126°6E; h = 78km; H = 21h.38<sup>mn</sup>22·3s. (CGS)  
 3°6N; 126°6E; h = 109km; H = 21h.38<sup>mn</sup>24s. (URSS)

M. = 5·8 (Shillong); 5·6 (CGS); 5·2 (Kajaani)

|                   |    |                    |    |          |      |      |
|-------------------|----|--------------------|----|----------|------|------|
| Davao             | 1P | 21 39 15           |    |          | 390  | 3°5  |
| Baguio            | eP | 41 41              | eS | 21 44 16 | 1545 | 13°9 |
| Darwin            | eP | 42 05              | eS | 45 07    | 1845 | 16°6 |
| Charters Towers   | eP | 44 33              |    |          | 3400 | 30°6 |
| Shiraki           | eP | 36·4               |    |          | 3455 | 31°1 |
| Dodaira           | eP | 45 01·8            |    |          | 3790 | 34°1 |
| Matsushiro        | P  | 02                 | e  | 52 16    |      |      |
| Mt. Tsukuba       | eP | 05·6               |    |          | 3845 | 34°6 |
| Mundaring         | 1P | 24·2               |    |          | 4100 | 36°9 |
| Vladivostok       | eP | 47                 |    |          |      |      |
| Brisbane          | 1P | 49                 |    |          | 4445 | 40°0 |
| Shillong          | 1P | 49                 |    |          | 4410 | 39°7 |
| Adélaide          | eP | 53                 |    |          | 4465 | 40°2 |
| Chatra            | 1P | 46 26 <sup>C</sup> |    |          |      |      |
| Canberra          | eP | 26                 |    |          | 4910 | 44°2 |
| Toolangi          | eP | 31                 |    |          | 4965 | 44°7 |
| Youjno_Sakhalinsk | eP | 34                 |    |          |      |      |

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|                |     |                   |   |          |       |       |
|----------------|-----|-------------------|---|----------|-------|-------|
| New Dehli      | eP  | 21 47 32          |   |          |       |       |
| Poona          | eP  | 36.5              |   |          |       |       |
| Bodajbo        | iP  | 47                |   |          |       |       |
| Garm           | eP  | 48 35             |   |          |       |       |
| Quetta         | eP  | 38.5 <sup>C</sup> |   |          |       |       |
| Sverdlovsk     | eP  | 49 50             |   |          | 6890  | 62.0  |
| Chiraz         | P   | 52.5              |   |          | 8220  | 74.0  |
| Palmer         | eP  | 50 43.8           |   |          | 9335  | 84.0  |
| Kevo           | eP  | 51 13             |   |          | 9980  | 89.8  |
| Sodankylä      | eP  | 15                |   |          | 10045 | 90.4  |
| Kajaani        | iP  | 16.7              | e | 21 51 31 | 10055 | 90.5  |
| Oulu           | eP  | 18                |   |          |       |       |
| Mould Bay      | eP  | 24                |   |          | 10220 | 92.0  |
| NurmiJaerwi    | eP  | 26                |   |          | 10290 | 92.6  |
| Uméa           | eP  | 32                |   |          |       |       |
| Cumberland Pl. | PKP | 57 27.4           |   |          | 14510 | 130.6 |
| La Paz         | PKP | 58 20             |   |          |       |       |

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Vallée de l'Ubaye (France)

44° 5'N; 6° 8'E; H = 21h.47<sup>mn</sup>20<sup>s</sup>. (BCIS)

|                       |      |          |     |            |  |     |     |
|-----------------------|------|----------|-----|------------|--|-----|-----|
| Isola                 | iPg  | 21 47 27 |     |            |  | 40  | 0.4 |
| Sant Anna di Valdieri | iPg  | 28.4     | iSg | 21 47 34.5 |  | 45  | 0.4 |
| Cunéo S. Rocco        | eiPg | 29.5     | iSg | 36.7       |  | 60  | 0.5 |
| Lanslevillard         | iPg  | 32.5     | i!  | 42.2       |  | 85  | 0.8 |
| Monteynard            | iPg  | 35.7     | iSg | 46.8       |  | 100 | 0.9 |
| Monaco                | iPg  | 37.3     | iSg | 51         |  | 100 | 0.9 |
| St. Paul en Foret     | iPg  | 37.9     |     |            |  | 105 | 0.9 |
| Roselend              | eiPn | 40.2     | iSg | 48 03.1    |  | 130 | 1.2 |
| Lorgues               | iPg  | 40.6     |     |            |  | 120 | 1.1 |
| La Mourre             | eiPg | 42       |     |            |  | 130 | 1.2 |
| Genova                | ePn  | 46.2     | eSg | 07.4       |  | 170 | 1.5 |
| Vouglans              | ePg  | 55       | eSg | 30.2       |  | 230 | 2.1 |
| Les Buteaux           | iPn  | 48 10.1  |     |            |  | 350 | 3.2 |
| St. Saulge            | iPn  | 14       |     |            |  | 385 | 3.5 |
| Sommée Lormes         | iPn  | 14       |     |            |  | 385 | 3.4 |
| Haudompré             | iPn  | 14.5     |     |            |  | 390 | 3.5 |
| Toulx Ste Croix       | iPn  | 18.1     |     |            |  | 410 | 3.7 |
| Garchy                | Pn   | 19.4     | i   | 49 19.4    |  | 425 | 3.8 |
| Champ du Feu          | iPn  | 19.7     |     |            |  | 435 | 3.9 |

Inscrit à Clermont.

XXIX. 23 Janvier

Près de la cote de Guerrero (Mexique)

17° 03'N; 100° 42'W; H = 21h.58<sup>mn</sup>02.5<sup>s</sup>. (Tacubaya)

|                  |     |            |     |            |  |     |     |
|------------------|-----|------------|-----|------------|--|-----|-----|
| Presa Infiemillo | iPn | 21 58 32.5 | iSn | 21 58 53.5 |  | 190 | 1.7 |
|------------------|-----|------------|-----|------------|--|-----|-----|

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|                 |     |          |     |            |     |     |
|-----------------|-----|----------|-----|------------|-----|-----|
| Nat.Univ.Mexico | iPn | 21 58 49 | iSn | 21 59 22   | 300 | 2'7 |
| Tacubaya        | iPn | 49       |     |            | 300 | 2'7 |
| Vista Hermosa   | iP  | 59 04.5  | iS  | 50         | 420 | 3'8 |
| Presa Benito J. | eP  | 24.5     | iS  | 22 00 27.2 | 568 | 5'1 |

I.- 24 Janvier

Hindou Kouch

36°6N; 71°4E; h = 144km; H = 00h.00mn45s.(URSS)

|             |     |          |      |          |      |      |
|-------------|-----|----------|------|----------|------|------|
| Khoroq      | iP  | 00 01 09 |      |          | 90   | 0'8  |
| Garm        | iP  | 26.8D    |      |          | 280  | 2'5  |
| Douchambé   | eP  | 32       | i(S) | 00 02 02 | 310  | 2'8  |
| Warsak      | P   | 38       |      |          |      |      |
| Mangla      | iP  | 57.3C    |      |          |      |      |
| Quetta      | eP  | 02 29.4C | eS   | 04 08.2  |      |      |
| Talgar      | eP  | 41       |      |          | 890  | 8'0  |
| Vannovskaya | eP  | 03 18    |      |          | 1190 | 10'7 |
| Mashad      | eIP | 04 44.5  |      |          |      |      |
| Nurmijaerwi | eP  | 07 57    |      |          | 4210 | 37'9 |

II.- 24 Janvier

Crete médiane de l'Océan Atlantique

8°1N; 39°1W; h = 33km; H = 00h.59mn21.9s.(CGS)  
 9°3N; 37°8W; H = 00h.59mn29s.(URSS)

M. = 5.7(Edmonton); 5.6(Bangui); 5.4(Newport); 5.3(Dugway Uinta Basin - North Pole); 5.2(Bensberg); 5.1(Cumberland Pl. Kajaani - CGS - Bozeman SSS - Kevo); 5.0(Tonto Forest - Wichita M. Station Nord - Blue M. College); 4.9(La Paz-Tucson); 4.8(Penas-Eureka); 4.6(Golden)

|               |     |          |    |          |      |      |
|---------------|-----|----------|----|----------|------|------|
| M' Bour       | iP  | 01 04 14 | eS | 01 08 13 | 2400 | 21'6 |
| Lanto         | P   | 05 55.2  |    |          | 3655 | 32'9 |
| Averroes      | P   | 06 37    |    |          | 4200 | 37'8 |
| Rabat Z       | eP  | 42.0     |    |          | 4220 | 36'6 |
| La Paz        | P   | 44.5     | eS | 12 40.   | 4280 | 38'5 |
| Penas         | eP  | 45.0     | eS | 42       | 4290 | 38'6 |
| Ifrane        | P   | 53       |    |          | 4390 | 39'5 |
| Huancayo      | eP  | 07 13.0  |    |          | 4680 | 42'1 |
| Almería       | eP  | 21.5     |    |          | 4800 | 43'2 |
| Tamar asset   | iP  | 32C      | i  | 07 45    | 4920 | 44'3 |
| Blacksburg    | P   | 08 02.1  |    |          | 5330 | 48'0 |
| Bagnères      | eIP | 03       |    |          | 5370 | 48'3 |
| La Frestale   | eP  | 14.0     |    |          | 5525 | 49'7 |
| Le Pouchou    | eP  | 14.6     |    |          | 5540 | 49'9 |
| Archignac     | eP  | 16.2     |    |          | 5570 | 50'1 |
| Le Pertre     | eP  | 20.6     |    |          | 5625 | 50'6 |
| Gorron        | eP  | 22.5     |    |          | 5655 | 50'9 |
| Cumberland Pl | eP  | 24.7     |    |          | 5690 | 51'2 |
| Folinière     | eP  | 25.6     |    |          | 5710 | 51'4 |

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|                  |      |                      |                   |      |          |       |      |
|------------------|------|----------------------|-------------------|------|----------|-------|------|
| St. Sauveur      | eP   | 01 08                | 25.6              |      |          | 57 10 | 51.4 |
| Toulx Ste Croix  | eP   |                      | 25.8              |      |          | 57 05 | 51.4 |
| St. Saulge       | eP   |                      | 34.9              |      |          | 58 30 | 52.5 |
| Les Buteaux      | eP   |                      | 36.1              |      |          | 58 60 | 52.8 |
| Sommée Lormes    | eP   |                      | 36.6              |      |          | 58 70 | 52.8 |
| Garchy           | iP   |                      | 38.8 <sup>C</sup> |      |          | 58 25 | 52.4 |
| Vouglans         | eiP  |                      | 41.5              | e    | 01 08 43 | 59 35 | 53.4 |
| Roselend         | eP   |                      | 42.4              |      |          | 59 60 | 53.6 |
| Lanslevillard    | eP   |                      | 49.3              |      |          | 60 75 | 54.7 |
| Champ du Feu     | eP   |                      | 55.5              |      |          | 61 55 | 55.4 |
| Bangui           | iP   | 09 02.8 <sup>D</sup> |                   | iPP  | 11 15.0  | 62 70 | 56.4 |
| Bensberg         | eP   |                      | 04.9              | e    | 09 15    | 63 00 | 56.7 |
| Fürstenfeldbruck | eP   |                      | 11                | e    | 24       | 64 00 | 57.6 |
| Trieste          | eP   |                      | 14.2              | eS   | 17 16    | 64 55 | 58.1 |
| Erlangen         | eP   |                      | 15.7 <sup>C</sup> |      |          | 64 75 | 58.3 |
| Ljubljana        | eP   |                      | 19                |      |          | 65 25 | 58.7 |
| Moxa             | eP   |                      | 19                |      |          | 65 45 | 58.9 |
| Kasperské Hory   | eiP  |                      | 22.5              |      |          | 66 00 | 59.4 |
| Lawrence         | eP   |                      | 23.3              |      |          | 66 10 | 59.5 |
| Frobisher        | eP   |                      | 24.0              |      |          | 66 20 | 59.6 |
| Collm            | eP   |                      | 28                |      |          | 66 70 | 60.0 |
| Pruhonice        | eiP  |                      | 30.3              |      |          | 67 00 | 60.3 |
| Budapest         | e(P) |                      | 32                |      |          | 69 00 | 62.1 |
| Wichita M.       | eP   |                      | 33.6              | ePcP | 10 10.9  | 68 00 | 61.2 |
| Bratislava       | eiP  |                      | 35                | ei   | 09 46.1  | 67 95 | 61.2 |
| Krakow           | eP   |                      | 51.9              |      |          | 70 65 | 63.6 |
| Niedzica         | eP   |                      | 52.5              |      |          | 70 65 | 63.6 |
| Lillehammer      | iP   |                      | 54.3              |      |          | 72 10 | 64.0 |
| Oujgorod         | eP   |                      | 59                |      |          | 71 75 | 64.6 |
| Skalstugan       | iP   | 10 06.7              |                   |      |          | 73 25 | 65.9 |
| Uppsala          | iP   |                      | 08.2 <sup>C</sup> |      |          | 73 55 | 66.2 |
| Golden           | eP   |                      | 16.5              |      |          | 74 90 | 67.4 |
| Butare           | iP   |                      | 24.3              |      |          | 76 10 | 68.5 |
| Uméa             | iP   |                      | 26.6 <sup>C</sup> |      |          | 76 80 | 69.1 |
| Nurmijaerwi      | iP   |                      | 30.6              |      |          | 77 45 | 69.7 |
| Broken Hill      | iP   |                      | 32.0              |      |          | 77 45 | 69.7 |
| Uinta Basin      | eP   |                      | 36.4              | ePP  | 13 00.8  | 78 45 | 70.6 |
| Kiruna           | iP   |                      | 37.5              |      |          | 78 90 | 71.0 |
| Tucson           | eP   |                      | 39.0              |      |          | 79 00 | 71.1 |
| Bulawayo         | eP   |                      | 40                |      |          | 79 30 | 71.4 |
| Karoi            | eP   |                      | 41 <sup>C</sup>   |      |          | 79 30 | 71.4 |
| Tonto Fordst     | eP   |                      | 42.6              | ePP  | 21.2     | 79 55 | 71.6 |
| Hérusalem        | eP   |                      | 43                | e    | 20 49    | 79 55 | 71.6 |
| Oulu             | eP   |                      | 43                |      |          | 79 90 | 71.9 |
| Kajaani          | iP   |                      | 46.3 <sup>D</sup> |      |          | 80 30 | 72.3 |
| Bozeman SSS      | iP   |                      | 48.5              |      |          | 80 80 | 72.7 |
| Sodankylä        | iP   |                      | 49.8              |      |          | 81 00 | 72.9 |
| Dugway           | eP   |                      | 51.6              |      |          | 81 20 | 73.1 |
| Resolute         | eP   |                      | 53.0 <sup>C</sup> |      |          | 82 00 | 73.8 |
| Butte            | eP   |                      | 53.3              |      |          | 81 55 | 73.4 |

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|              |     |       |                   |              |       |       |
|--------------|-----|-------|-------------------|--------------|-------|-------|
| Station Nord | iP  | 01 10 | 54.9              |              | 8230  | 74.1  |
| Kevo         | iP  |       | 55.4              |              | 8210  | 73.9  |
| Hungry Horse | eP  |       | 59.6              |              | 8290  | 74.6  |
| Edmonton     | iP  | 11    | 00.0              |              | 8300  | 74.7  |
| Moskva       | eP  |       | 04                |              | 8370  | 75.3  |
| Apatity      | iP  |       | 05 <sup>C</sup>   |              | 8390  | 75.5  |
| Eureka       | eP  |       | 05.8              |              | 8390  | 75.5  |
| Goldstone    | P   |       | 10.0              |              | 8455  | 76.1  |
| Nordman      | iP  |       | 10.7              |              | 8510  | 76.6  |
| Newport      | iP  |       | 10.9              |              | 8520  | 76.7  |
| Blue M.      | eP  |       | 11.1              |              | 8520  | 76.7  |
| Chileka      | iP  |       | 13 <sup>C</sup>   |              | 8455  | 76.1  |
| Bakouriani   | eP  |       | 22.6              |              | 8710  | 78.4  |
| Jamestown    | eP  |       | 25.1 <sup>D</sup> | e 01 11 42.0 | 8780  | 79.0  |
| Priest       | eP  |       | 27.0 <sup>C</sup> |              | 8810  | 79.3  |
| Oroville     | iP  |       | 28.9              |              | 8870  | 79.8  |
| San Luis Dam | eP  |       | 29.1              |              | 8855  | 79.7  |
| Mineral      | eP  |       | 29.6 <sup>C</sup> |              | 8875  | 79.9  |
| Berkeley     | eP  |       | 29.7 <sup>D</sup> |              | 8930  | 80.4  |
| North Pole   | eP  |       | 30.4              |              | 8900  | 80.1  |
| Mt. Hamilton | eP  |       | 31.0 <sup>D</sup> |              | 8890  | 80.0  |
| Chiraz       | P   | 12    | 05.2              |              | 9645  | 86.8  |
| College      | eP  |       | 23.0              |              | 10100 | 90.9  |
| Toolangi     | PKP | 19    | 13.0              |              | 16720 | 150.5 |

inscrit à Roma.

III. 24 Janvier

Mer Rouge (?)

Données insuffisantes.

|             |    |       |         |      |       |    |
|-------------|----|-------|---------|------|-------|----|
| Addis Ababa | eP | 01 19 | 52      |      |       |    |
| Ksara       | iP |       | 21 10   | i(S) | 01 23 | 19 |
| Shiraz      | P  |       | 10.0    |      |       |    |
| Eutare      | ei |       | 22 33.1 |      |       |    |
| Bangui      | e  |       | 45.8    |      |       |    |
| Oulu        | eP |       | 25 56   |      |       |    |
| Sodankylä   | eP |       | 26 13   |      |       |    |

IV. 24 Janvier

Golfe de l'Alaska.

59°9N; 145°9W; h = 21km; H = 01h.33<sup>mm</sup>20.8s. (CGS)

M. = 4.1(Uinta Basin Wichita M.); 3.9(CGS\_North Pole); 3.8(Blue M.);  
3.7(Tonto Forest)

Middleton Island iP 01 33 32.0

55 0.5

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|                 |    |                      |     |            |      |      |
|-----------------|----|----------------------|-----|------------|------|------|
| Mts Sheep Creek | iP | 01 33 56.8           | i   | 01 33 58.5 | 230  | 2.1  |
| Palmer          | eP | 34 00.9              | eS  | 34 25.5    | 255  | 2.3  |
| Black Rapids    | iP | 17.8                 |     |            | 400  | 3.6  |
| Kodiak          | eP | 22.2                 |     |            | 445  | 4.0  |
| Big Mountain    | eP | 33.5                 |     |            | 530  | 4.8  |
| Sparrevohn      | eP | 35.5                 |     |            | 555  | 5.0  |
| College         | iP | 37.4                 |     |            | 570  | 5.1  |
| Gilmore Creek   | eP | 38.0                 | eLG | 36 02.9    | 580  | 5.2  |
| Pedro Dome      | eP | 38.6                 |     |            | 580  | 5.2  |
| Tanana          | eP | 52.0                 |     |            | 680  | 6.1  |
| Mould Bay       | eP | 37 40.0              |     |            | 2090 | 18.8 |
| North Pole      | eP | 40.7                 |     |            | 2090 | 18.8 |
| Edmonton        | eP | 43.0                 |     |            | 2110 | 19.0 |
| Hungry Horse    | eP | 38 14.3              |     |            | 2410 | 21.7 |
| Blue M.         | eP | 23.2                 |     |            | 2533 | 22.8 |
| Resolute        | eP | 30.0                 |     |            | 2610 | 23.5 |
| Mineral         | eP | 42.8 <sup>C</sup>    |     |            |      |      |
| Jamestown       | eP | 39 06.6 <sup>C</sup> |     |            |      |      |
| Eureka          | eP | 10.6                 |     |            | 3080 | 27.7 |
| San Luis Dam    | eP | 13.0                 |     |            | 3090 | 27.8 |
| Uinta Basin     | eP | 28.9                 |     |            | 3320 | 29.9 |
| Tonto Forest    | eP | 40 09.0              |     |            | 3790 | 34.1 |
| Wichita M.      | eP | 47.1                 |     |            | 4390 | 39.5 |

V.- 24 Janvier

Piémont (Italie)

45° 1N; 7° 4E; H = 02<sup>h</sup>.06<sup>mm</sup>04<sup>s</sup>. (BCIS)

|                   |       |            |     |            |     |     |
|-------------------|-------|------------|-----|------------|-----|-----|
| Lanslevillard     | eIPg  | 02 06 11.8 | iSg | 02 06 16.9 | 45  | 0.4 |
| Roselend          | eIPg  | 18.0       | iSg | 27.0       | 85  | 0.8 |
| Monteynard        | ePg   | 28         | eSg | 46.5       | 140 | 1.3 |
| St. Paul en Foret | ePg   | 34.4       |     |            | 185 | 1.7 |
| Vouglans          | (e)Pg | 37         | ei  | 07 02.1    | 195 | 1.8 |
| Lorgues           | iPg   | 38.1       |     |            | 205 | 1.9 |
| Les Buteaux       | ePn   | 53.2       |     |            | 335 | 3.0 |
| Sommée Lormes     | ePn   | 55.7       |     |            | 365 | 3.3 |
| St. Saulge        | ePn   | 58.7       |     |            | 375 | 3.4 |

VI.- 24 Janvier

Région de la Nouvelle Bretagne.

H = 02<sup>h</sup>.54<sup>mm</sup>53<sup>s</sup>.; M. = 3.4 (Rabaul)

|                |      |                   |      |            |  |  |
|----------------|------|-------------------|------|------------|--|--|
| Wanliss Street | iP   | 02 55 12.8        |      |            |  |  |
| Rabaul         | iP   | 12.9 <sup>D</sup> | iS   | 02 55 23.5 |  |  |
| Rabalanakaia   | iP   | 13.0              |      |            |  |  |
| Keravat        | i(P) | 15 <sup>D</sup>   | i(S) | 31         |  |  |



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VII. 24 janvier  
Alaska Central

62°9'N. 150°8'W h = 103 km. H = 03<sup>h</sup>27<sup>m</sup>03.5<sup>s</sup> (CGS)  
M = 3.7 (Uinta Basin, CGS), 3.6 (North Pole)

|                |    |         |      |    |         |      |       |      |
|----------------|----|---------|------|----|---------|------|-------|------|
| Palmer         | IP | 03 27   | 30.3 | eS | 03 27   | 50.0 | 170   | 1.5  |
| Mt Sheep Creek | eP |         | 35.0 |    |         |      | 210   | 1.9  |
| Black Rapids   | eP |         | 40.2 |    |         |      | 245   | 2.2  |
| College        | IP |         | 41.0 | eS | 28 07.0 |      | 255   | 2.3  |
| Tanana         | IP |         | 42.8 |    |         |      | 270   | 2.4  |
| Gilmore Creek  | eP |         | 43.2 | eS | 0 9.0   |      | 280   | 2.5  |
| Pedro Dome     | IP |         | 43.7 |    |         |      | 280   | 2.5  |
| Spar évoim     | IP |         | 50.4 |    |         |      | 330   | 3.0  |
| Big M.         | IP | 28 07.4 |      |    |         |      | 470   | 4.2  |
| Kodiak         | eP |         | 19.9 | e  | 29 28.0 |      | 590   | 5.3  |
| North Pole     | eP | 30      | 51.5 |    |         |      | 1880  | 16.9 |
| Edmonton       | eP | 31      | 47.0 |    |         |      | 2410  | 21.7 |
| Resolute       | eP |         | 53.0 |    |         |      | 2470  | 22.2 |
| Blue M.        | eP | 32      | 56.0 | e  | 33 07.4 |      | 2910  | 26.2 |
| Uinta Basin    | eP | 33      | 33.6 |    |         |      | 3600  | 33.2 |
| Kevo           | eP | 35      | 29   |    |         |      | 5290  | 47.6 |
| Kiruna         | IP |         | 43.2 |    |         |      |       |      |
| Sodankylä      | eP |         | 4 9  |    |         |      |       |      |
| Gulu           | eP | 36      | 04   |    |         |      |       |      |
| Huancayo       | eP | 40      | 11.2 |    |         |      | 10455 | 94.1 |

VIII. 24 janvier  
Ile du Sud (Nouvelle Zélande)

H = 05<sup>h</sup>15<sup>m</sup>0<sup>s</sup>. M = 5.0 (Wellington)

|            |    |          |      |      |          |
|------------|----|----------|------|------|----------|
| Wellington | eP | 05 16 12 |      | e(S) | 05 16 47 |
| Monowai    | eP |          | 29   | eS   | 17 13    |
| Karapiro   | eP |          | 58   | eS   | 18 07    |
| Gisborne   | eP | 17 12    |      |      |          |
| Onerahi    | eP |          | 41   |      |          |
| Canberra   | eP | 20 11    |      | eT   | 36 45    |
| Brisbane   | eP |          | 37.5 | e(S) | 24 51    |
| Wairamunga | eP | 23 03.5  |      |      |          |

IX. 24 janvier  
Région de la Nouvelle Bretagne

H = 06<sup>h</sup>10<sup>m</sup>44<sup>s</sup>. M = 4.6 (Rabaul)

|              |    |          |       |      |            |
|--------------|----|----------|-------|------|------------|
| Rabaul       | eP | 06 11 25 |       | IS   | 06 11 56.0 |
| Keravat      | eP |          | 25.5D | eS   | 55.5       |
| Rabaulakaia  | IP |          | 28.8D |      |            |
| Port Moresby | eP | 12 45    |       | e(S) | 14(15)     |
| Honiara      | eS | 13 54    |       |      |            |
| Brisbane     | e  | 15 34.5  |       |      |            |

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Haute Silésie

|        |   |            |
|--------|---|------------|
| Bytom  | e | 07 01 18.9 |
| Zabrze | e | 20.6       |

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Dabrova e 07 01 22.0  
 Niedzica ePg 44.9 ei 07 02 04.9  
 Krakow eiSg 46.5

inscrit à Raciborz.

XI. 24 Janvier  
 Sicile

Réplique : H = 07h 12<sup>mn</sup>(00)<sup>s</sup> M = 3.40 (Messina)

Messina e 07 12 53.4 i 07 13 17.3  
 Messina ING e 57 e 39  
 La Mourre eP 14 02.1  
 St Paul en Forêt ep 03.4  
 Lorgues eP 04.9

XII. 24 Janvier  
 Région de la Nouvelle Bretagne

5°35' 151°4'E h = 99km H = 07h 14<sup>mn</sup>54.8<sup>s</sup> (CGS)  
 H = 07h 14<sup>mn</sup>58<sup>s</sup> (Rabaul)

M = 4.9 (Eureka), 4.8 (Rabaul, Uinta Basin), 4.7  
 (CGS), 4.5 (Blue M).

|                 |                   |                       |                    |            |       |       |
|-----------------|-------------------|-----------------------|--------------------|------------|-------|-------|
| Keravat         | 1P                | 07 15 18 <sup>D</sup> | 1S                 | 07 15 33.5 |       |       |
| Rabalanakaia    | 1P                | 19.5 <sup>D</sup>     |                    |            |       |       |
| Wanliss Street  | 1P                | 19.5 <sup>D</sup>     |                    |            |       |       |
| Rabaul          | 1P                | 19.1 <sup>D</sup>     | 1S                 | 36         | 145   | 1.3   |
| Esa'Ala         | 1P                | 16 02.8               |                    |            |       |       |
| Port Moresby    | 1P                | 22.1 <sup>D</sup>     | 1S                 | 17 29      |       |       |
| Honiara         | eP                | 17(07)                | eS                 | 18(54)     | 1045  | 9.4   |
| Charters Towers | 1P                | 18 34.9               |                    |            | 1720  | 15.5  |
| Luganville      | 1P                | 19 06.5 <sup>C</sup>  |                    |            | 2055  | 18.5  |
| Guam            | eP                | 21.3                  |                    |            | 2200  | 19.8  |
| Port Vila       | 1P                | 29.2 <sup>C</sup>     |                    |            | 2290  | 20.6  |
| Darwin          | eP                | 37.0                  | eS                 | 23 27.0    | 2390  | 21.5  |
| Brisbane        | 1P                | 43                    |                    |            | 2445  | 22.0  |
| Warramunga      | eP                | 43.5 <sup>C</sup>     | e                  | 42.5       | 2455  | 22.1  |
| Adelaide        | 1P                | 21 22.4 <sup>D</sup>  |                    |            |       |       |
| Kalgoorlie      | 1P                | 22 03.5 <sup>C</sup>  |                    |            | 4210  | 37.9  |
| Mundaring       | eP                | 40.0 <sup>C</sup>     |                    |            | 4700  | 42.3  |
| Shillong        | 1P                | 27 06 <sup>D</sup>    |                    |            |       |       |
| New Delhi       | i                 | 26 48                 |                    |            |       |       |
| Poona           | eP                | 54                    |                    |            |       |       |
| College         | eP                | 27 08.0               |                    |            | 9210  | 82.9  |
| Quetta          | eP                | 34.5 <sup>D</sup>     |                    |            | 9770  | 87.9  |
| Woody           | P                 | 59                    | 1                  | 28 23      | 10310 | 92.8  |
| Blue M.         | eP                | 28 05.9               |                    |            | 10510 | 94.6  |
| Eureka          | 1P                | 10.8                  |                    |            | 10600 | 95.4  |
| Uinta Basin     | eP                | 32.1                  |                    |            | 11145 | 100.3 |
| Tonto Forest    | e(DP)             | 56.8                  |                    |            |       |       |
| Bangui          | ePKP <sub>1</sub> | 34 01.1 <sup>C</sup>  | iDPKP <sub>1</sub> | 34 29.1    |       |       |
| La Paz          | ePKP              | 02                    |                    |            |       |       |
| Ifrane          | PKP               | 20.5                  |                    |            | 16055 | 144.5 |

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|          |     |                         |       |        |
|----------|-----|-------------------------|-------|--------|
| Rabat Z. | PKP | 07 34 22.5 <sup>D</sup> | 16120 | 145° 1 |
| Averroes | PKP | 24.5                    | 16210 | 145° 3 |
| Lamto    | PKP | 51.0                    | 17400 | 156° 6 |

inscrit à Bokaro, Wichita M.

XIII. 24 janvier

Au large de la Préfecture de Kyoto (Japon)

35° 51' N. 134° 54' E h = 10 km H = 07h 51<sup>mn</sup> 38.5<sup>s</sup>

M = 4.0 (JMA)

|            |    |            |    |            |     |     |
|------------|----|------------|----|------------|-----|-----|
| Toyooka    | P  | 07 51 46.3 | 1S | 07 51 51.5 | 36  | 0.3 |
| Tsuruga    | EP | 53.2       | ES | 52 10.2    | 108 | 1.0 |
| Abiyama    | 1P | 52 00.3    |    |            |     |     |
| Kyoto      | EP | 01.0       | 1S | 14.0       | 120 | 1.1 |
| Hikone     | EP | 02.8       | S  | 19.0       | 138 | 1.2 |
| Okayama    | P  | 05.4       | 1S | 23.4       | 158 | 1.4 |
| Nara       | EP | 05.9       | ES | 23.7       | 155 | 1.4 |
| Osaka      | X  | 21.4       | S  | 25.8       | 145 | 1.3 |
| Matsushiro | 1P | 31         | S  | 53 12      | 307 | 2.8 |

XIV. 24 janvier

Mer Rouge

18° 3/4 N. 39° 1/2 E

H = 07h 51<sup>mn</sup> 44<sup>s</sup> (BCIS)

|             |    |                    |   |            |  |  |
|-------------|----|--------------------|---|------------|--|--|
| Addis Ababa | EP | 07 54 06           |   |            |  |  |
| Ksara       | 1P | 55 29              | M | 08 01 20   |  |  |
| Chiraz      | EP | 30.0               |   |            |  |  |
| Keimanshah  | EP | (44)               |   |            |  |  |
| Téhéran     | EP | 58 19              |   |            |  |  |
| Bangui      | 1P | 57 05.6            | 1 | 08 04 06.3 |  |  |
| Quetta      | EP | 30.3 <sup>C</sup>  |   |            |  |  |
| Tamanrasset | 1P | 58 11 <sup>C</sup> |   |            |  |  |
| Kajaani     | EP | 08 00 06           |   |            |  |  |
| Qulu        | EP | 15                 |   |            |  |  |
| Sodankylae  | EP | 26                 |   |            |  |  |
| Kiruna      | 1P | 42.0               |   |            |  |  |

XV. 24 janvier

Région de la Nouvelle Bretagne

5° 3' S. 149° 5' E h = 97 km H = 09h 30<sup>mn</sup> 49<sup>s</sup> (CGS)

M = 5.4 (Honiara, CGS)

|                 |    |                    |    |          |      |      |
|-----------------|----|--------------------|----|----------|------|------|
| Keravat         | EP | 09 31 36           |    |          | 330  | 3.0  |
| Rabalankala     | 1P | 39.1 <sup>D</sup>  |    |          | 355  | 3.2  |
| Wanliss Street  | 1P | 39.1 <sup>D</sup>  |    |          | 355  | 3.2  |
| Rabaul          | 1P | 39.5 <sup>D</sup>  | 1S | 09 32 16 | 355  | 3.2  |
| Esa'Ala         | 1P | 49.2               |    |          |      |      |
| Port Moresby    | 1P | 52.6               | ES | 39       | 470  | 4.2  |
| Goroka          | EP | 55.5               |    |          | 445  | 4.0  |
| Tabele          | EP | 32 03 <sup>D</sup> |    |          |      |      |
| Honiara         | EP | 33 24.2            |    |          | 1220 | 11.0 |
| Charters Towers | EP | 34 11              |    |          | 1610 | 14.5 |
| Darwin          | EP | 35 11.0            | ES | 38 41.0  | 2170 | 19.5 |

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|            |       |       |        |   |              |       |       |
|------------|-------|-------|--------|---|--------------|-------|-------|
| Luganville | iP    | 09 31 | 15.4D  |   |              | 2200  | 19.8  |
| Giam       | ep    |       | 16.4   |   |              | 2200  | 19.8  |
| Warramunga | iP    | 35    | 20.5C5 | e | 0 9 33 56° 5 | 2220  | 20.0  |
| Komac      | iP    |       | 21.7C  |   |              | 2230  | 20.5  |
| Brisbane   | iP    |       | 34     |   |              | 2400  | 21.6  |
| Port Vila  | iP    |       | 35.7D  |   |              | 2430  | 21.9  |
| Quannah    | iP    |       | 45.6C  |   |              | 2520  | 22.7  |
| Noméa      | iP    |       | 48.7C  |   |              | 2580  | 23.2  |
| Canberra   | iP    | 36    | 45.6   | e | 42 49.0      | 3255  | 29.3  |
| Adelaide   | ep    |       | 57     |   |              |       |       |
| Toolangi   | iP    | 37    | 07.5C  |   |              | 3530  | 31.8  |
| Kalgoorlie | iP    |       | 44.9C  |   |              |       |       |
| Afiama     | ep    | 38    | 08     |   |              | 4330  | 39.0  |
| Mundaring  | iP    |       | 21.7D  |   |              | 4500  | 40.5  |
| Séoul      | ep    | 39    | 19.7   |   |              | 5330  | 48.0  |
| Shillong   | ep    | 41    | 15.0   |   |              | 7110  | 64.0  |
| Mirny      | ep    | 42    | 02.0   |   |              | 7970  | 71.7  |
| College    | ep    | 43    | 12.0   |   |              | 9430  | 84.1  |
| Byrd       | ep    |       | 15.1   | e | 43 34.4      | 9380  | 84.4  |
| Eureka     | ep    | 44    | 16.5   |   |              | 10800 | 97.2  |
| La Paz     | (PKP) | 49    | 51.0   |   |              | 15190 | 136.7 |
| Penas      | (PLP) |       | 52.5   |   |              | 15170 | 136.5 |
| Averroes   | (PKP) | 50    | 37.5   |   |              | 16145 | 145.3 |
| Kocan Boka | PKP   |       | 46.3   |   |              | 17145 | 154.3 |

inscrit à Nat. Uni. Mexico, Wichita M.

XVI. 24 janvier  
Mer Rouge

18°8N, 39°4E

h = 33km

H = 10h03<sup>m</sup>49<sup>s</sup> (BCIS)

|             |      |          |       |   |            |      |      |
|-------------|------|----------|-------|---|------------|------|------|
| Addis Ababa | ep   | 10 06 11 |       |   |            | 1090 | 9.8  |
| Ksara       | i(P) | 07 33    |       |   |            |      |      |
| Chiraz      | ep   |          | 35    |   |            | 1820 | 16.4 |
| Kermanshah  | e(P) |          | 56    |   |            |      |      |
| Téhéran     | ep   | 08 22    |       |   |            | 2210 | 19.9 |
| Eutare      | iP   |          | 54.2  |   |            | 2600 | 23.4 |
| Bangui      | iP   | 09 08.5  |       | 1 | 10 16 45.3 | 2770 | 24.9 |
| Quetta      | ep   |          | 34. D |   |            | 3045 | 27.4 |
| Tamanrasset | e    | 10 15 C  |       |   |            | 3435 | 31.9 |
| Kajaani     | ep   | 12 08    |       |   |            | 5100 | 45.9 |
| Oulu        | ep   |          | 19    |   |            | 5235 | 47.1 |
| Kiruna      | iP   |          | 45.5C |   |            | 5600 | 50.4 |

XII. 24 janvier  
Witwatersrand

26°7S, 26°6E

H = 10h27<sup>m</sup>12<sup>s</sup>

M = 3.4 (Bulawayo)

|          |       |          |  |  |  |              |
|----------|-------|----------|--|--|--|--------------|
| Bulawayo | epn   | 10 28 51 |  |  |  | 15g 10 30 42 |
| Karoi    | epn   | 29 37    |  |  |  | eSgSg 32 29  |
| Childka  | eSgSg | 34 05    |  |  |  |              |

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10° 2S, 34° 3E

H = 07h16<sup>mn</sup>19<sup>s</sup>  
M = 3.5 (Bulawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Chileka     | ePn | 07 17 39 | eSn | 07 18 38 |
| Broken Hill | ePn | 18 04    | iSg | 19 58    |
| Karoi       | eSg | 20 18    | eL  | 20 26    |
| Bulawayo    | eSg | 22 06    |     |          |

VII. 25 janvier  
Nouvelles Hébrides (île Vaté)

18° 5S, 168° 4E

H = 08h13<sup>mn</sup>53<sup>s</sup>  
M = 3.8 (Nouméa)

|            |     |             |    |          |
|------------|-----|-------------|----|----------|
| Port Vila  | iP  | 08 14 06.3C | iS | 08 14 18 |
| Ouanaham   | iP  | 31.8D       | iS | 15 00    |
| Luganville | eiP | 39.1        | i  | 10       |
| Nouméa     | iP  | 56.2(D)     | iS | 43       |
| Koumac     | iP  | 59.3C       | iS | 50       |

VIII. 25 janvier  
Mexique

17° 08'N, 99° 57W

H = 08h20<sup>mn</sup>01<sup>s</sup> (Tacubaya)

|                   |      |          |    |          |     |     |
|-------------------|------|----------|----|----------|-----|-----|
| Nat. Univ. Mexico | iP   | 08 20 40 | iS | 08 21 09 | 260 | 2.3 |
| Presa Infiernillo | iP   | 41       | iS | 09       | 2.0 | 2.2 |
| Tacubaya          | iPn  | 41       |    |          | 265 | 2.4 |
| Vista Hermosa     | iP   | 51       |    |          | 340 | 3.1 |
| Presa Benito J.   | i(P) | 21 13.8  | iS | 22 05    | 490 | 4.4 |

IX. 25 janvier  
Pakistan occidental

29° 5N, 66° 4E

H = 08h40<sup>mn</sup>20<sup>s</sup> (New Dehli)

|           |    |          |    |          |      |     |
|-----------|----|----------|----|----------|------|-----|
| New Dehli | eP | 08 42 40 | iS | 08 44 28 | 1055 | 9.5 |
| Poona     | eP | 49       |    |          |      |     |
| Bombay    | e  | 44 51    |    |          |      |     |
| Shilling  | eP | 45 24    |    |          |      |     |

X. 25 janvier  
Turquie

40° 1/4N, 28° E

H = 08h41.3<sup>mn</sup> (BCIS)

40° 1/2N, 27° 3/4E

H = 08.41<sup>mn</sup>13<sup>s</sup> (Athènes)

|                |      |            |      |            |     |     |
|----------------|------|------------|------|------------|-----|-----|
| Istanbul Uti   | iPg  | 08 41 33.8 | iSg  | 08 41 47.1 |     |     |
| Istanbul Kand. | iP   | 35.1       |      |            |     |     |
| Paraskevi      | eiPn | 45         | eiSn | 42 09.8    | 200 | 1.8 |
| Rhodes         | eiPn | 42 22.2C   |      |            | 485 | 4.4 |
| Sofia          | e(P) | 33.1       | eS   | 43 04.4    |     |     |
| Vrincioaia     | P    | 39D        |      |            |     |     |
| Campulung      | e    | 43 20      | ei   | 51         |     |     |
| Bucuresti      | i    | 24         | e    | 44 29      |     |     |
| Athènes        | eSn  | (43)04.4   | eSg  | (43)18.4   | 450 | 4.1 |
| Focsani        | e    | 57         |      |            |     |     |
| Jasi           | e    | 44 02      |      |            |     |     |

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Au large de la cote sud du Mexique

15° 50' N, 96° 40' W H = 08<sup>h</sup>41<sup>m</sup>41<sup>s</sup> (Tacubaya)

|                   |    |            |    |            |     |     |
|-------------------|----|------------|----|------------|-----|-----|
| Presa Benito J.   | eP | 08 42 04.8 | 1S | 08 42 21.4 | 146 | 1.3 |
| Vista Hermosa     | 1P | 06         |    |            | 150 | 1.4 |
| Nat. Univ. Mexico | e  | 43 05      |    |            | 470 | 4.2 |
| Presa Infiernillo | 1P | 10         | 1S | 44 24      | 655 | 5.9 |

XII. 25 janvier

Iles Kermadec

|                 |      |          |  |  |  |  |
|-----------------|------|----------|--|--|--|--|
| Raoul Island    | 1P   | 09 15 25 |  |  |  |  |
| Brisbane        | e    | 20 46.5  |  |  |  |  |
| Charters Towers | e(P) | 21 56    |  |  |  |  |
| Warramunga      | eP   | 23 2.0   |  |  |  |  |
| South Pole      | eP   | 25 18    |  |  |  |  |
| Nurmijaervi     | 1PKP | 34 43.2D |  |  |  |  |
| Sodankylae      | ePKP | 53       |  |  |  |  |

XIII. 25 janvier

Sicile

|                    |           |   |
|--------------------|-----------|---|
| 37° 8' N, 13° 2' E | h = 33 km | H = 09 <sup>h</sup> 56 <sup>m</sup> 48.7 <sup>s</sup> (CGS) |
| 37° 7' N, 13° 1' E |           | H = 09 <sup>h</sup> 56 <sup>m</sup> 47 <sup>s</sup> (BCIS)  |
| 37° 4' N, 12° 4' E |           | H = 09 <sup>h</sup> 56 <sup>m</sup> 39 <sup>s</sup> (URSS)  |

Nouveaux dégats et victimes dans la région dévastée par le séisme du 15 janvier 1968.

M = 6.5 (Stuttgart), 6.3 (Bangui), 5.8 (Uppsala, Kiruna), 5.7 (Godhavn, Roma, Collm), 5.8 (Moxa, Lvov, Addis Ababa), 5 1/2 - 5 3/4 (Golden), 5.5 (Strasbourg, Krakow, URSS), 5.4 (Praha, Pruhonice), 5.3 (San Juan), 5.2 (Athènes, Nurmijaervi), 5.1 (CGS, Wichita M), 5.0 (Kajaani, Dugway, Uinta Basin), 4.9 (Cumberland Pl, Blue M), 4.5 (College, Tonto Forest), 4.3 (Eureka).

|                  |      |          |     |            |     |     |
|------------------|------|----------|-----|------------|-----|-----|
| Messina          | 1Pn  | 09 57 22 | 1Sn | 09 57 48.4 | 210 | 1.9 |
| Messina IMG      | 1Pn  | 22.8     | 1Sn | 48.6       | 210 | 1.9 |
| Reggio Calabria  | ePn  | 23       | 1Sn | 53.5       | 215 | 3.0 |
| Roma             | 1Pn  | 58C      | 1   | 59 46      | 455 | 4.1 |
| Cuglieri         | ePn  | 59       | eSn | 58 47      | 480 | 4.3 |
| L'Aquila         | 1Pn  | 59       | 1   | 59 45      | 505 | 4.3 |
| Taranto          | 1(P) | 58 08    |     |            | 460 | 4.1 |
| Valsamata        | e1P  | 16.6D    | e1S | 17.2       | 650 | 5.8 |
| Sétif            | 1P   | 19       | 1   | 58 21.3    | 720 | 6.5 |
| Bologna          | ePn  | 33       |     |            | 760 | 6.8 |
| La Mourre        | 1P   | 34.9     |     |            | 835 | 7.5 |
| St Paul en Foret | 1P   | 36.1     |     |            | 845 | 7.6 |

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|                       |      |       |                   |       |       |         |      |      |
|-----------------------|------|-------|-------------------|-------|-------|---------|------|------|
| Monaco                | iPn  | 09 58 | 36.3              | iSn   | 09 59 | 52.5    | 820  | 7.4  |
| Genes                 | eP   |       | 36.3              |       |       |         | 815  | 7.4  |
| Lorgues               | iP   |       | 37.4              |       |       |         | 855  | 7.9  |
| Sant Anna di valdieri | eP   |       | 40.8              | eS    | 10 00 | 08.2    | 875  | 7.9  |
| Isola                 | iP   |       | 41.4              |       |       |         | 880  | 7.9  |
| Pavia                 | ePn  |       | 43                | eS    |       | 58      | 885  | 8.0  |
| Trieste               | iPn  |       | 44 <sup>D</sup>   | iS    |       | 10      | 880  | 7.9  |
| Athènes               | ePn  |       | 48.4              | eS    |       | 28.5    | 920  | 8.3  |
| Ljubljana             | eipn |       | 50.5              | iSn   |       | 24.1    | 920  | 8.3  |
| Padova                | e    |       | 52.5              | e(Sn) |       | 09      | 850  | 8.6  |
| Lans Evillard         | eip  |       | 56.9              | iS    |       | 38.9    | 830  | 8.8  |
| Monteynard            | eip  |       | 59                | ei    | 09 59 | 03      | 1010 | 9.1  |
| Sofia                 | eP   | 59    | 01.4              | eS    | 10 00 | 58.8    | 1015 | 9.2  |
| Roselend              | eP   |       | 03                | eis   |       | 43      | 1030 | 9.3  |
| Tortosa               | iP   |       | 15                | iS    |       | 01 2.3  | 1145 | 10.3 |
| Srobarova             | eip  |       | 16                | ei    |       | 00 12   | 1185 | 10.8 |
| Voughans              | eip  |       | 16.4              | iS    |       | 01 27.5 | 1140 | 10.3 |
| Bratislava            | iP   |       | 16.8              | i     | 09 59 | 30.2    | 1195 | 10.8 |
| Basel                 | eP   |       | 19                |       |       |         | 1175 | 10.6 |
| Furstenfeldbruck      | iP   |       | 19                |       |       |         | 1155 | 10.4 |
| Clermont              | ePn  |       | 23                | iSg   | 02    | 41.5    | 1215 | 11.0 |
| Wien                  | iPn  |       | 24 <sup>D</sup>   | eisn  | 01    | 24      | 1190 | 10.7 |
| Wien Kobenzl          | iPn  |       | 24                |       |       |         | 1190 | 10.8 |
| Besançon              | eipP |       | 24.5              | ei    | 00    | 22.3    | 1205 | 10.8 |
| Ballon de Servance    | eip  |       | 28.7              |       |       |         | 1230 | 11.1 |
| Haudompré             | iP   |       | 30                |       |       |         | 1260 | 11.4 |
| Budapest              | e(P) |       | 30                |       |       |         | 1180 | 10.8 |
| Kasperské Hory        | iP   |       | 30                |       |       |         | 1255 | 11.3 |
| Stuttgart             | eP   |       | 30.1              |       |       |         | 1255 | 11.3 |
| Buhlerhohe            | eP   |       | 31                |       |       |         | 1275 | 11.5 |
| Champ du Feu          | iP   |       | 31                |       |       |         | 1270 | 11.4 |
| Les Buteaux           | eP   |       | 31.2              |       |       |         | 1270 | 11.4 |
| Strasbourg            | eP   |       | 32.5              |       |       |         | 1280 | 11.5 |
| Praha                 | e(P) |       | 33                |       |       |         | 1365 | 12.3 |
| St Saulge             | iP   |       | 34.2              |       |       |         | 1300 | 11.7 |
| Sommée Lormes         | iP   |       | 34.3              |       |       |         | 1300 | 11.7 |
| Campulung             | eP   |       | 35                |       |       |         | 1300 | 11.7 |
| Toulx Ste Croix       | iP   |       | 35.8              |       |       |         | 1305 | 11.8 |
| Bagnères              | eipP |       | 37                |       |       |         | 1250 | 11.2 |
| Bucuresti             | eP   |       | 37                |       |       |         | 1305 | 11.8 |
| Erlangen              | eP   |       | 37.8 <sup>C</sup> |       |       |         | 1330 | 12.0 |
| Garchy                | iP   |       | 38.8              | i     | 59    | 45.6    | 1340 | 12.1 |
| Karlsruhe             | iP   |       | 43.2 <sup>D</sup> | eL    | 03    | 17      | 1305 | 11.7 |
| Almería               | eP   |       | 43.5              | ePP   | 59    | 54.5    | 1390 | 12.5 |
| Istanbul Uti          | ePn  |       | 44                |       |       |         | 1400 | 12.6 |
| Moxa                  | eP   |       | 49 <sup>D</sup>   | eS    | 10 02 | 10      | 1435 | 12.9 |
| Istanbul Kand.        | eP   |       | 49.1              |       |       |         | 1400 | 12.6 |
| Gujgorod              | iP   |       | 50                |       |       |         | 1410 | 12.7 |
| Rybnik                | eP   |       | 51                | eL    | 10 05 | -       | 1430 | 12.9 |
| Niedzica              | eP   |       | 52 <sup>(C)</sup> | ePP   | 00    | 04      | 1410 | 12.8 |
| Taunus                | eP   |       | 52                |       |       |         | 1430 | 12.9 |
| Raciborz              | eP   |       | 53                | ePP   |       | 08      | 1420 | 12.8 |
| Luxembourg            | P    |       | 55                | S     | 02    | 06      | 1420 | 12.8 |
| Vrincioaia            | P    |       | 57                |       |       |         | 1435 | 12.9 |

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|                   |               |                 |     |           |                 |                 |
|-------------------|---------------|-----------------|-----|-----------|-----------------|-----------------|
| Chorzow           | eP            | 09 59 58        | eL  | 10 05·2 - | 1460            | 13·2            |
| Krakow            | eP            | 58              | eL  | 03·7 -    | 1465            | 13·2            |
| Collm             | eP            | 58              | esp | 00 04·4   | 1500            | 13·5            |
| Toledo            | iP            | 59·1            | iS  | 02 32     | 1510            | 13·8            |
| Bensberg          | eP            | 10 00 04        | e   | 00 28     | 1535            | 13·8            |
| Focsani           | (P)           | 09              | e   | 20        | 1455            | 13·1            |
| St Sauveur        | iP            | 11·9            |     |           | 1610            | 14·5            |
| Le Pertre         | iP            | 13·5            |     |           | 1620            | 14·7            |
| Folinière         | iP            | 13·9            |     |           | 1645            | 14·8            |
| Jasi              | P             | 14              | e   | 34        | 1570            | 14·1            |
| Gorron            | iP            | 15              |     |           | 1635            | 14·7            |
| Uccle             | P             | 16              | S   | 02 44     | 1600            | 14·4            |
| Lvw               | eP            | 17              | eS  | 03 01     | 1590            | 14·3            |
| Kichinev          | iP            | 17D             | iS  | 09        | 1640            | 14·8            |
| Ifrane            | P             | 24              |     |           | 1720            | 15·5            |
| De Bilt           | eP            | 30              |     |           | 1710            | 15·4            |
| Witteveen         | eP            | 33              |     |           | 1745            | 15·7            |
| Tamanrasset       | iP            | 36D             |     |           | 1820            | 16·4            |
| Rabac Zaers       | P             | 38              |     |           | 1855            | 16·7            |
| Helwan            | iP            | 43C             | iS  | 04 00     | 1890            | 17·0            |
| Rabat             | eP            | 43              |     |           | 1855            | 16·8            |
| Averroes          | eP            | 49              |     |           | 1935            | 17·4            |
| Simferopol        | eP            | 49·7 D          |     |           | 1915            | 17·2            |
| Lisboa            | P             | 56·9            | LR  | 10 05·3 - | 1955            | 17·6            |
| Kobenhavn         | iP            | 01 01·6D        | iS  | 04 17     | 1990            | 17·9            |
| Karlskrona        | iP            | 02·2            |     |           | 2050            | 18·4            |
| Jérusalem         | iP            | 12·5            | iS  | 48        | 2110            | 19·0            |
| Ksara             | iP            | 14              | iS  | 50        | 2090            | 18·8            |
| Goteborg          | iP            | 21              |     |           | 2215            | 19·9            |
| Durham            | iPn           | 22              | iS  | 05 02     | 2195            | 19·7            |
| Uppsala           | iP            | 43              | i   | 01 48·5   | 2465            | 22·2            |
| Valentia          | P             | 44              | S   | 05 32     | 2410            | 21·7            |
| Lillehammer       | iP            | 54·6            |     |           | 2590            | 23·3            |
| Bakouriani        | eP            | 58·9            | iS  | 06 20     | 2620            | 23·6            |
| Poti              | eP            | 59              | eS  | 14        |                 |                 |
| Nurmi jaervi      | iP            | 02 01           | eS  | 16        | 2645            | 23·8            |
| Moskva            | eP            | 05              | S   | 28        | 2700            | 24·3            |
| Tbilisi           | P             | 08              | S   | 36        | 2725            | 24·5            |
| Kirovabad         | eP            | 19              |     |           | 2860            | 25·7            |
| Skalstugan        | iP            | 19·7            |     |           | 2870            | 25·8            |
| Goris             | iP            | 22              |     |           | 2875            | 25·9            |
| Uméa              | iP            | 23              | iS  | 57        | 2930            | 26·4            |
| Tabriz            | eP            | 25              | e   | 58        | 2890            | 26·0            |
| Ténérife          | iP            | 26·8            |     |           | 2920            | 26·3            |
| Kermanshah        | eP            | 34              |     |           | 3060            | 27·5            |
| Kajaani           | iP            | 38·5            | i   | 02 49·5   | 3080            | 27·3            |
| Oulu              | eP            | 42              |     |           | 3150            | 28·3            |
| Kiruna            | iP            | 58·3            | iD  | 07 54     | 3375            | 30·4            |
| Téhéran           | eP            | 03 00           |     |           | 3390            | 30·5            |
| <del>Kiruna</del> | <del>iP</del> | <del>00·8</del> |     |           | <del>3365</del> | <del>30·2</del> |
| Sodankylae        | eP            | 02              |     |           | 3400            | 30·8            |
| Adatity           | iP            | 19D             |     |           | 3540            | 31·9            |



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|                     |      |                       |      |          |      |       |
|---------------------|------|-----------------------|------|----------|------|-------|
| Bangui              | iP   | 10 03 26              |      |          | 3735 | 33° 8 |
| Chiraz              | P    | 28° 2                 |      |          | 3745 | 33° 8 |
| Kizyl Arvat         | iP   | 30 <sup>C</sup>       |      |          | 3720 | 33° 5 |
| Moca                | P    | 37° 1                 |      |          | 3845 | 34° 6 |
| Vannovskaya         | P    | 41                    |      |          | 3910 | 35° 2 |
| Lamto               | P    | 43° 3                 |      |          | 3955 | 35° 8 |
| M <sup>i</sup> Bour | eP   | 46                    | eS   | 10 09 23 | 3940 | 35° 5 |
| Sverdlovsk          | eP   | 54                    |      |          | 4050 | 36° 4 |
| Addis Abaca         | eP   | 57                    | e    | 14 20    | 4090 | 36° 8 |
| Mashad              | eP   | 04 10                 |      |          | 4080 | 36° 7 |
| Samarkand           | eP   | 38                    |      |          | 4610 | 41° 5 |
| Butare              | eIP  | 47° 1                 |      |          | 4780 | 43° 0 |
| Tachkent            | eP   | 49                    |      |          | 4750 | 42° 8 |
| Douchambé           | eP   | 51                    | eS   | 11 24    | 4790 | 43° 1 |
| Garm                | eP   | 56                    |      |          | 4905 | 44° 1 |
| Quetta              | eP   | 05 00° 5 <sup>C</sup> |      |          | 4965 | 44° 8 |
| Nairobi             | iP   | 05° 7                 |      |          | 4955 | 44° 6 |
| Kheis               | eP   | 13                    | eS   | 12 01    | 5115 | 46° 0 |
| Frounze             | eP   | 15                    |      |          | 5130 | 46° 2 |
| Warsak              | iP   | 17° 2                 |      |          | 5180 | 46° 8 |
| Godhavn             | iP   | 18° 1                 | iS   | 12       | 5220 | 47° 0 |
| Talgar              | eP   | 25                    | eS   | 23       | 5335 | 48° 0 |
| Frobisher           | eP   | 06 04                 |      |          | 5920 | 53° 3 |
| New Dehli           | eP   | 06                    | eS   | 13 36    | 5935 | 53° 4 |
| Broken Hill         | eP   | 12                    |      |          | 5990 | 53° 9 |
| Poona               | eP   | 27                    |      |          | 6205 | 55° 9 |
| Karoi               | eP   | 29                    |      |          | 6280 | 56° 5 |
| Chileka             | eP   | 37                    |      |          | 6335 | 57° 0 |
| Resolute            | eP   | 44° 8 <sup>C</sup>    |      |          | 6500 | 58° 5 |
| Bulawayo            | eP   | 50                    |      |          | 6600 | 59° 4 |
| Windhoek            | iP   | 55° 1                 |      |          | 6685 | 60° 2 |
| Esen Boulak         | e(P) | 07 00                 |      |          | 6615 | 59° 5 |
| Berlin              | eP   | 02                    |      |          | 6800 | 61° 2 |
| Brébeuf             | iP   | 10° 3                 |      |          | 6920 | 62° 3 |
| Weston              | eP   | 11                    |      |          | 6920 | 62° 3 |
| Bokaro              | eP   | 13                    |      |          | 6940 | 62° 5 |
| Bodajbo             | eP   | 20                    |      |          | 7135 | 64° 2 |
| Ottawa              | eP   | 20                    |      |          | 7080 | 63° 7 |
| Kodaikanal          | iP   | 21 <sup>D</sup>       |      |          | 7055 | 63° 5 |
| Madras              | eP   | 26                    | e    | 10 16 55 | 7110 | 64° 0 |
| Oulan Bator         | eP   | 33                    |      |          | 7260 | 65° 3 |
| Shillong            | eP   | 36° 5                 |      |          | 7355 | 66° 2 |
| Washington          | eP   | 46                    |      |          | 7520 | 67° 7 |
| Yakoutsk            | eP   | 50                    |      |          | 7580 | 68° 2 |
| Chittagong          | eP   | 51                    |      |          | 7550 | 67° 9 |
| Barrow              | eP   | 08 05° 9              |      |          | 7890 | 71° 0 |
| San Juan            | eP   | 06° 5                 | e    | 08 20    | 7880 | 70° 9 |
| Ponta Delgada       | S    | 12                    | LQ   | 09 48    | 3395 | 30° 6 |
| Cumberland Pl.      | eP   | 29° 7                 |      |          | 8355 | 75° 2 |
| Caracas             | eIP  | 36                    | eIPS | 18 44    | 8430 | 75° 9 |
| Pedro Dome          | eP   | 38° 5                 |      |          | 8490 | 76° 4 |
| College             | eP   | 40                    |      |          | 8500 | 76° 5 |
| Gilmore Creek       | eP   | 41° 4                 |      |          | 8490 | 76° 4 |

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|                    |     |          |                   |          |       |       |
|--------------------|-----|----------|-------------------|----------|-------|-------|
| Edmonton           | eP  | 10 08 46 |                   |          | 8690  | 78.2  |
| Black Rapids       | eP  | 50       |                   |          | 8635  | 77.7  |
| Manhattan          | eP  | 56       |                   |          | 8880  | 79.9  |
| Sparrevohn         | eP  | 09 07    |                   |          | 9000  | 81.0  |
| Hungry Horse       | eP  | 08.5     |                   |          | 9145  | 82.3  |
| Bombay             | ePP | 13       |                   |          | 6095  | 54.8  |
| Newport            | eP  | 15       |                   |          | 9290  | 83.6  |
| Butte              | eP  | 15.3     |                   |          | 9285  | 83.4  |
| Nordman            | eP  | 17       |                   |          | 9245  | 83.2  |
| Wichita M.         | eP  | 17.5     | es                | 10 19 44 | 9345  | 84.1  |
| Spokane            | eP  | 18       |                   |          | 9345  | 84.1  |
| Golden             | eP  | 20       |                   |          | 9390  | 84.5  |
| Youjno Sakhalinske | eP  | 25       |                   |          | 9360  | 84.2  |
| Blue M.            | eP  | 28.3     |                   |          | 9600  | 88.4  |
| Uinta Basin        | eP  | 29.6     | es                | 10 20 00 | 9590  | 88.3  |
| Salt Lake City     | eP  | 32.7     |                   |          | 9680  | 88.1  |
| Dugway             | eP  | 38       |                   |          | 9730  | 88.0  |
| Albuquerque        | eP  | 41       |                   |          | 9835  | 88.5  |
| Eureka             | iP  | 48.2     |                   |          | 10010 | 90.1  |
| La Palma           | eP  | 52       |                   |          | 10100 | 90.9  |
| Tonto Forest       | eP  | 55.2     | esKS <sub>1</sub> | 31       | 10190 | 91.7  |
| Mineral            | eP  | 58.8C    |                   |          | 10210 | 91.9  |
| Tucson             | eP  | 10 02.2  |                   |          | 10320 | 92.9  |
| Penas              | eP  | 02.5     | esKS              | 46       | 10380 | 93.4  |
| Jamestown          | eP  | 03.2C    |                   |          | 10370 | 93.4  |
| La Paz             | eP  | 05.8     |                   |          | 10365 | 93.3  |
| Goldstone          | P   | 07       |                   |          | 10420 | 93.8  |
| Kevo               | eSS | 28       |                   |          | 3650  | 32.9  |
| South Pole         | PKP | 15 51.4  |                   |          | 14180 | 127.6 |
| Charters Towers    | PKP | 16 09    |                   |          | 15080 | 135.8 |
| Canberra           | PLP | 12       |                   |          | 18065 | 144.8 |
| Brisbane           | PKP | 23.5     |                   |          | 18065 | 144.8 |
| Matsushiro         | eS  | 20 30C   |                   |          | 10025 | 90.2  |

inscrit à Lomé, Alicante, Hermanus, Nat. Univ.  
Pasadena, Nat. Uni Mexico, Berkeley, Beograd, Zagreb,  
Quito.

XIV- 25 janvier  
Sicile

Réplique H = 10h04<sup>m</sup>(12)<sup>s</sup> (ING) M = 4.18 (Messina)

|                  |     |            |     |            |
|------------------|-----|------------|-----|------------|
| Messina ING      | ePn | 10 04 52.8 | 1Sn | 10 05 18.8 |
| Messina          | iPn | 53         | 1   | 01         |
| La Mourre        | eIP | 06 03.3    |     |            |
| St Paul en Foret | eIP | 05         |     |            |
| Lorgues          | eIP | 06.5       |     |            |
| Isola            | i   | 11.9       |     |            |
| Lanslevillard    | e   | 25         | ei  | 06 37.6    |
| Roselend         | e   | 31         | ei  | 38         |
| Monteynard       | e   | 34         |     |            |
| Vouglans         | e   | 54         |     |            |

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|             |    |          |
|-------------|----|----------|
| Moxa        | e  | 10 07 36 |
| Collm       | e  | 41       |
| Lillehammer | eP | 09 27    |

XV. 25 janvier  
Nouvelles Hébrides (île Espiritu Santo)

14° 9'S, 167° 1'E

H = 10<sup>h</sup>08<sup>mn</sup>11<sup>s</sup>  
M = 4.1 (Nouméa)

|            |     |            |    |            |
|------------|-----|------------|----|------------|
| Luganville | iP  | 1008 29.2C | iS | 10 08 40.5 |
| Port Vila  | e.P | 55.8       | iS | 09 29.5    |
| Ouanaham   | eiP | 09 33.6    | iS | 10 36.5    |
| Koumac     | eiP | 41.5       | iS | 52         |
| Nouméa     | iP  | 56.8D      | iS | 11 19      |

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Sicile

Réplique : H = 10<sup>h</sup>45<sup>mn</sup>(36)<sup>s</sup> (ING) M = 4.02 (Messina)

|                  |     |          |     |            |
|------------------|-----|----------|-----|------------|
| Messina          | ePn | 10 46 18 | iSn | 10 46 45.8 |
| Messina ING      | ePn | 19       | iSn | 44         |
| La Mourre        | iP  | 47 30.8  |     |            |
| St Paul en Foret | iP  | 32.3     |     |            |
| Lorgues          | iP  | 33.8     |     |            |
| Isola            | i   | 37.8     |     |            |
| Lanslevillard    | e   | 53       | e   | 47 57      |
| Roselend         | e   | 58       | e   | 48 04      |
| Sommée Lormes    | eiP | 48 09.3  |     |            |
| Les Buteaux      | eiP | 13.6     |     |            |
| St Saulge        | iP  | 15.4     |     |            |

XVII. 25 janvier  
Iles aux Renards (Aléoutiennes)

51° 5'N, 169° 6'W h = 15km H = 11<sup>h</sup>22<sup>mn</sup>22<sup>s</sup> (CGS)  
51° 2'N, 170° 2'W H = 11<sup>h</sup>22<sup>mn</sup>24<sup>s</sup> (URSS)

M = 5.4 (Nurmijaervi), 5.3 (Newport), 5.0 (Uinwa Basin),  
4.9 (Cumberland Pl), 4.8 (Golden, Albuquerque, Wichita M),  
4.7 (CGS), 4.6 (Tucson), 4.5 (Eureka), 4.4 (Tonto Forest),  
4.3 (Dugway), 4.2 (Blue M), 4.0 (Gilmore Creek).

|                 |    |            |    |            |      |      |
|-----------------|----|------------|----|------------|------|------|
| Adak            | iP | 11 23 30.2 | iS | 11 24 16.4 | 490  | 4.4  |
| Big Mountain    | eP | 25 07.7    |    |            | 1255 | 11.3 |
| Sparrevohn      | eP | 22         |    |            | 1365 | 12.3 |
| Palmer          | eP | 54.9       |    |            | 1680 | 15.1 |
| Mts Sheep Creek | eP | 26 05      |    |            | 1765 | 15.9 |
| Tanana          | eP | 19.8       |    |            | 1835 | 16.5 |
| Black Rapids    | eP | 26         |    |            | 1935 | 17.4 |
| College         | iP | 26.5       |    |            | 1945 | 17.5 |
| Gilmore Creek   | eP | 28         |    |            | 1965 | 17.7 |
| Pedro Dome      | eP | 29.3       |    |            | 1965 | 17.7 |
| Barron          | iP | 27 02.4    |    |            | 2300 | 20.7 |

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|                |    |          |        |          |       |      |
|----------------|----|----------|--------|----------|-------|------|
| Mould Bay      | eP | 11 28 45 |        |          | 3 890 | 31.4 |
| Nordman        | 1P | 29 00.9  |        |          | 3700  | 33.3 |
| Yakoutsk       | 1P | 01       |        |          |       |      |
| Newport        | 1P | 01.1     |        |          | 3700  | 33.3 |
| Edmonton       | eP | 04       |        |          | 3735  | 33.c |
| Blue M.        | eP | 14.7     |        |          | 3865  | 34.8 |
| Mineral        | eP | 16.3C    |        |          |       |      |
| Hungry Horse   | eP | 17.3     | ePcP   | 11 31 47 | 3910  | 35.2 |
| Berkeley       | eP | 21.0D    |        |          |       |      |
| Mt. Hamilton   | eP | 24.2D    |        |          |       |      |
| Jamestown      | eP | 30.9D    |        |          | 4080  | 36.7 |
| San Luis Dam   | eP | 31.8     |        |          | 4090  | 36.8 |
| Resolute       | eP | 34D      |        |          | 4135  | 37.2 |
| Priest         | eP | 43.6     |        |          |       |      |
| Eureka         | 1P | 47       |        |          | 4290  | 38.8 |
| Matsushiro     | P  | 52       |        |          |       |      |
| Dugway         | eP | 59.1     |        |          | 4455  | 40.1 |
| Goldstone      | P  | 30 04    | i      | 30 17    | 4520  | 40.7 |
| Uinta Basin    | eP | 15.3     | ePcP   | 32 08.2  | 4680  | 42.1 |
| Bodajbo        | 1P | 16       |        |          |       |      |
| Oishiyama      | eP | 20.3     |        |          | 4765  | 42.9 |
| Tonto Forest   | eP | 36.9     | ePcP   | 17.8     | 4980  | 44.9 |
| Golden         | eP | 39       |        |          | 5000  | 45.0 |
| Tucson         | eP | 49.2     |        |          | 5155  | 46.4 |
| Albuquerque    | eP | 56       | e      | 27       | 5265  | 47.4 |
| Frobisher      | eP | 31 15    |        |          | 5535  | 49.9 |
| Wichita M.     | eP | 34.5     | ePcP   | 44.2     | 5820  | 52.4 |
| Kevo           | eP | 32 18    |        |          |       |      |
| Cumberland Pl. | eP | 24.7     |        |          | 6620  | 59.0 |
| Kiruna         | 1P | 34.8C    |        |          |       |      |
| Sodankylä      | eP | 38       |        |          | 6755  | 60.8 |
| Oulu           | 1P | 50.5     |        |          |       |      |
| Kajaani        | 1P | 56.2D    |        |          |       |      |
| Uméa           | 1P | 33 00.9  |        |          |       |      |
| Nurmijaerwi    | 1P | 20.8     |        |          | 7535  | 67.8 |
| Talgar         | 1P | 30       |        |          |       |      |
| Uppsala        | 1P | 30.8     |        |          | 7645  | 68.8 |
| Karlskrona     | 1P | 50       |        |          |       |      |
| Garm           | eP | 34 09    |        |          |       |      |
| Collm          | eP | 19       |        |          |       |      |
| Moxa           | eP | 23.8     |        |          | 8690  | 78.2 |
| Pruhonice      | P  | 26       |        |          | 8755  | 78.8 |
| Niedzica       | eP | 27.6     |        |          |       |      |
| Erlangen       | eP | 29.1D    | e(PcP) | 34 44.1  |       |      |
| Kasperské Hory | P  | 31       |        |          | 8855  | 79.7 |
| Folinière      | eP | 32       |        |          |       |      |
| St. Sauveur    | eP | 32.2     |        |          |       |      |
| Gorron         | eP | 32.c     |        |          |       |      |
| Le Pertre      | eP | 34.9     |        |          |       |      |
| Garchy         | 1P | 40.5D    |        |          |       |      |
| Sommée Lormes  | eP | 40.8     |        |          |       |      |
| St. Saulge     | eP | 41.9     |        |          |       |      |
| Les Buteaux    | eP | 42.1     |        |          |       |      |

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|                 |                   |                    |                   |            |       |       |
|-----------------|-------------------|--------------------|-------------------|------------|-------|-------|
| Toulx Ste Croix | eP                | 11 34 45.4         |                   |            |       |       |
| Vouglans        | eP                | 46.5               |                   |            |       |       |
| Roselend        | eP                | 50.4               | eP                | 11 35 05.8 |       |       |
| Lanslevillard   | eIP               | 52.9               | eI                | 34 56.7    |       |       |
| Quetta          | eP                | 56.8 <sup>D</sup>  |                   |            |       |       |
| Bulawayo        | IPKP              | 41 00 <sup>D</sup> |                   |            |       |       |
| Lamto           | PKP               | 14                 |                   |            | 13445 | 121.0 |
| Bangui          | IPKP <sub>1</sub> | 19                 | IPKP <sub>1</sub> | 41 31.2    |       |       |
| Karoi           | ePKP              | 48                 |                   |            |       |       |

XVIII. 25 Janvier

Maroc. (Explosion de 15 Tonnes)

32° 46' N ; 6° 46' W ; H = 11h.38<sup>mn</sup>(11)s. (Rabat)

|          |      |                   |      |            |     |     |
|----------|------|-------------------|------|------------|-----|-----|
| Averroes | IPg  | 11 38 26          | eISg | 11 38 36.5 | 85  | 0.8 |
| Rabat Z  | eIPb | 34                | eISb | 51         | 130 | 1.2 |
| Ifrane   | Pb   | 40.5 <sup>D</sup> | Sb   | 39 01      | 175 | 1.8 |

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Région de la Nouvelle Guinée

H = 11h.38,4<sup>mn</sup>

|              |      |                      |    |          |  |  |
|--------------|------|----------------------|----|----------|--|--|
| Goroka       | eP   | 11 38 56             |    |          |  |  |
| Port Moresby | IP   | 39 09.2 <sup>D</sup> | eS | 11 39 44 |  |  |
| Rabaul       | IP   | 40.5 <sup>D</sup>    |    |          |  |  |
| Keravat      | e(P) | 45                   |    |          |  |  |

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Tazhik (URSS)

37° 9' N ; 73° 1' E ; h = 223km ; H = 14h.28<sup>mn</sup>14s. (Quetta)

|           |    |                      |    |            |  |  |
|-----------|----|----------------------|----|------------|--|--|
| Warsak    | eP | 14 28 17.3           |    |            |  |  |
| Mangla    | eP | 28                   | IS | 14 29 23.7 |  |  |
| Quetta    | eP | 29 26.2 <sup>D</sup> | eS | 31 09.5    |  |  |
| New Dehli | eP | 32                   | IS | 14         |  |  |

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Sicile

37° 8' N ; 12° 9' E ; h = 33km ; H = 14h.35<sup>mn</sup>33s. (CGS)  
 37° 7' N ; 13° 1' E ; H = 14h.35<sup>mn</sup>34s. (BCIS)  
 37° 3' N ; 12° 2' E ; H = 14h.35<sup>mn</sup>24s. (URSS)  
 H = 14h.35<sup>mn</sup>(25)s. (IMG)

M. = 4.8 (Bangui) ; 4.7 (Collm\_Roma) ; 4.5 (Strasbourg\_Wichita M.) ;  
 4.4 (CGS - Praha - Pruhonice - Uinta Basin) ; 4.3 (Blue M.)

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|                       |       |    |    |                   |       |    |      |        |      |      |
|-----------------------|-------|----|----|-------------------|-------|----|------|--------|------|------|
| Messina ING           | ePn   | 14 | 36 | 04.5              | iSn   | 14 | 36   | 29.5   | 235  | 2.1  |
| Messina               | i(Pn) |    |    | 04.9              | e(Sn) |    |      | 31.9   | 235  | 2.1  |
| Reggio Calabria       | ePn   |    |    | 09.3              | iSn   |    |      | (39.7) | 245  | 2.2  |
| Roma                  | ePn   |    |    | 47                | eS    | 37 | 27   |        | 455  | 4.1  |
| Sétif                 | eP    | 37 |    | 02                |       |    |      |        | 690  | 6.2  |
| La Mourre             | eiP   |    |    | 17.7              |       |    |      |        | 820  | 7.4  |
| St. Paul en Foret     | eiP   |    |    | 19.2              |       |    |      |        | 825  | 7.4  |
| Lorgues               | eiP   |    |    | 20.5              |       |    |      |        | 835  | 7.5  |
| Sant Anna di Valdieri | eiP   |    |    | 24.7              | eS    | 38 | 48   |        | 860  | 7.7  |
| Isola                 | iP    |    |    | 25.8              |       |    |      |        | 865  | 7.8  |
| Trieste               | eP    |    |    | 29.7              | e     |    | 53   |        | 880  | 7.9  |
| Ljubljana             | ePn   |    |    | 35                |       |    |      |        | 925  | 8.3  |
| Monaco                | i     |    |    | 40.1              |       |    |      |        | 805  | 7.2  |
| Lanslevillard         | eP    |    |    | 41                | eiS   | 39 | 20.5 |        | 970  | 8.7  |
| Monteynard            | eP    |    |    | 43                |       |    |      |        | 995  | 9.0  |
| Roselend              | eP    |    |    | 46                | ei    | 37 | 48.8 |        | 1020 | 9.2  |
| l'Aquila              | i(S)  |    |    | 50                | ei    | 38 | 00   |        | 505  | 4.6  |
| Fürstenfeldbruck      | eP    |    |    | 55                |       |    |      |        | 1155 | 10.4 |
| Vouglans              | eP    | 38 |    | 01                | e     |    | 34   |        | 1125 | 10.1 |
| Kasperské Hory        | P     |    |    | 15                |       |    |      |        | 1255 | 11.3 |
| Les Buteaux           | eiP   |    |    | 15.3              |       |    |      |        | 1255 | 11.3 |
| Haumontpré            | eiP   |    |    | 15.4              |       |    |      |        | 1250 | 11.3 |
| Champ du Feu          | eiP   |    |    | 16.3              |       |    |      |        | 1260 | 11.4 |
| St. Saulge            | eP    |    |    | 18.3              |       |    |      |        | 1290 | 11.6 |
| Sommeé Lormes         | eiP   |    |    | 18.8              |       |    |      |        | 1290 | 11.6 |
| Toulx Ste Croix       | eiP   |    |    | 18.8              |       |    |      |        | 1290 | 11.6 |
| Campulung             | P     |    |    | 19 <sup>(D)</sup> |       |    |      |        | 1305 | 11.8 |
| Garchy                | iP    |    |    | 23 <sup>D)</sup>  |       |    |      |        | 1325 | 11.9 |
| Pruhonice             | eP    |    |    | 27                |       |    |      |        | 1355 | 12.2 |
| Moxa                  | eP    |    |    | 34                |       |    |      |        | 1435 | 12.9 |
| Niedzica              | eP    |    |    | 35.6              | ePP   |    | 44.6 |        | 1420 | 12.8 |
| Oujgorod              | eP    |    |    | 37                |       |    |      |        | 1420 | 12.8 |
| Toledo                | eP    |    |    | 42                | LQ    | 41 | 30   |        | 1485 | 13.4 |
| Pavia                 | e     |    |    | 46                |       |    |      |        | 875  | 7.9  |
| Collm                 | eP    |    |    | 55                |       |    |      |        | 1500 | 13.5 |
| Ifrane                | eP    | 39 |    | 10                |       |    |      |        | 1700 | 15.3 |
| Tamanrasset           | eP    |    |    | 18                |       |    |      |        | 1810 | 16.3 |
| Averroes              | P     |    |    | 34.5              |       |    |      |        | 1910 | 17.2 |
| Clermont              | e     | 40 |    | 23                | e     |    | 08   |        | 1200 | 10.8 |
| Uppsala               | iP    |    |    | 27.1              |       |    |      |        | 2475 | 22.3 |
| Nurmijaerwi           | eP    |    |    | 28                | e     | 40 | 43   |        | 2655 | 23.9 |
| Lillehammer           | iP    |    |    | 39.6              |       |    |      |        | 2590 | 23.3 |
| Bakouriani            | iP    |    |    | 42.8              |       |    |      |        | 2645 | 23.8 |
| Moskva                | P     |    |    | 54                |       |    |      |        | 2715 | 24.5 |
| Bangui                | iP    | 42 |    | 14 <sup>C)</sup>  |       |    |      |        | 3745 | 33.7 |
| Lamto                 | P     |    |    | 26.4              |       | 51 | 47.6 |        | 3935 | 35.4 |
| Sverdlovsk            | eP    |    |    | 34                |       |    |      |        | 4065 | 36.6 |
| Yakoutsk              | eP    | 46 |    | 39                |       |    |      |        | 7590 | 68.3 |
| Hungry Horse          | eP    | 47 |    | 52.1              |       |    |      |        | 9120 | 82.1 |
| Bozeman SSS           | eP    |    |    | 57                |       |    |      |        | 9245 | 83.2 |
| Wichita M.            | eP    | 48 |    | 01.1              |       |    |      |        | 9320 | 83.9 |

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|             |    |            |      |      |
|-------------|----|------------|------|------|
| Uinta Basin | eP | 14 48 15.1 | 9565 | 36.1 |
| Blue M.     | eP | 15.7       | 9590 | 88.3 |
| Dugway      | eP | 18.6       | 9755 | 87.8 |

inscrit à Strasbourg - M<sup>e</sup>Bour - Rabat - Praha - Uccle - Luxembourg -  
Bratislava.

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Valais (Suisse)

46°3 N ; 7°5 E ; H = 16h.57<sup>mn</sup>15<sup>s</sup>. (BCIS)

|                    |      |          |     |          |     |     |
|--------------------|------|----------|-----|----------|-----|-----|
| Roselend           | ePg  | 16 57 32 | eSg | 16 57 44 | 90  | 0.8 |
| Lanslevillard      | eIPg | 37.7     | eSg | 52       | 120 | 1.1 |
| Vouglans           | ePg  | 40       | ISg | 56.4     | 140 | 1.3 |
| Ballon de Servance | ePg  | 42.2     |     |          | 180 | 1.6 |
| Haudompré          | ePg  | 43.8     |     |          | 210 | 1.9 |
| Champ du Feu       | ePg  | 47.8     |     |          | 235 | 2.1 |
| Basel              | eS   | 52       |     |          | 140 | 1.2 |
| Les Buteaux        | ePg  | 58 00.8  |     |          | 280 | 2.5 |
| St. Saulge         | ePn  | 02.1     |     |          | 320 | 2.9 |
| Sommée Lormes      | ePg  | 03.4     |     |          | 300 | 2.7 |
| Bühlerhohe         | ISn  | 20.1     |     |          | 270 | 2.4 |

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Iles Loyauté.

21°8 S ; 170°0 E ; H = 17h.05<sup>mn</sup>08<sup>s</sup>. ; M. = 3.5 (Nouméa)

|          |    |                         |    |          |
|----------|----|-------------------------|----|----------|
| Ouanaham | IP | 17 05 51.2 <sup>C</sup> | IS | 17 06 25 |
| Nouméa   | IP | 06 01.1 <sup>C</sup>    | IS | 41       |
| Koumac   | IP | 30.8 <sup>C</sup>       | IS | 07 32.5  |

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Lac Barrage de Kariba.

16°6 S ; 28°3 E ; H = 18h.09<sup>mn</sup>44<sup>s</sup>. ; M. = 3.3 (Bulawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Karoi       | IP  | 18 10 06 | IS  | 18 10 20 |
| Broken Hill | iPn | 22       | ISn | 50       |
| Bulawayo    | ePn | 39       | ISg | 11 34    |
| Chileka     | ePn | 11 19    | eSg | 13 01    |
| Prétoria    | IS  | 14 23.9  |     |          |

inscrit à Windhoek

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Inde.

17°3 N ; 73°7 E ; H = 20h.15<sup>mn</sup>16s. (BCIS)

|               |     |                         |     |          |      |      |
|---------------|-----|-------------------------|-----|----------|------|------|
| Poona         | 1Pg | 20 15 39.2 <sup>D</sup> | eSg | 20 15 55 | 140  | 1°3  |
| Goa           | ePn | 44.8                    | eSn | 16 08.2  | 200  | 1°8  |
| Bombay        | 1Pn | 47                      | 1Sn | 12       | 200  | 1°8  |
| Kodaikanal    | 1P  | 17 12 <sup>C</sup>      | 1S  | 18 39    | 875  | 7°9  |
| Vishakapatnam | eP  | 31                      | eSg | 19 56    | 1020 | 9°2  |
| New Dehli     | 1P  | 18 03 <sup>D</sup>      | PP  | 18 09    | 1310 | 11°8 |
| Madras        | eSn | 25                      |     |          | 840  | 7°6  |
| Sehore        | e   | 43                      |     |          | 740  | 6°7  |
| Chatra        | 1P  | 55 <sup>D</sup>         | 1   | 23 22    | 1740 | 15°7 |
| Shillong      | eP  | 19 36                   |     |          | 2090 | 12°8 |
| Bokaro        | e   | 20 35                   | 1   | 21 58    | 1450 | 13°1 |
| Dehra Dun     | e   | 21 11.7                 |     |          | 1505 | 13°6 |

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Iles Salomon.

5°2 S ; 154°3 E ; h = 103<sup>km</sup> ; H = 20h.59<sup>mn</sup>34s. (CGS)

M. = 6.2 (Port Moresby) ; 5.1 (Shillong) ; 4.8 (CGS) ; 4.4 (College).

|                 |     |                       |      |            |       |       |
|-----------------|-----|-----------------------|------|------------|-------|-------|
| Rabaul          | 1P  | 21 00 12 <sup>D</sup> | 1S   | 21 00 36.2 | 255   | 2°3   |
| Keravat         | 1P  | 12.5 <sup>C</sup>     | 1(S) | 39.5       | 285   | 2°4   |
| Esa'Ala         | 1P  | 48.6                  |      |            |       |       |
| Honiara         | eP  | 01 15                 |      |            | 780   | 7°0   |
| Port Moresby    | 1P  | 32                    |      |            | 910   | 8°2   |
| Charters Towers | eP  | 03 25                 |      |            | 1855  | 16°7  |
| Brisbane        | 1P  | 04 22.9 <sup>C</sup>  | 1(S) | 08 22      | 2455  | 22°1  |
| Warramunga      | 1P  | 43                    |      |            | 2700  | 24°3  |
| Mundaring       | eP  | 05 09                 |      |            |       |       |
| Kalgoorlie      | 1P  | 06 58.6               |      |            | 4445  | 40°0  |
| Shillong        | 1P  | 10 23                 |      |            | 7455  | 67°9  |
| New Dehli       | e   | 11 40                 |      |            |       |       |
| College         | 1P  | 43.5                  |      |            | 9080  | 81°7  |
| Poona           | eP  | 47                    |      |            |       |       |
| Hyrd            | eP  | 12 22.1               |      |            | 9355  | 84°2  |
| Ifrane          | PKP | 19 04.5               |      |            | 16210 | 145°9 |

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Nouvelles Hébrides.

19°5 S ; 168°8 E ; h = 33<sup>km</sup> ; H = 21h.38<sup>mn</sup>30s. (CGS)

19°6 S ; 168°8 E ; H = 21h.38<sup>mn</sup>30s. (Nouméa)

M. = 3.8 (Nouméa)

|          |    |                         |    |            |     |     |
|----------|----|-------------------------|----|------------|-----|-----|
| Ouanaham | 1P | 21 36 59.4 <sup>D</sup> | 1S | 21 37 21.5 | 210 | 1°9 |
|----------|----|-------------------------|----|------------|-----|-----|



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|            |    |       |                   |    |       |      |     |     |
|------------|----|-------|-------------------|----|-------|------|-----|-----|
| Port Vila  | 1P | 21 37 | 00 <sup>D</sup>   | 1S | 21 37 | 23   | 200 | 1'8 |
| Nouméa     | 1P |       | 24 <sup>D</sup>   | 1S | 38    | 05.5 | 390 | 3'5 |
| Luganville | eP |       | 33.5              | 1S |       | 24   | 480 | 4'3 |
| Koumac     | 1P |       | 35.7 <sup>C</sup> | 1S |       | 25.5 | 480 | 4'3 |

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Au large de la cote, au Nord de la Californie.

41°4 N ; 125°1 W ; h = 33km ; H = 21h.50<sup>mn</sup>11<sup>s</sup>. (CGS)

M. = 4.9(Eureka); 4.3(CGS - Blue M.); 4.2(Tonto Forest); 3.8(Wichita M.);  
3.6 - 4.4(Berkeley).

|              |     |       |                   |     |       |      |      |      |
|--------------|-----|-------|-------------------|-----|-------|------|------|------|
| Arcata       | eP  | 21 50 | 27.4 <sup>C</sup> |     |       |      |      |      |
| Mineral      | eP  |       | 54.8 <sup>C</sup> | eS  | 21 51 | 25   |      |      |
| Oroville     | 1P  | 51    | 01.4              |     |       |      | 365  | 3'3  |
| Berkeley     | eP  |       | 14.7 <sup>C</sup> |     |       |      | 465  | 4'2  |
| Mt Hamilton  | eP  |       | 24.3 <sup>C</sup> | e   | 52    | 18.3 | 545  | 4'9  |
| Jamestown    | eP  |       | 25.6 <sup>C</sup> | e   | 51    | 31.5 | 555  | 5'0  |
| San Luis Dam | 1P  |       | 30.9              |     |       |      | 590  | 5'3  |
| Priest       | eP  |       | 45.3 <sup>C</sup> |     |       |      |      |      |
| Blue M.      | ePn |       | 50.3              |     |       |      | 745  | 6'7  |
| Eureka       | 1P  |       | 59.1              |     |       |      | 810  | 7'3  |
| Dugway       | eP  | 52    | 39.2              |     |       |      | 1045 | 9'4  |
| Tonto Forest | eP  | 53    | 20.6              |     |       |      | 1455 | 13'1 |
| Wichita M.   | eP  | 55    | 02.6              | ePP | 55    | 12.8 | 2435 | 21'9 |

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Nouvelles Hébrides

19°6 S ; 168°9 E ; h = 33km ; H = 22h.18<sup>mn</sup>27<sup>s</sup>. (CGS)  
19°6 S ; 168°9 E ; H = 22h.18<sup>mn</sup>30<sup>s</sup>. (Nouméa)

M. = 3.5(Nouméa)

|            |    |       |                   |    |       |      |     |     |
|------------|----|-------|-------------------|----|-------|------|-----|-----|
| Ouanaham   | 1P | 22 18 | 56.3 <sup>D</sup> | 1S | 22 19 | 16.5 | 100 | 1'9 |
| Port Vila  | 1P |       | 58.5 <sup>C</sup> | 1S |       | 19   | 110 | 2'0 |
| Nouméa     | 1P | 19    | 21.9              | 1S | 20    | 02   | 390 | 3'5 |
| Luganville | eP |       | 33.6              | 1S |       | 21   | 490 | 4'4 |
| Koumac     | 1P |       | 34.8 <sup>C</sup> | 1S |       | 25.5 | 490 | 4'4 |

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Nouvelles Hébrides (Ile Tanna)

18°3/4 S ; 169°1/2 E ; H = 00h.37<sup>mn</sup>33<sup>s</sup>. (Nouméa)  
M. = 3.4(Nouméa)

|           |    |       |                   |    |       |      |  |  |
|-----------|----|-------|-------------------|----|-------|------|--|--|
| Port Vila | 1P | 00 38 | 07.0 <sup>C</sup> | 1S | 00 38 | 31.5 |  |  |
|-----------|----|-------|-------------------|----|-------|------|--|--|

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|          |    |            |      |          |
|----------|----|------------|------|----------|
| Ouanaham | iP | 00 38 22.0 | D 1S | 00 38 59 |
| Nouméa   | iP |            | 43.2 | C        |

Inscrit à Koumac.

II.- 26 Janvier

Witwatersrand.

26°3 S ; 27°7 E ; H = 00h.47mn30s. ; M. = 3.2 (Bulawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Bulawayo    | ePn | 00 49 02 | 1Sg | 00 50 42 |
| Karoi       | ePn | 50       | eSg | 52 24    |
| Broken Hill | eSg | 53 41    |     |          |

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Région de l'île Soemba.

9°1 S ; 120°8 E ; h = 27km ; H = 01h.45mn24s. (CGS)

M. = 5.3 (CGS - Addis-Ababa)

|                 |     |            |                   |            |       |       |
|-----------------|-----|------------|-------------------|------------|-------|-------|
| Darwin          | eP  | 01 47 54.0 | eS                | 01 48 45.0 | 1155  | 10.4  |
| Davao           | iP  | 49 19.0    | iS                | 52 32.0    | 1870  | 16.8  |
| Warungu         | eP  | 20.0       | e                 | 19.5       | 1890  | 17.0  |
| Mundaring       | iP  | 50 32.4    |                   |            | 2580  | 23.2  |
| Port Moresby    | eP  | 51(03)     |                   |            | 2900  | 26.1  |
| Charters Towers | eP  | 40         | e                 |            |       |       |
| Brisbane        | eP  | 52 20      | i                 | 52 25.5    | 3920  | 35.3  |
| New Dehli       | eP  | 55 04.0    |                   |            | 6270  | 56.4  |
| Quetta          | eP  | 54.0       | C                 |            | 7200  | 64.8  |
| South Pole      | eP  | 57 37.1    |                   |            | 9000  | 81.0  |
| Addis Ababa     | eP  | 43         |                   |            | 9290  | 83.6  |
| Chileka         | eP  | 51         | epP               | 57 55      | 9290  | 83.6  |
| Nairobi         | eP  | 54.0       |                   |            | 9310  | 83.8  |
| Eyrd            | eP  | 58 04.1    |                   |            | 9555  | 86.0  |
| Karoi           | eP  | 14         | epP               | 58 20      | 9830  | 88.5  |
| Bulawayo        | eP  | 19         | ipP               | 24         | 9880  | 88.9  |
| Broken Hill     | eP  | 22         | epP               | 27         | 10000 | 90.0  |
| Blue M.         | PKP | 02 04 06.7 |                   |            | 13200 | 118.8 |
| Eureka          | PKP | 15.2       |                   |            | 13470 | 121.2 |
| Uinta Basin     | PKP | 28.4       |                   |            | 13970 | 125.7 |
| Tonto Forest    | PKP | 29.2       |                   |            | 14020 | 126.2 |
| Lanto           | PKP | 31.2       |                   |            | 14020 | 126.2 |
| Wichita M.      | PKP | 32.3       | eSKP <sub>2</sub> | 02 08 18.1 | 15200 | 135.9 |
| Albuquerque     | PKP | 33.0       |                   |            | 14420 | 129.8 |
| Cumberland Pl.  | PKP | 05 00.5    |                   |            | 16030 | 144.3 |
| Oak Ridge       | PKP | 03.7       |                   |            | 16090 | 144.8 |
| Penas           | PKP | 18.4       | iPKP <sub>2</sub> | 05 41.8    | 17020 | 153.2 |

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|          |      |       |      |  |       |       |
|----------|------|-------|------|--|-------|-------|
| La Paz   | ePKP | 02 05 | 20.5 |  |       |       |
| Huancayo | PKP  |       | 26.5 |  | 17070 | 143.6 |
| Arequipa | PKP  |       | 27.3 |  | 16880 | 151.9 |

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Iles Loyauté.

20° 1/4 S ; 169° 1/4 E ; H = 04<sup>h</sup>.06<sup>mn</sup>31<sup>s</sup>. ; M. = 3.4(Nouméa)

|          |    |       |                   |    |       |    |
|----------|----|-------|-------------------|----|-------|----|
| Ouanaham | 1P | 04 07 | 02.0 <sup>C</sup> | 1S | 04 07 | 26 |
| Nouméa   | 1P |       | 20.6              | 1S |       | 57 |

inscrit à Koumac.

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Région du Lac Hebgen (U.S.A.)

44° 9 N ; 111° 7 W ; h = 15 km ; H = 04<sup>h</sup>.39<sup>mn</sup>22.0<sup>s</sup>. (CGS)

|              |     |       |      |     |       |      |     |     |
|--------------|-----|-------|------|-----|-------|------|-----|-----|
| Bozeman SSS  | eP  | 04 39 | 34.5 | 1S  | 04 39 | 44.0 | 80  | 0.7 |
| Bitte        | ePn |       | 43.9 | 1Pg |       | 46.4 | 130 | 1.2 |
| Hungry Horse | ePn | 40    | 21.8 | ePg | 40    | 32.0 | 420 | 3.8 |
| Blue M.      | ePn |       | 24.6 |     |       |      | 445 | 4.0 |
| Uinta Basin  | eP  |       | 36.5 | eLg | 41    | 46.3 | 545 | 4.9 |
| Dugway       | eP  |       | 41.8 |     |       |      | 530 | 4.8 |

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Région des Iles Florès

8° 8 S ; 120° 4 E ; h = 29 km ; H = 04<sup>h</sup>.45<sup>mn</sup>41.4<sup>s</sup>. (CGS)  
 8° 7 S ; 120° 5 E ; h = 19 km ; H = 04<sup>h</sup>.45<sup>mn</sup>39<sup>s</sup>. (URSS)  
 9° 0 S ; 121° 4 E ; H = 04<sup>h</sup>.45<sup>mn</sup>30<sup>s</sup>. (Shillong)

M. = 6.7 (Uppsala - Kiruna - Roma) ; 6 3/4 - 7 (Palisades - De Bilt) ;  
 6.5 - 6.9 (Berkeley) ; 6 1/2 - 6 3/4 (Golden) ; 6.5 (Pasadena - South Pole) ;  
 6.4 (Bangui) ; 6.3 (Prétoria - Nairobi - Baguio) ; 6.2 (Addis Ababa) ;  
 6.0 (Quetta) ; 5.9 (CGS - Rabaul - Riverview) ; 5.6 (Mundaring) ; 5.4 (Davao) ;  
 5.1 (Mt. Tsukuba) ; 5.0 (North Pole).

|             |    |       |                   |    |       |      |      |      |
|-------------|----|-------|-------------------|----|-------|------|------|------|
| Darwin      | eP | 04 48 | 12.0              |    |       |      | 1210 | 10.9 |
| Warramunga  | eP | 49 37 |                   | e  | 05 00 | 21   | 1945 | 17.5 |
| Davao       | eP |       | 40.5              |    |       |      | 1830 | 16.6 |
| Meekatharra | 1P |       | 43.5 <sup>D</sup> |    |       |      | 1980 | 17.8 |
| Kalgoorlie  | 1P |       | 31.0 <sup>D</sup> |    |       |      | 2435 | 21.9 |
| Mundaring   | 1P |       | 47.0 <sup>D</sup> |    |       |      | 2800 | 23.4 |
| Baguio      | 1P | 51    | 12.0              | 1S | 55    | 42.0 | 2780 | 25.0 |
| Tabele      | eP |       | 15.5              |    |       |      | 2770 | 24.9 |

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|                  |      |                       |     |                    |      |       |
|------------------|------|-----------------------|-----|--------------------|------|-------|
| Port Moresby     | iP   | 04 51 16              | eS  | 04 55 54           | 2930 | 26° 4 |
| Charters Towers  | iP   | 25° 8                 | iS  | 56 03              | 3045 | 27° 4 |
| Hengchun         | eP   | 36° 1                 |     |                    | 3400 | 30° 6 |
| Esa'Ala          | eIP  | 54° 6                 | i   | 52 06° 0           | 3335 | 30° 0 |
| Hong Kong        | eP   | 52 10° 0 <sup>D</sup> | eS  | 57 11° 0           | 3500 | 31° 5 |
| Keravat          | e(P) | 14 <sup>D</sup>       |     |                    | 3520 | 31° 7 |
| Guam             | eP   | 14° 5                 | eL  | 59 36° 0           | 3655 | 32° 9 |
| Rabaul           | e(P) | 15° 5 <sup>D</sup>    | iS  | 57 20              | 3545 | 31° 9 |
| Taitung          | e(P) | 16° 2                 |     |                    | 3485 | 31° 4 |
| Port Blair       | iP   | 24                    |     |                    | 3800 | 34° 2 |
| Anpu             | iP   | 31° 5                 | s   | 58 02° 0           | 3755 | 33° 8 |
| Brisbane         | iP   | 33° 4                 | iS  | 04                 | 3980 | 35° 8 |
| Toolangi         | iP   | 46° 7 <sup>D</sup>    | eS  | 25                 | 4070 | 36° 6 |
| Canberra         | iP   | 51° 9 <sup>C</sup>    | eS  | 36                 | 4130 | 37° 2 |
| Riverview        | iP   | 56° 5                 | esP | 53 06° 0           | 4190 | 37° 7 |
| Honiara          | eP   | 53 07                 | eS  | 59 03              | 4345 | 39° 1 |
| Savannah         | iP   | 19° 9 <sup>D</sup>    |     |                    | 4500 | 40° 5 |
| Tarraleah        | eP   | 20° 0 <sup>D</sup>    |     |                    | 4500 | 40° 5 |
| Moorlands        | iP   | 24° 0 <sup>D</sup>    |     |                    | 4555 | 41° 0 |
| Tasmania Univ.   | iP   | 26° 8                 | e   | 55 32° 0           | 4600 | 41° 4 |
| Chittagong       | eP   | 33                    |     |                    | 4640 | 41° 8 |
| Shiraki          | e    | 39° 3                 |     |                    | 4955 | 44° 6 |
| Koumac           | iP   | 45° 9 <sup>C</sup>    |     |                    | 4880 | 43° 9 |
| Shillong         | iP   | 48                    | i   | 05 00 12           | 4890 | 44° 0 |
| Calcutta         | eP   | 55° 0                 | iS  | 36° 0              | 4910 | 44° 2 |
| Oishiyama        | eP   | 55° 8                 |     |                    | 4990 | 44° 9 |
| Madras           | iP   | 59                    | i   | 59                 | 5045 | 45° 4 |
| Vishakapatnam    | iP   | 54 00                 | iS  | 49                 | 5015 | 45° 1 |
| Wakaura          | eP   | 02° 0                 |     |                    | 5000 | 45° 0 |
| Luganville       | iP   | 05° 2 <sup>(C)</sup>  |     |                    | 5120 | 46° 1 |
| Nouméa           | iP   | 05° 2 <sup>C</sup>    | iS  | 48                 | 5130 | 46° 2 |
| Séoul            | eP   | 08° 0                 |     |                    | 5170 | 46° 5 |
| Trivandrum       | iP   | 09                    | e   | 11                 | 5170 | 46° 5 |
| Ouanaham         | iP   | 09° 6 <sup>C</sup>    |     |                    | 5190 | 46° 7 |
| Kodaikanal       | P    | 10                    |     |                    | 5190 | 46° 7 |
| Bokaro           | iP   | 11                    |     |                    | 5200 | 46° 8 |
| Port Vila        | iP   | 16° 0 <sup>D</sup>    |     |                    | 5270 | 47° 4 |
| Matsushiro       | iP   | 19° 0                 | s   | 01 20              | 5345 | 48° 1 |
| Kyosumi          | eP   | 19° 5                 |     |                    | 5290 | 47° 6 |
| Dodaira          | eP   | 20° 3                 | e   | 04 54 34° 0        | 5320 | 47° 9 |
| Chatra           | iP   | 21                    | i   | 05 01 31           | 5320 | 47° 9 |
| Mt. Tsukuba      | iP   | 29° 3                 | iS  | 21° 7 <sup>C</sup> | 5380 | 48° 4 |
| Goa              | iP   | 49° 0                 | iS  | 02 18° 0           | 5790 | 52° 1 |
| Vladivostok      | eP   | 55                    |     |                    | 5845 | 52° 6 |
| Poona            | eP   | 58                    | e   | 25                 | 5920 | 53° 3 |
| Bombay           | eP   | 55 06                 |     |                    | 6045 | 54° 4 |
| Monowai          | eP   | 11                    |     |                    | 6075 | 54° 7 |
| Macquarie Island | eP   | 12° 0                 |     |                    | 6110 | 55° 0 |
| New Dehli        | eP   | 16                    | iS  | 03 07              | 6210 | 55° 9 |
| Onerahi          | eP   | 20                    |     |                    | 6205 | 55° 9 |
| Dehra Dun        | iP   | 21                    |     |                    | 6255 | 56° 3 |

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|                   |     |                    |  |          |            |      |      |
|-------------------|-----|--------------------|--|----------|------------|------|------|
| Oulan Bator       | 1P  |                    |  | 1S       | 05 03 42   | 6415 | 57'7 |
| Wellington        | eP  | 04 55 30           |  | eS       | 42         | 6420 | 57'8 |
| Bhakra            | eP  | 33                 |  |          |            | 6450 | 58'0 |
| Port aux Français | eP  | 38                 |  |          |            | 6450 | 58'1 |
| Terre Adélie      | 1P  | 42'9               |  |          |            | 6590 | 59'3 |
| Esen Boulak       | 1P  | 43                 |  | S        | 04 03      | 6560 | 59'0 |
| Lahore            | 1P  | 45                 |  |          |            | 6620 | 59'6 |
| Gisborne          | eP  | 45                 |  |          |            | 6600 | 59'4 |
| Youjno Sakhalinsk | eP  | 46                 |  | eS       | 03 50      | 6545 | 58'9 |
| Mirny             | 1P  | 51'0               |  | eS       | 54'0       | 6730 | 60'3 |
| Karachi           | eP  | 58'4 <sup>D</sup>  |  |          |            | 6870 | 61'8 |
| Irkoutsk          | eP  | 56 05              |  | eS       | 04 29      | 6920 | 62'3 |
| Warsak            | 1P  | 06                 |  |          |            | 7005 | 63'1 |
| Quetta            | eP  | 15'5               |  | eS       | 48'2       | 7145 | 64'3 |
| Khorog            | 1P  | 20 <sup>C</sup>    |  |          |            | 7210 | 64'9 |
| Talgar            | eP  | 20                 |  | 1S       | 05 00      | 7220 | 65'0 |
| Frounze           | eP  | 23'5 <sup>D</sup>  |  |          |            | 7355 | 66'2 |
| Garm              | eP  | 23'4               |  |          |            | 7390 | 66'5 |
| Bodajbo           | 1P  | 30                 |  | 1sP      | 04 56 40'5 | 7390 | 66'5 |
| Afiyalu           | eP  | 32                 |  | eS       | 05 05 28   | 7390 | 66'5 |
| Kouliab           | eP  | 32'4               |  |          |            | 7370 | 66'3 |
| Douchambé         | 1P  | 34 <sup>C</sup>    |  |          |            | 7480 | 67'3 |
| Semipalatinsk     | P   | 42'1               |  | eS       | 41'8       | 7610 | 68'5 |
| Tachkent          | 1P  | 43'5 <sup>C</sup>  |  | S        | 51         | 7610 | 68'5 |
| Samarkand         | P   | 46                 |  |          |            | 7670 | 69'0 |
| Petropavlovsk     | eP  | 51                 |  |          |            | 7720 | 69'5 |
| Mawson            | 1P  | 52'7               |  | 1        | 13'2       | 7770 | 69'9 |
| Yakoutsk          | 1P  | 56 <sup>D</sup>    |  | S        | 06 14      | 7880 | 70'9 |
| Mashad            | e1P | 57 08'0            |  |          |            | 8055 | 72'5 |
| Magadan           | P   | 06                 |  | S        | 33         | 8020 | 72'2 |
| Scott Base        | P   | 10'8               |  |          |            | 8110 | 73'0 |
| Achkhabad         | eP  | 16'5               |  |          |            | 8245 | 74'2 |
| Kizyl_Arvat       | eP  | 28 <sup>D</sup>    |  |          |            | 8470 | 76'2 |
| Rarotonga         | eP  | 38'5               |  |          |            | 8610 | 77'5 |
| Téhéran           | eP  | 41'0               |  |          |            | 8720 | 78'5 |
| Tiksi             | P   | 49                 |  | sP       | 04 58 02   | 8930 | 80'4 |
| Sverdlovsk        | 1P  | 56                 |  | S        | 05 08 04   | 9070 | 81'6 |
| Kermanshah        | eP  | 56                 |  |          |            | 9045 | 81'4 |
| South Pole        | 1P  | 56'0               |  | ePKPKPKP | 24 42'2    | 9030 | 81'3 |
| Bakou             | P   | 58 <sup>C</sup>    |  |          |            | 9020 | 81'2 |
| Chileka           | eP  | 58 07 <sup>D</sup> |  |          |            | 9255 | 83'3 |
| Tabriz            | 1P  | 07'0               |  | ePcP     | 04 58 12'0 | 9220 | 83'0 |
| Goris             | 1P  | 08 <sup>C</sup>    |  | S        | 05 08 37   | 9280 | 83'5 |
| Addis_Ababa       | eP  | 08                 |  |          |            | 9245 | 83'2 |
| Kirovabad         | eP  | 10                 |  | S        | 38         | 9310 | 83'8 |
| Nairobi           | 1P  | 12'0 <sup>D</sup>  |  |          |            | 9280 | 83'5 |
| Changalane        | eP  | 15'0               |  |          |            | 9400 | 84'6 |
| Tbilisi           | P   | 18                 |  | S        | 38         | 9470 | 85'2 |
| Pietermaritzburg  | 1P  | 21                 |  |          |            | 9525 | 85'7 |
| Byrd              | eP  | 22'5               |  | ePP      | 01 47'8    | 9600 | 86'4 |
| Bakouriani        | 1P  | 23'3               |  | esP      | 04 58 33   | 9580 | 86'2 |
| Poti              | eP  | 23'3               |  |          |            | 9680 | 87'1 |
| Novo_Lazarevskaya | 1P  | 30                 |  | 1S       | 05 09 11   | 9755 | 87'8 |

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|                  |                   |       |                     |                     |            |      |       |       |
|------------------|-------------------|-------|---------------------|---------------------|------------|------|-------|-------|
| Papeete (Orston) | iP                | 04 58 | 32.6                |                     |            |      | 9710  | 87.4  |
| Karoi            | iP                |       | 33                  | ipP                 | 04 58 42   |      | 9805  | 88.2  |
| Papeete          | eP                |       | 33.0                |                     |            |      | 9710  | 87.4  |
| Prétoria         | iP                |       | 33.5 <sup>C</sup>   |                     |            |      | 9800  | 88.2  |
| Grahamstown      | iP                |       | 33.5 <sup>(C)</sup> |                     |            |      | 9825  | 88.4  |
| Papenoo          | iP                |       | 33.8                |                     |            |      | 9730  | 87.6  |
| Sotchi           | eP                |       | 34                  | esP                 |            | 46   | 9920  | 89.3  |
| Hawai Volc. Obs. | eP                |       | 35.1                | e                   | 05 24 47.0 |      | 9730  | 87.6  |
| Bulawayo         | iP                |       | 36 <sup>D</sup>     | eS                  | 09 16      |      | 9855  | 88.7  |
| Broken Hill      | iP                |       | 40                  | eIS                 |            | 28   | 9965  | 89.7  |
| Butare           | iP                |       | 43.2                | i                   | 04 59 22.6 |      | 10030 | 90.3  |
| Tiputa           | iP                |       | 43.6                |                     |            |      | 9970  | 89.7  |
| Jérusalem        | eP                |       | 44                  | eS                  | 05 09 12   |      | 10055 | 90.5  |
| Ksara            | eP                |       | 48                  | i(S)                |            | 17   | 10035 | 90.3  |
| Moskva           | P                 |       | 54                  | S                   |            | 58   | 10345 | 93.1  |
| Helwan           | eP                |       | 57                  | eSKS                | 10 12      |      | 10380 | 93.5  |
| Sparrevohn       | eP                | 59    | 05.0                |                     |            |      | 10520 | 94.7  |
| Barrow           | eP                |       | 07.7                |                     |            |      | 10670 | 96.0  |
| Palmer           | eP                |       | 10.1                |                     |            |      | 10880 | 97.9  |
| Istanbul UTI     | eP                |       | 12                  |                     |            |      | 10745 | 96.7  |
| Poulkovo         | eP                |       | 17                  |                     |            |      | 10845 | 97.6  |
| Kajaani          | iP                |       | 20.5                |                     |            |      | 11000 | 99.0  |
| Kevo             | eP                |       | 22                  | eSS                 | 17 36      |      | 11030 | 99.3  |
| Sodankylä        | iØ                |       | 22.2                |                     |            |      | 11055 | 99.5  |
| Windhoek         | iP                |       | 23.1                |                     |            |      | 10975 | 98.8  |
| Black Rapids     | eP                |       | 23.5                |                     |            |      | 11055 | 99.5  |
| Oulu             | eP                |       | 24                  |                     |            |      | 11090 | 99.8  |
| Mts Sheep Creek  | eP                |       | 24.0                |                     |            |      | 10970 | 98.7  |
| Vrincioaia       | P                 |       | 26                  |                     |            |      | 10975 | 98.8  |
| Campulung        | P                 |       | 27                  |                     |            |      | 11105 | 100.0 |
| Nurmijaerwi      | iP                |       | 28.0                | eS                  | 10 52      |      | 11155 | 100.4 |
| Bangul           | iP                |       | 37.1                | i                   |            | 13.7 | 11370 | 102.3 |
| Kiruna           | iØ                |       | 37.6                |                     |            |      | 11320 | 101.9 |
| Vamos            | eP                |       | 39.0                |                     |            |      | 11120 | 100.1 |
| Uméa             | iP                |       | 43.4                |                     |            |      | 11370 | 102.3 |
| Niedzica         | eP                |       | 46.6                | e                   | 00 03.6    |      | 11465 | 103.2 |
| Trieste          | eP                |       | (52)                | e                   | 12.0-      |      | 11980 | 107.0 |
| Skalstugan       | eP                |       | 52                  |                     |            |      | 11765 | 105.9 |
| North Pole       | eP                |       | 52.2                |                     |            |      | 11710 | 105.4 |
| Uppsala          | eP                |       | 53                  |                     |            |      | 11545 | 103.9 |
| Athènes          | ePP               | 05 03 | 40.1                |                     |            |      | 11180 | 100.6 |
| Bratislava       | eIPP              | 04    | 07.3                | ei                  | 05 10.4    |      | 11710 | 105.4 |
| Srobarova        | eIPP              |       | 08                  | ei                  | 01         |      | 11620 | 104.6 |
| Fürstenfeldbruck | ePKP <sub>1</sub> |       | 10                  | eipPKP <sub>1</sub> | 04 23      |      | 12140 | 109.2 |
| Garchy           | i(PKP)            |       | 10.7                | i                   |            | 22.9 | 12760 | 114.8 |
| Erlangen         | ePKP <sub>1</sub> |       | 13.8                |                     |            |      | 12115 | 109.1 |
| Wien             | eIPP              |       | 14                  |                     |            |      | 11770 | 105.9 |
| Sommée Lormes    | ePKP              |       | 20.1                |                     |            |      | 12700 | 114.2 |
| Roselend         | ePKIKP            |       | 21                  | eIPP                | 05 09.4    |      | 12535 | 112.8 |
| Les Buteaux      | ePKP              |       | 21.4                |                     |            |      | 12705 | 114.3 |

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|               |        |                   |                   |            |       |       |
|---------------|--------|-------------------|-------------------|------------|-------|-------|
| St. Saulge    | ePKP   | 05 04 21.9        |                   |            | 12730 | 114.6 |
| Longmire      | ePKP   | 22                |                   |            | 12810 | 115.3 |
| Lanslevillard | PKIKP  | 22                | ei                | 05 04 29.7 | 12520 | 112.7 |
| Raciborz      | ePP    | 24                |                   |            | 11615 | 104.5 |
| Vouglans      | ePKIKP | 24.5              | eiPP              | 05 07.1    | 12595 | 113.3 |
| Tamanrasset   | PKP    | 25.0              | e                 | 35.0       | 12910 | 116.2 |
| Edmonton      | PKP    | 26.0              |                   |            | 13130 | 118.2 |
| Folinjere     | ePKP   | 26.2              |                   |            | 12970 | 116.7 |
| Oroville      | PKP    | 26.5              |                   |            | 13010 | 117.1 |
| Newport       | PKP    | 27.0              |                   |            | 13100 | 117.9 |
| Nordman       | PKP    | 27.0              |                   |            | 13090 | 117.8 |
| Gorron        | ePKP   | 27.2              |                   |            | 13019 | 117.1 |
| Le Pertre     | ePKP   | 27.2              |                   |            | 13035 | 117.3 |
| Blue M.       | PKP    | 27.4              |                   |            | 13200 | 118.8 |
| Pruhonice     | ePP    | 29                |                   |            | 11875 | 106.9 |
| St. Sauveur   | ePKP   | 29.2              |                   |            | 12945 | 116.5 |
| San Luis Dam  | PKP    | 29.5              | i                 | 04 37.0    | 13090 | 117.9 |
| Jamestown     | PKP    | 29.5 <sup>D</sup> | e                 | 05 20.3    | 13145 | 118.3 |
| l'Aquila      | ePP    | 30                | ei(PS)            | 13 58      | 12050 | 108.4 |
| Mineral       | PKP    | 30.2 <sup>C</sup> |                   |            | 12990 | 116.9 |
| Berkelay      | PKP    | 30.2 <sup>D</sup> | PP                | 06 00.1    | 13210 | 118.9 |
| Mt. Hamilton  | PKP    | 30.7 <sup>D</sup> |                   |            | 13055 | 117.5 |
| Priest        | PKP    | 30.8              |                   |            | 13155 | 118.4 |
| Hungry Horse  | PKP    | 31.2              | eSP               | 14 44.8    | 13310 | 119.8 |
| Akureyri      | ePKP   | 32.0              |                   |            | 12930 | 116.4 |
| Pasadena      | PKP    | 34.0              | ePP               | 05 54      | 13420 | 120.8 |
| Almería       | iPKP   | 34.5              | ePP               | 06 06.5    | 13490 | 121.4 |
| Eureka        | PKP    | 34.9              | ePP               | 10.8       | 13480 | 121.3 |
| Butte         | PKP    | 35.5              | eSKD              | 14 41.4    | 13580 | 121.6 |
| Alicante      | ePKP   | 36                |                   |            | 13200 | 118.8 |
| Toledo        | iPKP   | 36                | i                 | 04 46      | 13535 | 121.8 |
| Goldstone     | ePKP   | 37                | PKKP              | 14 46      | 13520 | 121.7 |
| Bozeman SSS   | PKP    | 37.5              | e                 | 08 32.0    | 13590 | 122.4 |
| Dugway        | PKP    | 38.7              |                   |            | 13710 | 123.4 |
| Roma          | PP     | 39                | eSKS              | 10 51      | 12125 | 109.1 |
| Ifrane        | PKP    | 41.5              | e                 | 06 00      | 13310 | 124.3 |
| Flaming Gorge | PKP    | 42.0              |                   |            | 13955 | 124.6 |
| Uinta Basin   | PKP    | 42.5              | eSKP <sub>1</sub> | 08 26      | 13970 | 125.7 |
| Porto         | PKP    | 43.0              |                   | 14 00.0    | 13855 | 124.7 |
| Lamto         | PKP    | 44.2              |                   |            | 13990 | 125.9 |
| Averroes      | ePKP   | 44.5              | e                 | 04 50      | 14020 | 126.2 |
| Tonto Forest  | ePKP   | 45.1              | eSKS <sub>2</sub> | 11 58.0    | 14030 | 126.3 |
| Tucson        | PKP    | 46.0              |                   |            | 14145 | 127.3 |
| Golden        | PKP    | 49.6              | eSKS              | 45         | 14320 | 128.9 |
| Rabat         | ePKP   | 51                | LM                | 54 --      | 13945 | 125.5 |
| Flagstaff     | PKP    | 52.5              |                   |            | 13970 | 125.7 |
| Lubbock       | PKP    | 52.5              | e                 | 05 01.5    | 14890 | 134.0 |
| Lisboa        | PKP    | 52.8              |                   |            | 13995 | 125.9 |
| Albuquerque   | PKP    | 53.0              | e                 | 15 57.0    | 14430 | 129.9 |
| Manhattan     | PKP    | 53.0              |                   |            | 15020 | 135.2 |
| Ann Arbor     | PKP    | 05 00.0           |                   |            | 15610 | 140.5 |

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|                     |       |                    |       |          |       |        |
|---------------------|-------|--------------------|-------|----------|-------|--------|
| Strasbourg          | ePP   | 05 05 02           | ePPP  | 05 07 08 | 12385 | 111° 5 |
| Bensberg            | ePP   | 03                 | LR    | 39 28    | 12375 | 114° 5 |
| Paldenue            | PKP   | 03° 5              | eSKP  | 08 35° 5 | 15220 | 137° 0 |
| Presa Infiernillo   | ePKP  | 04                 |       |          | 15325 | 137° 9 |
| Lawrence            | PKP   | 07° 0              | e(S)  | 44° 5    | 15130 | 136° 2 |
| Besançon            | ePP   | 07° 7              |       |          | 12545 | 112° 9 |
| Ténériffe           | PKP   | 09° 3              |       |          | 14980 | 134° 8 |
| Brébeuf             | iPKP  | 09° 9              |       |          | 15720 | 141° 5 |
| Ottawa              | PKP   | 12° 0              |       |          | 15670 | 141° 0 |
| M. Bour             | iPKP  | 13                 | ePP   | 07 56    | 15325 | 137° 9 |
| Vista Hermosa       | ePKP  | 13                 |       |          | 15880 | 142° 9 |
| Tacubaya            | PKP   | 14° 0              | e     | 08 10° 0 | 15590 | 140° 3 |
| Cumberland Pl.      | PKP   | 14° 2              |       |          | 16030 | 144° 3 |
| Berlin              | PKP   | 14° 8              |       |          | 15880 | 142° 9 |
| Ponta Delgada       | PKP   | 15° 5              | PKS   | 08 54    | 15330 | 138° 0 |
| Morgantown          | PKP   | 16° 0              |       |          | 16030 | 144° 3 |
| Nat. Univ. Mexico   | PKP   | 16° 0              |       |          | 15590 | 140° 3 |
| Weston              | PKP   | 17° 6              |       |          | 16110 | 145° 0 |
| Presa B. Juarez     | ePKP  | 17° 7              |       |          | 16030 | 144° 3 |
| Oak Ridge           | PKP   | 18° 4              |       |          | 16090 | 144° 8 |
| Washington Sc. Cen. | PKP   | 19° 0              | ePP   | 07 20° 5 | 16220 | 146° 0 |
| Georgetown          | PKP   | 19° 6              |       |          | 16245 | 146° 2 |
| Palisades           | PKP   | 19° 6              |       |          | 16170 | 145° 5 |
| Antofagasta         | ePKP  | 22° 3 <sup>C</sup> | eSS   | 27 42    | 16225 | 146° 0 |
| La Palma            | PKP   | 29° 0              |       |          | 16720 | 150° 5 |
| Nana                | PKP   | 31° 0              |       |          | 17030 | 153° 2 |
| Arequipa            | PKP   | 31° 1              |       |          | 16920 | 152° 3 |
| San Salvador        | PKP   | 33° 5              |       |          | 16730 | 150° 6 |
| La Paz              | PKP   | 35                 | eSKS  | 13 46° 0 | 17050 | 153° 5 |
| Penas               | PKP   | 35° 4              | epPKP | 05 50    | 17070 | 153° 6 |
| Huancayo            | PKP   | 36° 2              |       |          | 17120 | 154° 1 |
| Quito               | PKP   | 43° 0              | SS    | 30 18    | 17690 | 159° 2 |
| Bogota              | PKP   | 46° 5              |       |          | 18345 | 165° 1 |
| San Juan            | PKP   | 47° 0              | ePP   | 10 39° 0 | 18755 | 168° 8 |
| Balboa Heights      | PKP   | 48° 0              |       |          | 17810 | 160° 3 |
| Trinidad            | PKP   | 50° 3              |       |          | 17710 | 177° 4 |
| Fuquene             | PKP   | 53° 0              |       |          | 18400 | 165° 6 |
| Caracas             | ePKP1 | 54                 | iSKP  | 09 45    | 19175 | 172° 6 |
| Galerzamba          | (PKP) | 06 05° 0           |       |          | 18270 | 164° 4 |

Inscrit à Léon, Lvov, Praha, Zagreb, Bucaresti, Padova, Krakow, Pavia, Koumac, Ljubljana, Sofia, Moxa, Collmberg, Kasper-ské Hory, Welschbruch, De Bilt, Clermont, Lomé.

VII. 26 janvier  
Données insuffisantes

|             |    |          |     |          |
|-------------|----|----------|-----|----------|
| Chileka     | eP | 05 05 48 | ePP | 05 05 57 |
| Karoi       | eP | 06 15    | iPP | 06 24    |
| Bulawayo    | iP | 17D      | iPP | 26       |
| Broken Hill | eP | (20)     | ePP | 28       |



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VIII. 26 janvier  
Iles Loyauté

20° 3/4 S, 170° 1/2 E H = 06h22mn09s M = 3.4 (Nouméa)  
Nouméa iP 06 23 09.6C iS 06 23 55  
Koumac eIP 34.6 iS 41.5

IX. 26 janvier  
Ilot Mathew

22° 1/4 S, 171° 1/2 E H = 07h22mn03s M = 4.0 (Nouméa)  
Ouanaham iP 07 23 04.1C iS 07 23 51  
Nouméa iP 10.5C iS 24 02  
Koumac eIP 43.3 iS 25 01.5

X. 26 janvier  
Hondo (Japon)

36° 4' N, 138° 2' E h = 12km H = 07h55mn21.6s (CGS)  
36° 7' N, 138° 0' E H = 07h55mn24s (URSS)  
36° 31' N, 138° 09' E h = 0km H = 07h55mn19.0s (JMA)

M = 5.85 (Roma), 5.3 (JMA), 5.2 (Wichita M), 5.1 (Eureka, College),  
5.0 (Palmer, CGS, URSS, Dugway, Uinta Basin, Tonto Forest, Golden),  
4.9 (Albuquerque, Gilmore Creek), 4.8 (Blue M), 4.7 (North Pole),

|                    |      |            |    |            |      |      |
|--------------------|------|------------|----|------------|------|------|
| Matsushiro         | P    | 07 55 22.5 | S  | 07 55 23.5 | 15   | 0.1  |
| Maebashi           | iP   | 35.4       | iS | 44.3       | 75   | 0.7  |
| Dodaira            | iP   | 39.1       |    |            | 10   | 0.9  |
| Funatsu            | iP   | 43.5       | iS | 57.4       | 110  | 1.0  |
| Mt Tsukuba         | iP   | 48.7       |    |            | 160  | 1.6  |
| Tokyo              | iP   | 50.6       | eS | 58 13.7    | 160  | 1.5  |
| Ajiro              | iP   | 52.5       | S  | 13.8       | 170  | 1.5  |
| Kyosumi            | iP   | 58.0       |    |            | 220  | 2.0  |
| Choshi             | eP   | 59.9       | eS | 34.8       |      |      |
| Kyoto              | iP   | 56 02.6    | iS | 38.0       | 270  | 2.4  |
| Abuyama            | iP   | 05.4       |    |            | 295  | 2.7  |
| Sendai             | eP   | 07.6       | S  | 48.4       | 315  | 2.8  |
| Oishiyama          | eP   | 14.5C      | iS | 57 07.5    | 370  | 3.3  |
| Wakaura            | eP   | 14.8       | iS | 09.4       | 370  | 3.3  |
| Osaka              | eP   | 16.3       | e  | 56 55.9    | 310  | 2.8  |
| Mizusawa           | eP   | 19.8       |    |            | 400  | 3.6  |
| Morioka            | P    | 23.3       | S  | 57 20.2    | 450  | 4.0  |
| Murotomisaki       | i(P) | 32.0       | i  | 39.6       | 370  | 3.4  |
| Shiraki            | eP   | 37.5       |    |            | 545  | 4.9  |
| Kumamoto           | eP   | 57 09      |    |            | 795  | 7.1  |
| Vladivostok        | eP   | 22         |    |            | 920  | 8.3  |
| Youjno Sakhalinske | P    | 58 00      |    |            | 1235 | 11.1 |
| Petropavlovsk      | eP   | 08 00 15   |    |            | 2440 | 21.9 |
| Guam               | eP   | 30.0       |    |            | 2620 | 23.6 |
| Magadan            | eP   | 41         |    |            | 2730 | 24.6 |
| Yakoutsk           | iP   | 56.1       |    |            | 2920 | 26.2 |
| Bodajbo            | eP   | 59         |    |            | 2965 | 26.7 |
| Shillong           | eP   | 03 03.2    |    |            | 4530 | 40.8 |

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|   |      |       |       |       |       |
|---|------|-------|-------|-------|-------|
| Semipalatinsk                                     | eP   | 08 03 | 22.5  | 4810  | 43.3  |
| Talgar  | eP   |       | 48    | 5145  | 46.3  |
| Sparrevohn  | eP   | 04    | 00.0  | 5280  | 47.5  |
| Barrow  | eP   |       | 00.2  | 5330  | 48.0  |
| Frounze   | eP   |       | 03.5  | 5375  | 48.4  |
| Palmer  | eP   |       | 20.5  | 5630  | 50.7  |
| Pedro Dome  | eP   |       | 25.0  | 5680  | 51.1  |
| College   | eP   |       | 25.0  | 5670  | 51.0  |
| Gilmore Creek                                     | eP   |       | 25.2  | 5680  | 51.1  |
| New Delhi   | eP   |       | 26    | 5695  | 51.2  |
| Mt Sheep Creek                                    | eP   |       | 28.0  | 5720  | 51.5  |
| Black Rapids                                      | eP   |       | 31.5  | 5780  | 52.0  |
| Garm  | eP   |       | 35    | 5845  | 52.6  |
| Douchambé   | eP   |       | 46    | 5990  | 53.9  |
| Warramunga  | eP   | 05    | 01.5C | 6240  | 56.2  |
| Charters Towers                                   | eP   |       | 06    | 6300  | 56.7  |
| Mould Bay   | eP   |       | 14.0  | 6420  | 57.8  |
| North Pole  | eP   |       | 15.9  | 6420  | 57.8  |
| Questa  | eP   |       | 18.4  | 6515  | 58.7  |
| Ponna   | eP   |       | 19    | 6535  | 58.8  |
| Kevo  | eP   |       | 52    | 7010  | 63.1  |
| Resolute  | eP   |       | 54.0  | 7090  | 63.8  |
| Sodankylae  | eP   |       | 57    | 7170  | 64.5  |
| Bristane  | 1P   | 06    | 01.6  | 7220  | 65.0  |
| Kajaani   | 1P   |       | 06.7  | 7335  | 66.0  |
| Oulu  | eP   |       | 07    | 7340  | 66.1  |
| Kiruna  | eP   |       | 14    | 7350  | 66.2  |
| Umeå  | 1P   |       | 24.7  | 7645  | 68.8  |
| Nurmijaervi                                       | 1P   |       | 29.1  | 7690  | 69.2  |
| Bakuriani   | eP   |       | 35.3  | 7775  | 70.0  |
| Edmonton  | eP   |       | 44.0  | 7930  | 71.4  |
| Hungry Horse                                      | eP   |       | 59.2  | 8220  | 74.0  |
| Mineral   | eP   | 07    | 00.4D | 8245  | 74.2  |
| Blue M.   | 1P   |       | 00.9C | 8245  | 74.2  |
| Mt Hamilton                                       | eP   |       | 09.0C | 8430  | 75.9  |
| Butte   | eP   |       | 11.8  | 8470  | 76.2  |
| Jamestown   | eP   |       | 13.0C | 8480  | 76.3  |
| Eureka  | 1P   |       | 24.2  | 8690  | 78.2  |
| Dugway  | eP   |       | 30.8  | 8855  | 79.7  |
| Pasadena  | eP   |       | 33    | 8900  | 80.1  |
| Flaming Gorge                                     | eP   |       | 39.6  | 9020  | 81.2  |
| Uinta Basin                                       | eP   |       | 40.9  | 9055  | 81.5  |
| Tonto Forest                                      | eP   |       | 56.5  | 9380  | 84.4  |
| Golden  | eP   |       | 57.0  | 9370  | 84.3  |
| Tucson  | eP   | 08    | 04.3  | 9555  | 86.0  |
| Albuquerque                                       | eP   |       | 08.8  | 9670  | 87.0  |
| Wichita M.  | eP   |       | 30.9  | 10190 | 91.7  |
| South Pole  | PKP  | 14    | 25.4  | 14030 | 126.3 |
| Arequipa  | PKP  | 15    | 06.3  | 16330 | 147.0 |
| La Paz  | ePKP |       | 11.8  | 16600 | 149.4 |
| Penas   | ePKP |       | 14.5  | 16555 | 149.0 |
| inscrit à Roma, Uccle, Trieste, l'Aquila, Toledo. |      |       |       |       |       |

ePP 08 10 8 x 3

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XI. 28 Janvier  
Sicile

Réplique. M = 3.6 (Messina)

|                  |    |            |   |            |
|------------------|----|------------|---|------------|
| Messina          | e  | 07 58 25.5 | i | 07 58 44.2 |
| La Mourre        | eP | 59 36.4    |   |            |
| St Paul en Foret | eP | 38.0       |   |            |
| Lorgues          | eP | 39.2       |   |            |

inscrit à Messina ING.

XII. 28 Janvier  
Sicile

37° 7'N, 12° 8'E h = 31 km H = 08h02<sup>m</sup>18<sup>s</sup> (CGS)

M = 4.9 (Bangui), 4.8 (Bozeman SSS, Uinta Basin), 4.6 (CGS, Wichita M., Dugway), 4.4 (Blue M), 4.3 (Tonto Forest).

|                 |       |            |     |            |      |      |
|-----------------|-------|------------|-----|------------|------|------|
| Messina ING     | ePn   | 08 02 51.2 | iSn | 08 03 16.2 | 250  | 2.2  |
| Messina         | ePn   | 52.0       | iSn | 17.9       | 250  | 2.2  |
| Reggio Calabria | ePn   | 55.8       | iSg | 31.1       | 255  | 2.3  |
| Sétif           | ePn   | 03 49      |     |            | 680  | 6.1  |
| Roma            | eSn   | 04 10.7    |     |            | 470  | 4.2  |
| Isola           | iPn   | 12.4       |     |            | 870  | 7.8  |
| Ljubljana       | ePn   | 21         |     |            | 935  | 8.4  |
| Lanslevillard   | eIP   | 27.0       | ei  | 04 33.4    | 975  | 8.8  |
| Monteynard      | eP    | 29.5       |     |            | 1000 | 9.0  |
| Roselend        | eP    | 30         | eS  | 06 06      | 1025 | 9.2  |
| L'Aquila        | eS    | 37         |     |            | 520  | 4.7  |
| Vouglans        | eP    | 45.5       | e   | 05 14.5    | 1130 | 10.2 |
| Clermont        | e(P)  | 56         | e   | 03         | 1205 | 10.8 |
| Les Buteaux     | eIP   | 05 00.9    |     |            | 1260 | 11.3 |
| St Saulge       | eIP   | 04.8       |     |            | 1300 | 11.7 |
| Sommée Lormes   | eIP   | 06.2       |     |            | 1300 | 11.7 |
| Niedzica        | eP    | 22.5       |     |            | 1435 | 12.9 |
| Moxa            | eP    | 24.5       |     |            | 1445 | 13.0 |
| Krakow          | eP    | 32.4       |     |            | 1485 | 13.4 |
| Toledo          | eP    | n 33       | Lr  | 09 30      | 1480 | 13.3 |
| Collm           | eP    | 40         | e   | 07 37      | 1520 | 13.7 |
| Ifrane          | P     | 06 00.5    |     |            | 1690 | 15.2 |
| Tamanrasset     | eP    | 07         |     |            | 1790 | 16.1 |
| Trieste         | e(Sb) | 15         |     |            | 885  | 8.0  |
| Averroes        | ePP   | 24         |     |            | 1890 | 17.0 |
| Nurmijaervi     | iP    | 07 37.0D   |     |            | 2670 | 24.0 |
| Kiruna          | iP    | 08 32.2    |     |            | 3390 | 30.5 |
| Bangui          | iP    | 56.6       | iPP | 10 04.6    | 3720 | 33.5 |
| Lamto           | P     | 09 13.1    |     |            | 3920 | 35.3 |
| Hungry Horse    | eP    | 14 37.3    |     |            | 9130 | 82.2 |
| Butte           | eP    | 42.5       |     |            | 9255 | 83.3 |
| Bozeman SSS     | eP    | 43.5       |     |            | 9245 | 83.2 |
| Wichita M.      | eP    | 46.8       |     |            | 9320 | 83.9 |
| Blue M.         | eP    | 57.6       |     |            | 9590 | 86.3 |
| Uinta Basin     | eP    | 15 01.4    |     |            | 9580 | 86.2 |
| Dugway          | eP    | 06.1       |     |            | 9770 | 87.9 |

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Tonto Forest eP 08 15 24.5 10180 91.6

Inscrit à La Mourre, St Paul en Foret, Lorgues.

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Iles aux Rats-Aléoutiennes

51°7'N, 179°6'E. h = 33km. H = 08h03<sup>mn</sup>03<sup>s</sup> (CGS)  
M = 4.7 (Bozeman SSS), 4.5 (Eureka, Dugway, Uinta Basin), 4.3 (CGS), 3.9 (Tonto Forest), 3.8 (Blue M).

|               |    |            |  |      |      |
|---------------|----|------------|--|------|------|
| Adak          | eP | 08 03 39.9 |  | 270  | 2.4  |
| Palmer        | eP | 07 33.1    |  | 2180 | 19.6 |
| Gilmore Creek | eP | 49.1       |  | 2390 | 21.5 |
| Blue M.       | eP | 10 47.0    |  | 4600 | 41.4 |
| Bozeman SSS   | eP | 11 11.0    |  | 4920 | 44.3 |
| Eureka        | eP | 19.5       |  | 5030 | 45.3 |
| Dugway        | eP | 30.7       |  | 5200 | 46.8 |
| Uinta Basin   | eP | 46.3       |  | 5400 | 48.6 |
| Tonto Forest  | eP | 12 06.8    |  | 5720 | 51.5 |

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Hondo (Japon)

36°3'N, 133°3'E h = 26km H = 08h05<sup>mn</sup>46.7<sup>s</sup> (CGS)  
36°29'N, 133°10'E h = 10km H = 08h05<sup>mn</sup>43.5<sup>s</sup> (JMA)

Ressenti dans le Japon Central.

M = 4.6 (JMA), 4.3 (Uinta Basin), 4.2 (CGS, Blue M), 4.1 (Tonto Forest).

|               |    |            |    |            |      |      |
|---------------|----|------------|----|------------|------|------|
| Nagano        | 1P | 08 05 48.0 | 1S | 08 05 50.5 |      |      |
| Matsushiro    | P  | 48.1       | S  | 49.4       |      |      |
| Matsubashi    | 1P | 58.3       | 1S | 06 18.0    |      |      |
| Dodai ra      | 1P | 06 02.0    | eS | 15.6       | 90   | 0.8  |
| Funatsu       | 1P | 07.1       | 1S | 21.0       |      |      |
| Mt Tsukuba    | 1P | 12.0       |    |            | 170  | 1.5  |
| Tokyo         | eP | 12.6       | eS | 35.0       |      |      |
| Fukui         | P  | 14.9       | S  | 41.1       |      |      |
| Hikone        | eP | 19.6       | S  | 46.2       |      |      |
| Kyosumi       | 1P | 21.4       |    |            | 210  | 1.9  |
| Abuyama       | 1P | 28.4       |    |            |      |      |
| Kyoto         | eP | 30.0       | eS | 07 01.0    |      |      |
| Oishiyama     | eP | 37.9       | 1S | 31.6       | 370  | 3.3  |
| Sendai        | eX | 38         |    |            |      |      |
| Wakaura       | eP | 38.0       | eS | 29.0       | 370  | 3.3  |
| Shiraki       | eP | 54.7       |    |            | 545  | 4.9  |
| Gilmore Creek | eP | 14 48.3    |    |            | 5680 | 51.1 |
| Blue M.       | eP | 17 23.8    |    |            | 8245 | 74.2 |
| Eureka        | eP | 44.9       |    |            | 8690 | 78.2 |
| Uinta Basin   | eP | 57.3       |    |            | 9055 | 81.5 |
| Tonto Forest  | eP | 18 19.3    |    |            | 9380 | 84.4 |

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Essaim de Matsushiro

36° 28' N, 138° 10' E. h = 0 km H = 08h23mn40.8s  
M = 3.9 (JMA)

|            |    |       |      |    |         |      |     |     |
|------------|----|-------|------|----|---------|------|-----|-----|
| Matsushiro | P  | 08 23 | 43.7 | S  | 08 23   | 44.5 | 9   | 0.1 |
| Matsumoto  | 1P |       | 48.7 | 1S |         | 53.5 | 30  | 0.3 |
| Maebashi   | eP |       | 56.5 | 1S | 24 07.1 |      | 81  | 0.7 |
| Kofu       | 1P |       | 59.2 | 1S |         | 11.4 | 96  | 0.9 |
| Kumagaya   | eP | 24    | 06.0 | eS |         | 18.4 | 115 | 1.0 |
| Gifu       | eP |       | 14   | X  |         | 43.2 | 173 | 1.6 |
| Omaezaki   | eP |       | 16.8 |    |         |      | 207 | 2.9 |
| Abuyama    | eP |       | 33.0 |    |         |      |     |     |
| Yokohama   | X  |       | 40.8 |    |         |      | 176 | 1.6 |

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Ilot Mathew

23° 08' S, 171° 0' E H = 08h29mn34s  
M = 3.5 (Nouméa)

|           |     |       |      |    |       |    |  |  |
|-----------|-----|-------|------|----|-------|----|--|--|
| Nouméa    | e1P | 08 30 | 35.8 | 1S | 08 31 | 23 |  |  |
| Ouanaham  | e1P |       | 40.2 | 1S |       | 19 |  |  |
| Poit Vila | e1P |       | 57.0 |    |       |    |  |  |

Inscrit à Koumac.

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Essaim de Matsushiro

36° 32' N, 138° 09' E h = 10 km. H = 09h08mn05.0  
M = 3.9 (JMA)

|            |    |       |      |    |         |      |     |     |
|------------|----|-------|------|----|---------|------|-----|-----|
| Matsushiro | P  | 09 08 | 07.9 | S  | 09 08   | 08.8 | 5   | 0.0 |
| Nagano     | 1P |       | 09.9 | S  |         | 12.6 | 15  | 0.1 |
| Matsumoto  | 1P |       | 12.8 |    |         |      | 36  | 0.3 |
| Karnizawa  | 1P |       | 14.3 | S  |         | 20.2 | 42  | 0.4 |
| Takada     | P  |       | 16.5 | S  |         | 25.1 | 64  | 0.6 |
| Maebashi   | 1P |       | 20.4 | 1S |         | 31.0 | 83  | 0.7 |
| Kofu       | 1P |       | 23.2 | 1S |         | 35.1 | 103 | 0.9 |
| Chichibu   | eP |       | 24.9 | 1S |         | 35.4 | 103 | 0.9 |
| Iida       | eP |       | 26.0 | eS |         | 40.8 | 117 | 1.1 |
| Nagoya     | eP |       | 36.8 | S  |         | 59.2 | 186 | 1.7 |
| Yokohama   | eP |       | 40.0 | 1S | 09 04.2 |      | 182 | 1.6 |
| Abuyama    | eP |       | 52.2 | 1S |         | 29.6 |     |     |

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Près de la cote du Chili Central

31° 55' S, 71° 2' W. h = 78 km H = 09h09mn37.0S (CGS)

M = 5.1 (Cumberland Pl), 4.3 (Wichita M), 4.1 (CGS), 4.0 (Blue M),  
3.9 (Penas, Tonto Forest), 3.8 (Uinta Basin), 3.7 (Dugway).

|             |      |         |       |      |       |      |      |      |
|-------------|------|---------|-------|------|-------|------|------|------|
| Peldehue    | 1P   | 09 10   | 01.8D | 1S   | 09 10 | 13.0 |      |      |
| Santiago    | eP   |         | 06.4  | e(S) |       | 20.1 |      |      |
| Antofagasta | e(P) | 11 37   |       | e(S) | 13 17 |      |      |      |
| Arequipa    | eP   | 13 05.7 |       |      |       |      | 1670 | 15.0 |
| La Paz      | eP   |         | 10    |      |       |      |      |      |

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|                |    |            |        |            |      |      |
|----------------|----|------------|--------|------------|------|------|
| Penas          | P  | 09 13 12.0 | S      | 09 16 50.0 | 1710 | 15.4 |
| Valdivia       | eS | 32         |        |            |      |      |
| Huancayo       | eP | 14 06.0    |        |            | 2200 | 19.8 |
| San Juan       | eP | 18 20.9    |        |            | 5510 | 49.6 |
| South Pole     | eP | 19 27.8    |        |            | 6510 | 58.6 |
| Cumberland Pl. | eP | 20 29.8    |        |            | 7570 | 68.1 |
| Wichita M.     | eP | 45.5       | e(PcP) | 20 57.8    | 7870 | 70.8 |
| Lanto          | P  | 21 02.9    |        |            | 8145 | 73.3 |
| Albuquerque    | eP | 05.5       |        |            | 8220 | 74.0 |
| Tonto Forest   | eP | 15.5       | ePcP   | 21 27.4    | 8400 | 75.6 |
| Uinta Basin    | eP | 39.1       |        |            | 8880 | 79.9 |
| Dugway         | eP | 45.7       |        |            | 9010 | 81.1 |
| Eureka         | eP | 50.6       |        |            | 9110 | 82.0 |
| Blue M.        | eP | 22 13.9    |        |            | 9655 | 86.9 |

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Tien-Chan méridional

40°0 N ; 73°2 E ; h = 104 km ; H = 09h.22<sup>mn</sup>48<sup>s</sup>. (URSS)

|               |      |                   |    |          |      |      |
|---------------|------|-------------------|----|----------|------|------|
| Andidjan      | iP   | 09 23 09          |    |          | 100  | 0.9  |
| Garm          | iP   | 28.1 <sup>C</sup> |    |          | 270  | 2.4  |
| Khorog        | eP   | 34                | 1S | 09 24 10 | 310  | 2.8  |
| Frounze       | eP   | 37                | 1S | 19       | 330  | 3.0  |
| Prejvalsk     | eP   | 57                |    |          | 510  | 4.6  |
| Dehra Dun     | e(P) | 25 06             | e  | 27 06    |      |      |
| New Dehli     | e(P) | 24                |    |          |      |      |
| Semipalatinsk | eP   | 31.3              |    |          | 1230 | 11.5 |
| Bodajbo       | P    | 29 04.5           |    |          | 3510 | 31.6 |
| Tiksi         | eP   | 30 32             |    |          | 4645 | 41.8 |

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Nouvelles Hébrides (Ile Vaté)

H = 09h.31<sup>mn</sup>14<sup>s</sup>. (Nouméa)

|            |    |                   |    |          |  |  |
|------------|----|-------------------|----|----------|--|--|
| Luganville | iP | 09 31 21.1        | 1S | 09 31 35 |  |  |
| Port Vila  | iP | 36.7 <sup>D</sup> | 1S | 43.5     |  |  |

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Ouest des Iles Carolines.

11°2 N ; 139°1 E ; h = 33 km ; H = 09h.33<sup>mn</sup>33<sup>s</sup>. (CGS)

M. = 5.1(North Pole); 5.0(Blue M. - Uinta Basin); 4.8(College - CGS - Dugway); 4.3(Tonto Forest)

|          |    |            |  |  |      |      |
|----------|----|------------|--|--|------|------|
| Guah     | eP | 09 35 03.0 |  |  | 680  | 6.1  |
| Brisbane | eP | 41 10      |  |  | 4500 | 40.5 |
| Palmer   | eP | 44 50.5    |  |  | 7955 | 71.6 |

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|               |     |       |                   |  |       |       |
|---------------|-----|-------|-------------------|--|-------|-------|
| Barrow        | eP  | 09 44 | 50.5              |  | 7920  | 71.3  |
| College       | eP  |       | 58.0              |  | 8090  | 72.8  |
| Gilmore Creek | eP  |       | 59.2              |  | 8100  | 72.9  |
| North Pole    | eP  | 45    | 51.0              |  | 9110  | 82.0  |
| Mould Bay     | eP  |       | 51.1 <sup>D</sup> |  | 9110  | 82.0  |
| Mineral       | eP  | 46    | 28.7 <sup>D</sup> |  |       |       |
| Jamestown     | eP  |       | 38.0 <sup>D</sup> |  | 10145 | 91.3  |
| Blue M.       | iP  |       | 38.2 <sup>D</sup> |  | 10180 | 91.6  |
| Eureka        | eP  |       | 50.9              |  | 10470 | 94.2  |
| Goldstone     | P   |       | 53.0              |  | 10530 | 94.8  |
| Bozeman SSS   | eP  |       | 55.0              |  | 10580 | 95.2  |
| Dugway        | eP  | 47    | 00.1              |  | 10700 | 96.3  |
| Uinta Basin   | eP  |       | 09.8              |  | 10945 | 98.5  |
| Tonto Forest  | eP  |       | 15.2              |  | 11055 | 99.5  |
| La Paz        | PKP | 53    | 18                |  | 17000 | 153.0 |

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Région de la Nouvelle Bretagne.

H = 10<sup>h</sup>. 37<sup>mn</sup> 21<sup>s</sup>.; M. = 3.9 (Rabaul)

|                |    |       |                   |    |       |      |
|----------------|----|-------|-------------------|----|-------|------|
| Rabalanakaia   | iP | 10 37 | 45.0 <sup>D</sup> |    |       |      |
| Wanliss Street | iP |       | 45.2              |    |       |      |
| Sulphur        | iP |       | 45.4              |    |       |      |
| Rabaul         | iP |       | 45.6              | 1S | 10 38 | 04.0 |
| Keravat        | iP |       | 46                | 1S |       | 07   |

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Au large de l'Amérique Centrale.

12°7 N ; 88°8 W ; h = 60km ; H = 10<sup>h</sup>. 37<sup>mn</sup> 57<sup>s</sup>. (CGS)

Ressenti à San Salvador.

M. = 4.2 (Wichita M.); 4.0 (Uinta Basin); 3.9 (CGS); 3.6 (Blue M.); 3.2 (Tonto Forest);

|                 |    |       |                   |      |       |      |      |      |
|-----------------|----|-------|-------------------|------|-------|------|------|------|
| San Salvador    | iP | 10 38 | 16.0 <sup>D</sup> | eS   | 10 38 | 24.5 | 110  | 1.0  |
| Presa E. Juarez | iP |       | 39 43.8           | i(S) | 41    | 15.5 | 820  | 7.4  |
| Vista Hermosa   | iP |       | 40 06.5           | iS   |       | 47   |      |      |
| Wichita M.      | eP |       | 43 02.9           | epP  | 43    | 18.2 | 2620 | 23.6 |
| Tonto Forest    | eP |       | 59.5              |      |       |      | 3290 | 29.6 |
| Uinta Basin     | eP | 44    | 30.0              |      |       |      | 3870 | 33.0 |
| Blue M.         | eP | 45    | 29.3              |      |       |      | 4470 | 40.2 |
| Frobisher       | eP | 47    | 08.7 <sup>D</sup> |      |       |      | 5880 | 52.9 |

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Sicile.

Réplique ; H = 11<sup>h</sup>.45<sup>mn</sup>(00)<sup>s</sup>. (ING); M. = 3.63(Messina)

|                   |     |            |   |            |
|-------------------|-----|------------|---|------------|
| Messina           | e   | 11 45 50.5 | 1 | 11 46 30.5 |
| La Mourre         | eIP | 46 57.9    |   |            |
| St. Paul en Foret | eIP | 59.6       |   |            |
| Lorgues           | eIP | 47 00.9    |   |            |

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Exploiqion de 3.7 Tonnes

50° 37' N ; 14° 21' E ; h = 71km ; (Pruhonice)

|                |      |            |      |          |
|----------------|------|------------|------|----------|
| Pruhonice      | eIPg | 11 59 59.3 | eISg | 12 00 10 |
| Kasperské Hory | ePg  | 12 00 14   | eISg | 34       |

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Essaim de Matsushiro

38° 28' N ; 138° 12' E ; h = 0km ; H = 12<sup>h</sup>.11<sup>mn</sup>52.7<sup>s</sup>. (JMA)

M. = 3.7(JMA)

|            |    |            |    |            |     |     |
|------------|----|------------|----|------------|-----|-----|
| Matsushiro | P  | 12 11 55.8 | S  | 12 11 56.7 | 8   | 0.1 |
| Nagano     | IP | 57.6       | S  | 12 00.0    | 22  | 0.2 |
| Matsumoto  | eP | 12 01.1    | IS | 05.6       | 32  | 0.3 |
| Maebashi   | eP | 09.4       | IS | 19.1       | 78  | 0.7 |
| Toyama     | P  | 11.0       | eS | 24         | 93  | 0.8 |
| Kofu       | eP | 11.6       | IS | 23.6       | 95  | 0.9 |
| Gi fu      | eP | 27.3       | S  | 45.8       | 176 | 1.6 |
| Abuyama    | IP | 44.8       |    |            |     |     |

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Basse Californie

24° 3' N ; 111° 5' W ; h = 33km ; H = 12<sup>h</sup>.30<sup>mn</sup>46.3<sup>s</sup>. (CGS)  
24° 46' N ; 111° 32' W ; H = 12<sup>h</sup>.30<sup>mn</sup>42<sup>s</sup>. (Tacubaya)

M. = 6.1(Tonto Forest); 5.8(La Palma); 5.8(Penas); 5.5(Nurmijaerwi... Golden... North Pole); 5.4(Mould Bay - Sodankylä); 5.3(CGS); 5.2(Albuquerque - Wichita M. - Dugway - Uinta Basin - Newport - Cumberland Pl); 5.1(Palmer... Gilmore Creek); 5.0(Pedro Dome... Eureka); 4.9(Blue M.)

|             |    |          |    |            |     |     |
|-------------|----|----------|----|------------|-----|-----|
| Mazatlan    | e  | 12 32 39 |    | 535        | 4.8 |     |
| Tucson      | IP | 42.5C    | eL | 12 34 16.0 | 890 | 8.0 |
| Guafalajara | eP | 55       |    | 930        | 8.4 |     |
| Leon        | IP | 33 07    |    | 1070       | 9.6 |     |



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|                   |      |       |                   |                     |       |         |      |      |
|-------------------|------|-------|-------------------|---------------------|-------|---------|------|------|
| Tonto Forest      | eP   | 12 33 | 09.7              |                     |       |         | 1110 | 10.0 |
| Presa Infiernillo | eP   |       | 24.5              | 1(S)                | 12 35 | 45      | 1200 | 10.8 |
| Pasadena          | 1P   |       | 30                | eL                  |       | 35.8    | 1270 | 11.4 |
| Albuquerque       | eP   |       | 32.0              | e                   |       | 35 40.0 | 1280 | 11.5 |
| Lubbock           | eP   |       | 45.5              | eLg                 |       | 37 08.0 | 1390 | 12.5 |
| Tacubaya          | eP   |       | 46                | eS                  |       | 36 24   | 1390 | 12.5 |
| Nat.Univ. Mexico  | 1P   |       | 48                | eS                  |       | 21      | 1385 | 12.5 |
| Priest            | eP   | 34    | 06.5 <sup>C</sup> |                     |       |         | 1580 | 14.2 |
| Wichita M.        | eP   |       | 21.2              | eS                  |       | 37 15   | 1700 | 15.3 |
| San Luis Dam      | 1P   |       | 21.2              |                     |       |         | 1690 | 15.2 |
| Manzanillo        | eS   |       | 24                |                     |       |         | 940  | 8.5  |
| Jamestown         | eP   |       | 24.3 <sup>C</sup> |                     |       |         | 1730 | 15.6 |
| Mt. Hamilton      | eP   |       | 24.5 <sup>C</sup> |                     |       |         | 1730 | 15.6 |
| Vista Hermosa     | 1P   |       | 27                | e(Sr <sub>1</sub> ) | 38    | 09      | 1725 | 15.5 |
| Eureka            | 1P   |       | 27.7              |                     |       |         | 1730 | 15.6 |
| Dugway            | 1P   |       | 30.8              |                     |       |         | 1770 | 15.9 |
| Uinta Basin       | eP   |       | 32.1              | eS                  | 37    | 42      | 1790 | 16.1 |
| Vera Cruz         | 1(P) |       | 33                |                     |       | 52      | 1685 | 15.1 |
| Golden            | eP   |       | 34.5              | eS                  |       | 45.0    | 1800 | 16.2 |
| Berkeley          | eP   |       | 35.5 <sup>C</sup> | S                   |       | 32      | 1810 | 16.3 |
| Flaming Gorge     | eP   |       | 39.0              |                     |       |         | 1855 | 16.7 |
| Presa B. Juarez   | eP   |       | 44.8 <sup>C</sup> |                     |       |         | 1885 | 17.0 |
| Oroville          | eP   |       | 49.0              |                     |       |         | 1930 | 17.4 |
| Tulsa             | 1P   |       | 53.5              | S                   | 38    | 20.0    | 1980 | 17.8 |
| Mineral           | eP   |       | 59.0 <sup>C</sup> |                     |       |         | 2010 | 18.1 |
| Fayetteville      | 1P   | 25    | 05.2 <sup>C</sup> | i                   | 40    | 38.2    | 2110 | 19.0 |
| Manhattan         | eP   |       | 13.0              |                     |       |         | 2170 | 19.5 |
| Blue M.           | eP   |       | 28.7              |                     |       |         | 2330 | 21.0 |
| Butte             | eP   |       | 36.0              | eL                  | 42    | 23.0    | 2410 | 21.7 |
| La Palma          | e!P  |       | 51.5              |                     |       |         | 2590 | 23.3 |
| Longmire          | 1P   |       | 59.2 <sup>C</sup> | eS                  | 40.5- |         | 2655 | 23.9 |
| Hungry Hotse      | eP   | 36    | 00.0              | eLG                 | 43    | 22.0    | 2680 | 24.1 |
| Newport           | 1P   |       | 02.0              |                     |       |         | 2700 | 24.3 |
| Nordman           | eP   |       | 05.0              |                     |       |         | 2745 | 24.7 |
| Cumberland Pl.    | eP   |       | 08.9              |                     |       |         | 2790 | 25.1 |
| Oak Ridge         | eP   |       | 18.7              |                     |       |         | 2910 | 26.2 |
| Edmonton          | eP   |       | 43.0              |                     |       |         | 3210 | 28.9 |
| Quito             | P    | 38    | 14.0 <sup>D</sup> | S                   | 44    | 40      | 4470 | 40.2 |
| Caracas           | eP   |       | 58.0              |                     |       |         | 4945 | 44.5 |
| Palmer            | eP   | 39    | 01.5              |                     |       |         | 5020 | 45.2 |
| Black Rapids      | 1P   |       | 03.1              |                     |       |         | 5030 | 45.3 |
| Gilmore Creek     | eP   |       | 14.0              |                     |       |         | 5200 | 46.8 |
| College           | 1P   |       | 14.9              |                     |       |         | 5200 | 46.8 |
| Pedro Dome        | eP   |       | 15.0              |                     |       |         | 5200 | 46.8 |
| Sparrevohn        | eP   |       | 19.0              |                     |       |         | 5280 | 47.5 |
| Frobisher         | eP   |       | 28.0              |                     |       |         | 5390 | 48.5 |
| Huancayo          | eP   |       | 45.0              |                     |       |         | 5620 | 50.6 |
| Resolute          | eP   |       | 47.0              |                     |       |         | 5690 | 51.2 |
| North Pole        | eP   |       | 54.6              |                     |       |         | 5890 | 52.2 |
| Mould Bay         | eP   |       | 54.6 <sup>D</sup> | i                   | 43    | 17.0    | 5790 | 52.1 |
| Barrow            | eP   | 40    | 04.8              |                     |       |         | 5945 | 53.5 |
| Penas             | P    |       | 40.8              |                     |       |         | 6480 | 58.3 |

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|               |                   |       |                      |     |          |       |       |
|---------------|-------------------|-------|----------------------|-----|----------|-------|-------|
| La Paz        | P                 | 12 40 | 43.0                 |     |          | 6520  | 58.7  |
| Antofagasta   | eP                | 41    | 08.0                 |     |          | 6905  | 62.2  |
| Station Nord  | 1P                |       | 35.7                 |     |          | 7420  | 66.8  |
| Kevo          | eP                | 43    | 02                   |     |          | 9070  | 81.6  |
| Kiruna        | 1P                |       | 02.4                 |     |          | 9060  | 81.5  |
| Lillehammer   | 1P                |       | 08.6                 |     |          | 9235  | 83.1  |
| Sodankylä     | 1P                |       | 12.1                 |     |          | 9270  | 83.4  |
| Kongsberg     | 1P                |       | 13.6                 |     |          | 9280  | 83.5  |
| Lisboa        | P                 |       | 16.8                 |     |          | 9350  | 84.4  |
| Uméa          | 1P                |       | 17.2                 |     |          | 9380  | 84.4  |
| Oulu          | eP                |       | 19                   |     |          | 9450  | 85.1  |
| Folinigre     | eP                |       | 20.0                 |     |          | 9425  | 84.8  |
| Le Pertre     | eP                |       | 20.6                 |     |          | 9430  | 84.9  |
| Kajaani       | 1P                |       | 26.3                 |     |          | 9590  | 86.3  |
| Toledo        | eP                |       | 31                   | es  | 12 54 22 | 9675  | 87.1  |
| St. Saulge    | eP                |       | 33.8                 |     |          | 9775  | 88.0  |
| Sommée Lormes | eP                |       | 34.9                 |     |          | 9785  | 88.1  |
| Bensberg      | eP                |       | 35                   |     |          | 0745  | 87.7  |
| Nurmijaerwi   | 1P                |       | 35.0 <sup>D</sup>    |     |          | 9810  | 88.3  |
| Les Buteaux   | eP                |       | 38.5                 |     |          | 9810  | 88.3  |
| Brébeuf       | eS                |       | 43.7--               |     |          | 4125  | 37.1  |
| Ifrane        | P                 |       | 43 44.5              |     |          | 9945  | 89.5  |
| Bangui        | ePKP <sub>1</sub> |       | 49 42.9              | 1PP | 51 11.9  | 13745 | 123.7 |
| Quetta        | ePKP              |       | 49 47.7 <sup>C</sup> |     |          | 13980 | 125.8 |
| Broken Hill   | ePKP <sub>1</sub> | 50    | 12                   |     |          | 15680 | 141.1 |
| Karoi         | ePKP              |       | 14                   |     |          | 15885 | 142.9 |
| Chileka       | ePKP              |       | 24                   |     |          | 16380 | 147.4 |

inscrit à Ponta Delgada - Pavia - l'Aquila - M<sup>1</sup>Bour.

XXVIII. - 26 Janvier

Iles Santa Cruz.

12°0 S ; 167°0 E ; h = 215<sup>km</sup> ; H = 12<sup>h.55<sup>mm</sup></sup>48.2<sup>s.</sup> (CGS)  
 12°6 S ; 167°0 E ; H = 12<sup>h.55<sup>mm</sup></sup>47<sup>s.</sup> (Nouméa)

M. = 5.5 (College) ; 5.4 (Eureka) ; 5.3 (Gilmore Creek) ; Port Moresby ;  
 5.2 (Newport) ; 5.0 (Tonto Forest - CGS) ; 4.9 (Palmer) ; 4.8 (Digway -  
 Wichita M.) ; 4.7 (Blue M. - Bozeman SSS) ; 4.5 (Uinta Basin) ; 4.4 (Nouméa)

|              |     |       |                   |    |            |      |      |
|--------------|-----|-------|-------------------|----|------------|------|------|
| Luganville   | 1P  | 12 56 | 38.5              | 1S | 12 57 16.5 | 320  | 2.9  |
| Port Vila    | eP  | 57    | 07.7              | 1S | 58 07.5    | 590  | 5.3  |
| Honiara      | eP  |       | 37.4              |    |            | 845  | 7.6  |
| Ouanaham     | 1P  |       | 43.9              | 1S | 59 20.0    | 910  | 8.2  |
| Koumac       | 1P  |       | 47.9              | 1S | 22.0       | 930  | 8.4  |
| Nouméa       | 1P  | 58    | 05.1              | 1S | 52.5       | 1080 | 9.7  |
| Esa'Ala      | 1P  |       | 59 30             |    |            |      |      |
| Keravat      | e1P |       | 34 <sup>D</sup>   |    |            |      |      |
| Rabaul       | 1P  |       | 35.8              |    |            |      |      |
| Port Moresby | 1P  | 13 00 | 04.0 <sup>D</sup> |    |            | 2190 | 19.7 |

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|                   |                   |       |                   |       |         |      |       |       |
|-------------------|-------------------|-------|-------------------|-------|---------|------|-------|-------|
| Brisbane          | iP                | 13 00 | 05.8              | 1     | 13 00   | 08.6 | 2210  | 19.9  |
| AfiamaLu          | eP                |       | 13.0              | e     | 02 30   |      | 2300  | 20.7  |
| Charters Towers   | iP                |       | 19 <sup>C</sup>   | is    | 04 04   |      | 2355  | 21.2  |
| Toolangi          | eP                | 01    | 51.0              |       |         |      | 3500  | 31.5  |
| Warramunga        | eP                |       | 56.5              |       |         |      | 3570  | 32.1  |
| Mundaring         | eP                | 04    | 25                |       |         |      |       |       |
| Baguio            | e:iP              |       | 53.0              |       |         |      | 6010  | 54.1  |
| Matsushiro        | P                 | 05    | 05                | is    | 11 34   |      |       |       |
| Eyrd              | iP                | 07    | 06.6              |       |         |      | 8320  | 74.9  |
| South Pole        | eP                |       | 21.3              |       |         |      | 8610  | 71.5  |
| Big Mountain      | eP                |       | 22.6              |       |         |      | 8655  | 77.9  |
| Palmer            | eP                |       | 42.5              |       |         |      | 9070  | 81.6  |
| Mts Sheep Creek   | eP                |       | 47.0              |       |         |      | 9145  | 82.3  |
| Priest            | eP                |       | 52                |       |         |      | 9280  | 83.5  |
| Black Rapids      | eP                |       | 55.4              |       |         |      | 9330  | 84.0  |
| Jamestown         | eP                |       | 55.5              | e     | 08 48.0 |      |       |       |
| College           | eP                |       | 56.3              |       |         |      | 9380  | 84.4  |
| Pedro Dome        | eP                |       | 57.2              |       |         |      | 9400  | 84.6  |
| Gilmore Creek     | eP                |       | 57.4              |       |         |      | 9390  | 84.5  |
| Pasadena          | eP                |       | 59.0              |       |         |      | 9420  | 84.8  |
| Barrow            | eP                | 08    | 11.6              |       |         |      | 9690  | 87.2  |
| Eureka            | iP                |       | 17.0 <sup>D</sup> | i     | 09 12.1 |      | 9790  | 88.1  |
| Blue M.           | eP                |       | 19.0              | e     | 11.0    |      | 9880  | 88.9  |
| Newport           | eP                |       | 25.0              |       |         |      | 10010 | 90.1  |
| Nordman           | eP                |       | 26.0              |       |         |      | 10030 | 90.3  |
| Tucson            | eP                |       | 26.8              |       |         |      | 10020 | 90.2  |
| Tonto Forest      | eP                |       | 27.2              | epP   | 22.6    |      | 10030 | 90.3  |
| Dugway            | eP                |       | 27.9              |       |         |      | 10080 | 90.7  |
| Hungry Horse      | eP                |       | 33.8              | e     | 28.1    |      | 10230 | 92.1  |
| Butte             | eP                |       | 36.2              |       |         |      | 10270 | 92.4  |
| Uinta Basin       | eP                |       | 37.8              |       |         |      | 10345 | 93.1  |
| Bozeman SSS       | iP                |       | 39.0              | e(SP) | 34.0    |      | 10320 | 92.9  |
| Albuquerque       | eP                |       | 44.8              | e     | 40.0    |      | 10480 | 94.3  |
| Wichita M.        | eP                | 09    | 12.0              |       |         |      | 11180 | 100.6 |
| Oulu              | PKP               | 14    | 15                |       |         |      |       |       |
| Kajaani           | PKP               |       | 15.6              |       |         |      | 13480 | 121.3 |
| Umea              | iPKP              |       | 20.3              |       |         |      |       |       |
| Nurmijaerwi       | iPKP              |       | 23.0              |       |         |      | 13870 | 124.8 |
| Bulawayo          | iPKP              |       | 29 <sup>D</sup>   |       |         |      |       |       |
| Karoi             | iPKP              |       | 31                |       |         |      |       |       |
| Broken Hill       | ePKP              |       | 36                |       |         |      |       |       |
| Les Buteaux       | ePKP              |       | 52.0              |       |         |      |       |       |
| Sommeer Lormes    | ePKP              |       | 53.2              |       |         |      | 15845 | 142.6 |
| Vouglans          | ePKP              |       | 55                | e     | 15 09   |      |       |       |
| St. Saulge        | ePKP              |       | 55.1              |       |         |      | 15880 | 142.9 |
| Roselend          | ePKP              |       | 55.4              |       |         |      |       |       |
| Lanslevillard     | e1PKP             |       | 58.0              | ei    | 14 57.9 |      |       |       |
| Toulx Ste Croix   | ePKP <sub>1</sub> |       | 58.4              |       |         |      |       |       |
| Monteynard        | iPKP              |       | 58.5 <sup>C</sup> |       |         |      |       |       |
| St. Paul en Foret | ePKP <sub>1</sub> | 15    | 00.4              |       |         |      |       |       |
| La Mourre         | ePKP <sub>1</sub> |       | 01.4              |       |         |      |       |       |
| Lorgues           | ePKP <sub>1</sub> |       | 01.6              |       |         |      |       |       |

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|          |                   |            |     |            |       |       |
|----------|-------------------|------------|-----|------------|-------|-------|
| Bangui   | 1PKP <sub>1</sub> | 13 15 06.1 | 1PP | 13 18 42.1 | 16410 | 147.7 |
| Porto    | PKP               | 17.0       |     |            | 16810 | 151.3 |
| Toledo   | 1PKP <sub>2</sub> | 20         | 1   | 15 30      |       |       |
| Ifrane   | ei                | 56         |     |            |       |       |
| Averroes | e                 | 59.5       |     |            |       |       |

inscrit à De Bilt - Clermont - Bensberg - Istanbul UTI - Presa  
Infiernillo - Strasbourg - Uccle - Ksara - Rabat.

XXIX. - 26 Janvier

Nouvelles Hébrides (Ile Tanna)

18°8 S ; 169°0 E ; H = 13<sup>h</sup>.25<sup>mn</sup>08<sup>s</sup>. ; M. = 3.4 (Nouméa)

|            |     |                         |    |          |  |  |
|------------|-----|-------------------------|----|----------|--|--|
| Port Vila  | 1P  | 13 25 35.5 <sup>C</sup> | 1S | 13 25 57 |  |  |
| Ouanaham   | 1P  | 50.4 <sup>(C)</sup>     | 1S | 26 19.5  |  |  |
| Luganville | eiP | 26 04.6                 |    |          |  |  |
| Nouméa     | 1P  | 12.8 <sup>C</sup>       | 1S | 27 01.5  |  |  |

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Explosion de 3.7 Tonnes

50°37' N ; 14°21' E ; \* = (Pruhonicé)

|                |      |            |      |            |     |     |
|----------------|------|------------|------|------------|-----|-----|
| Pruhonicé      | eiPg | 13 30 19.4 | eiSg | 13 30 28.4 | 71  | 0.6 |
| Kasperské Hory | eiPg | 35         |      |            | 172 | 1.5 |
| Erlangen       | e(P) | 31 18.6    |      |            |     |     |

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Région de la Nouvelle Bretagne

H = 14<sup>h</sup>.18<sup>mn</sup>49<sup>s</sup>. ; M. = 4.7 (Rabaul)

|              |      |                         |    |            |  |  |
|--------------|------|-------------------------|----|------------|--|--|
| Rabaul       | 1P   | 14 19 30.2 <sup>D</sup> | 1S | 14 20 01.5 |  |  |
| Keravat      | 1P   | 31                      | 1S | 19 55.5    |  |  |
| Rabalanakaia | e(P) | 32.4 <sup>D</sup>       |    |            |  |  |
| Port Moresby | eP   | 20 51.5                 | eS | 22(20)     |  |  |

XXXII. 26 Janvier  
Iles Santa Cruz

12°0S, 167°0E. h = 249km H = 15<sup>h</sup>14<sup>mn</sup>13.7<sup>s</sup> (CGS)  
12°1/4S, 166°3/4E H = 15<sup>h</sup>14<sup>mn</sup>16<sup>s</sup> (Nouméa)  
M = 5.2 (College), 5.0 (Gilmore Creek), 4.6 (Palmer, CGS), 4.4  
(Tonto Forest), 4.2 (Uinta Basin, Blue M)

|            |     |                           |    |          |     |     |
|------------|-----|---------------------------|----|----------|-----|-----|
| Luganville | 1P  | 15 15 09.2 <sup>(D)</sup> | 1S | 15 15 50 | 370 | 3.3 |
| Port Vila  | eiP | 39.2                      | 1S | 16 4x    | 630 | 5.7 |

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|                 |      |       |                   |    |          |       |      |
|-----------------|------|-------|-------------------|----|----------|-------|------|
| Koumac          | eIP  | 15 16 | 20.2              | 1S | 15 18 07 | 970   | 8.7  |
| Nouméa          | eP   |       | 39.8 <sup>C</sup> |    |          | 1120  | 10.1 |
| Port Moresby    | eP   | 18    | 27                |    |          |       |      |
| Brisbane        | 1P   |       | 30.8              |    |          | 2245  | 20.2 |
| Charters Towers | 1P   |       | 43.5 <sup>D</sup> |    |          | 2330  | 21.4 |
| Eyrd            | eP   | 25    | 29.6              |    |          | 8356  | 75.2 |
| Big M.          | eP   |       | 42.0              |    |          | 8620  | 77.6 |
| South Pole      | eP   |       | 44.8              |    |          | 8655  | 77.9 |
| Palmer          | eP   | 26    | 03.0              |    |          | 9020  | 81.2 |
| Mts Sheep Creek | eP   |       | 07.0              |    |          | 9110  | 82.0 |
| Black Rapids    | eP   |       | 15.0              |    |          | 9290  | 83.6 |
| College         | 1P   |       | 16.9              |    |          | 9330  | 84.0 |
| Pedro Dome      | eP   |       | 17.5              |    |          | 9355  | 84.2 |
| Gilmore Creek   | eP   |       | 17.7              |    |          | 9355  | 84.2 |
| Woody           | eP   |       | 21                |    |          | 9390  | 84.5 |
| Blue M.         | eP   |       | 40.0              |    |          | 9845  | 88.6 |
| Tonto Forest    | eP   |       | 48.0              |    |          | 10010 | 90.1 |
| Uinta Basin     | eP   | 27    | 00.8              |    |          | 10320 | 92.9 |
| Kajaani         | ePKP | 32    | 37                |    |          |       |      |
| Oulu            | ePKP |       | 37                |    |          |       |      |
| Uméa            | 1PKP |       | 41.6              |    |          |       |      |
| Nurmijaervi     | 1PKP |       | 44.7              |    |          |       |      |

XXXIII. 26 Janvier

Est de l'île du Nord (Nouvelle Zélande)

36° 6'S, 179° 9'W. h = 17km.

H = 16<sup>h</sup>19<sup>mm</sup>04.5<sup>s</sup> (CGS)

M = 5.5 (Wellington)

|                 |                   |    |                      |     |          |       |       |
|-----------------|-------------------|----|----------------------|-----|----------|-------|-------|
| Gisborne        | eP                | 16 | 19 48                | eS  | 16 20 25 |       |       |
| Karapiro        | eP                |    | 20 07                | eS  | 54       |       |       |
| Onerahi         | eP                |    | 29                   |     |          |       |       |
| Wellington      | eP                |    | 38                   | eS  | 21 47    | 690   | 6.2   |
| Monowai         | eP                |    | 22 25                |     |          |       |       |
| Nouméa          | eP                |    | 23 24.3 <sup>C</sup> |     |          | 2055  | 18.5  |
| Koumac          | 1P                |    | 45.7 <sup>C</sup>    |     |          | 2345  | 21.1  |
| Port Vila       | e1P               |    | 54.7                 |     |          | 2390  | 21.5  |
| Luganville      | 1P                |    | 24 19.3 <sup>D</sup> |     |          | 2655  | 23.9  |
| Brisbane        | eP                |    | 25.5                 | e   | 39 30    | 2755  | 24.8  |
| Toolangi        | eP                |    | 52.0                 |     |          | 3055  | 27.5  |
| Charters Towers | 1P                |    | 25 48                |     |          | 3755  | 33.8  |
| Warramunga      | eP                |    | 27 05.5              | e   | 34 51.5  | 4790  | 43.1  |
| Eyrd            | eP                |    | 53.3                 |     |          | 5470  | 49.2  |
| Mundaring       | eP                |    | 28 15.1 <sup>C</sup> |     |          | 5790  | 52.1  |
| South Pole      | eP                |    | 27.4                 | e   | 28 39.1  | 5955  | 53.6  |
| Gilmore Creek   | eP                |    | 33 20.5              |     |          | 11600 | 104.4 |
| Wichita M.      | ePP               |    | 37 37.9              |     |          |       |       |
| Mould Bay       | PKP               |    | 50.0                 |     |          | 13200 | 118.8 |
| North Pole      | PKP               |    | 50.5                 |     |          | 13200 | 118.8 |
| Bangu           | 1PKP <sub>1</sub> | 38 | 37.3                 | 1PP | 42 20.5  | 15970 | 143.7 |
| Sodankylae      | 1PKP <sub>1</sub> |    | 41.8                 |     |          | 16190 | 145.7 |
| Kiruna          | 1PKP              |    | 44.7 <sup>C</sup>    |     |          |       |       |
| Oulu            | ePKP              |    | 47                   |     |          |       |       |
| Kajaani         | 1PKP              |    | 48.3                 |     |          | 16420 | 147.8 |

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|             |       |            |  |       |       |
|-------------|-------|------------|--|-------|-------|
| Lamto       | KPK   | 18 38 50.2 |  | 16600 | 149.4 |
| Uméa        | 1PKP  | 52.9       |  |       |       |
| Nurmijaervi | 1PKP  | 56.6       |  | 18820 | 151.4 |
| Uppsala     | 1PKP2 | 39 14.8    |  | 17120 | 154.1 |

inscrit à Uinta Basin.

XXXIV. 26 janvier  
Pyrénées françaises

Région d'Arette (43° 1N, 0° 7W) H = 18<sup>h</sup>48.2<sup>mn</sup>

|                 |     |            |     |            |
|-----------------|-----|------------|-----|------------|
| Bagnères        | ePg | 18 48 18.3 | 1Sg | 18 48 27.5 |
| Logrono         | ePn | 35         | eSn | 54         |
| Toulx Ste Croix | ePg | 49 18.8    |     |            |
| St Saulge       | eSg | 50 42.8    |     |            |
| Les Buteaux     | eSg | 48.0       |     |            |
| Sommée Lormes   | eSg | 53.6       |     |            |

XXXV. 26 janvier  
Données insuffisantes

|                 |    |             |
|-----------------|----|-------------|
| Nouméa          | 1P | 19 03 09.6C |
| Koumac          | 1P | 28.2        |
| Brisbane        | 1P | 05 02.9D    |
| Canberra        | 1P | 43.8D       |
| Charters Towers | 1P | 56.8        |
| Port Moresby    | eP | 06 17       |
| Warramunga      | eP | 07 25.5     |
| South Pole      | eP | 10 19.3     |

XXXVI. 26 janvier  
Nouvelles Hébrides (île Espiritu Santo)

H = 19<sup>h</sup>51<sup>mn</sup>03<sup>s</sup>.

M = 4.4 (Nouméa)

|           |     |            |    |            |
|-----------|-----|------------|----|------------|
| Port Vila | e1P | 19 51 48.1 |    |            |
| Ouanaham  | e1P | 52 23.4    | 1S | 19 53 25.5 |
| Koumac    | 1P  | 30.6D      | 1S | 4.5        |
| Nouméa    | 1P  | 46.8       | 1S | 54 07      |

XXXVII. 26 janvier  
Crête médiane de l'Océan Atlantique Nord

30° 0N, 42° 6W. h = 33 km. H = 23<sup>h</sup>02<sup>mn</sup>54<sup>s</sup> (CGS)

M = 4.9 (Penas), 4.5 (Uinta Basin, CGS), 4.4 (Wichita M, Dugway, Tonto Forest)

|               |    |            |      |      |
|---------------|----|------------|------|------|
| Wichita M.    | eP | 23 11 23.8 | 5220 | 47.0 |
| Penas         | P  | 12 05.2    | 5810 | 52.3 |
| La Paz        | P  | 05.7       | 5820 | 52.4 |
| Uinta Basin   | eP | 21.0       | 6055 | 54.5 |
| Edmonton      | eP | 26.0       | 6145 | 55.3 |
| Dugway        | eP | 39.1       | 6330 | 57.0 |
| Tonto Forest. | eP | 41.8       | 6370 | 57.3 |

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College eP 23 14 00.0 7700 69.3

I. 27 janvier  
Données insuffisantes

|           |    |                         |    |            |
|-----------|----|-------------------------|----|------------|
| Karachi   | eP | 00 32 18.5 <sup>D</sup> | eS | 00 32 57.8 |
| Quetta    | eP | 33 13.7 <sup>C</sup>    | eS | 34 32      |
| Poona     | eP | 58                      |    |            |
| New Delhi | eP | 34 32                   |    |            |
| Chatra    | iP | 36 17 <sup>D</sup>      |    |            |

II. 27 janvier  
Crête médiane de l'Océan Atlantique Nord

29° 9N, 42° 8W. h = 34 km. H = 00h48mn35.6<sup>S</sup> (CGS)  
30° 7N, 42° 7W H = 00h48mn40<sup>S</sup> (URSS)

M = 6.7 (Bangui), 5.4 (Station Nord, Albuquerque, Uinta Basin), 5.3 (Kajaani, Tonto Forest, Addis Ababa), 5.2 (Wichita M), 5.1 (Dugway, College, MLV Moxa), 5.0 (CGS, URSS, Palmer), 4.8 (Gilmore Creek), 4.6 (Cumberland Pl, Penas), 4.3 (Blue M), 4.2 (Golden).

|                 |      |                      |        |            |      |      |
|-----------------|------|----------------------|--------|------------|------|------|
| Ponta Delgada   | P    | 00 52 24             | (S)    | 00 55 16   | 1805 | 16.2 |
| San Juan        | eP   | 53 53                | eS     | 58 21      | 2700 | 24.3 |
| Caracas         | e(P) | 54 22                | eS     | 59 44      | 3290 | 29.6 |
| Averroes        | eP   | 45                   |        |            | 3555 | 30.2 |
| Ifrane          | iP   | 55 01.6 <sup>C</sup> |        |            | 3565 | 32.1 |
| Almería         | eP   | 18                   |        |            | 3800 | 34.2 |
| Cumberland Pl   | eP   | 37.4                 |        |            | 4020 | 38.2 |
| Le Pertre       | eP   | 40.4                 |        |            | 4070 | 36.6 |
| Gorron          | eP   | 42.1                 |        |            | 4090 | 36.8 |
| Folinigre       | eP   | 46.5                 |        |            | 4135 | 37.2 |
| St Sauveur      | eP   | 47.3                 |        |            | 4155 | 37.4 |
| Frobisher       | eP   | 48                   |        |            | 4180 | 37.6 |
| Toulx Ste Croix | eP   | 56.5                 |        |            | 4275 | 38.5 |
| Clermont        | eP   | 56 01                | e      | 00 56 06   | 4335 | 39.0 |
| Garchy          | iP   | 02.8 <sup>D</sup>    |        |            | 4355 | 39.2 |
| St Saulge       | eP   | 04.3                 |        |            | 4390 | 39.5 |
| Les Buteaux     | eP   | 06.3                 |        |            | 4420 | 39.8 |
| Sommée Lormes   | eP   | 06.8                 |        |            | 4410 | 39.7 |
| Roselend        | eP   | 18                   | e1     | 24.4       | 4605 | 41.4 |
| Haudompré       | eP   | 21.6                 |        |            | 4610 | 41.5 |
| Champ du Feu    | iP   | 26.8                 |        |            | 4685 | 42.2 |
| Strasbourg      | eP   | 2 9                  |        |            | 4725 | 42.5 |
| Lamto           | P    | 30                   |        |            | 4735 | 42.6 |
| Lawrence        | eP   | 39.5                 |        |            | 4855 | 43.7 |
| Tamanrasset     | eP   | 40                   |        |            | 4845 | 43.6 |
| Manha Han       | eP   | 46                   |        |            | 4965 | 44.7 |
| Erlangen        | eP   | 48.1 <sup>C</sup>    |        |            | 4985 | 44.9 |
| Moxa            | eP   | 51                   | eS     | 01 03 40   | 5020 | 45.2 |
| Collm           | eP   | 59                   |        |            | 5135 | 46.2 |
| Kasperské Hory  | P    | 59                   |        |            | 5155 | 46.4 |
| Wichita M.      | eP   | 57 03.9              | e(PCP) | 00 58 35.8 | 5210 | 46.9 |

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|               |     |           |     |            |      |      |
|---------------|-----|-----------|-----|------------|------|------|
| Pruhonice     | P   | 00 57 06C | eS  | 01 04 00   | 5220 | 47°0 |
| Bratislava    | eIP | 16·4      | ei  | 00 57 22·4 | 5410 | 48°7 |
| Uppsala       | eP  | 28        |     |            | 5545 | 49°9 |
| Niedzica      | eIP | 35·2C     |     |            | 5645 | 50°8 |
| Golden        | eP  | 39        | eS  | 01 05 04   | 5710 | 51°4 |
| Resolute      | eP  | 40        |     |            | 5745 | 51°7 |
| Huancayo      | eP  | 44        |     |            | 5800 | 52°2 |
| Penas         | P   | 45·8      | S   | 23         | 5800 | 52°2 |
| La Paz        | IP  | 46·4C     | eS  | 12         | 5800 | 52°2 |
| Station Nord  | IP  | 47·9C     |     |            | 5855 | 52°7 |
| Albuquerque   | eP  | 53        | e   | 20         | 5910 | 53°2 |
| Nurmijaervi   | eP  | 53        | e   | 00 59 06   | 5935 | 53°4 |
| Flaming Gorge | IP  | 59·8C     |     |            | 6020 | 54°2 |
| Oulu          | eP  | 58 00     |     |            | 6040 | 54°3 |
| Uinta Basin   | eP  | 01·6      | ePS | 01 05 48   | 6045 | 54°4 |
| Bozeman SSS   | eP  | 04·5      |     |            | 6110 | 55°0 |
| Sodankylae    | eP  | 05        |     |            | 6095 | 54°9 |
| Kajaani       | IP  | 05·6      | I   | 00 58 11·3 | 6110 | 55°0 |
| Edmonton      | eP  | 06        |     |            | 6135 | 55°2 |
| Butte         | eP  | 10·2      |     |            | 6180 | 55°6 |
| Coppermine    | eP  | 13·1C     |     |            | 6220 | 56°0 |
| Dugway        | eP  | 19·6      |     |            | 6320 | 56°9 |
| Tonto Forest  | eP  | 22·2      | ePS | 01 06 24   | 6355 | 57°2 |
| Tucson        | eP  | 23        | e   | 30         | 6365 | 57°3 |
| Mould Bay     | eP  | 26        |     |            | 6445 | 58°0 |
| Newport       | IP  | 28·3      |     |            | 6480 | 58°3 |
| Blue M.       | eP  | 35·6      |     |            | 6565 | 59°1 |
| Moskva        | eP  | 46        |     |            | 6735 | 60°6 |
| Kheis         | eP  | 57        |     |            | 6940 | 62°5 |
| Isabella      | P   | 59        |     |            | 6935 | 62°4 |
| Bangui        | IP  | 59 00·3D  |     |            | 7010 | 63°1 |
| Jamestown     | eP  | 01·4C     |     |            | 7020 | 63°2 |
| Mineral       | eP  | 03·3C     |     |            | 7040 | 63°3 |
| Priest        | eP  | 08C       |     |            | 7100 | 63°9 |
| Mt Hamilton   | eP  | 11·5C     |     |            | 7145 | 64°3 |
| Bakouriani    | eP  | 36·1      |     |            | 7585 | 68°2 |
| Gilmore Creek | eP  | 40·6      |     |            | 7690 | 69°2 |
| College       | IP  | 41·6      |     |            | 7700 | 69°3 |
| Goris         | IP  | 53C       |     |            | 7895 | 71°1 |
| Palmer        | eP  | 53·6      |     |            | 7935 | 71°4 |
| Tabriz        | eP  | 56        |     |            | 7955 | 71°6 |
| Sverdlovsk    | eP  | 02 00 00  |     |            | 8040 | 72°3 |
| Kermanshah    | eP  | 08        |     |            | 8195 | 73°8 |
| Butare        | IP  | 24·2      |     |            | 8470 | 76°2 |
| Tiksi         | IP  | 35        |     |            | 8730 | 78°6 |
| Addis Ababa   | eP  | 37C       | eS  | 01 11 40   | 8700 | 78°3 |
| Broken Hill   | eP  | 52        |     |            | 9060 | 81°5 |
| Karoi         | eP  | 01 01     |     |            | 9310 | 83°8 |
| Tachkent      | eP  | 12        |     |            | 9490 | 85°4 |
| Garm          | eP  | 02 01 22  |     |            | 9710 | 87°4 |
| Yakoutsk      | eP  | 36        |     |            | 9800 | 88°2 |



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|                |      |            |              |       |      |
|----------------|------|------------|--------------|-------|------|
| Quetta         | eP   | 01 01 31.5 |              | 10035 | 90.3 |
| Trieste        | eS   | 03 51      | eSS 01 07 18 | 5160  | 46.4 |
| Nat.Uni.Mexico | e(S) | 05 14      |              | 5765  | 51.9 |

Inscrit à Uccle, Istanbul Uti, Rabat, l'Aquila,  
M'Bour, Toledo, Bensberg, Pulawayo.

III. 27 janvier  
Région des Iles Bonin

23°7'N, 139°3'E h = 474 km H = 00h54<sup>mn</sup>50.4<sup>s</sup> (CGS)

M = 4.8 (Mt Tsukuba), 4.5 (Albuquerque), 4.4 (Palmer), 4.2 (CGS,  
Dugway), 4.0 (Tonto Forest), 3.9 (Uinta Basin), 3.8 (Blue M).

|                |    |                         |             |       |      |
|----------------|----|-------------------------|-------------|-------|------|
| Oishiyama      | eP | 00 56 32.1 <sup>C</sup> |             | 710   | 6.4  |
| Kiyosumi       | iP | 32.7                    |             | 720   | 6.5  |
| Dodaira        | iP | 39.9                    |             | 810   | 7.3  |
|                | iP | 41.6                    | eS 00 58 02 | 835   | 7.5  |
| Matsushiro     | iP | 45.6                    | S 17        | 880   | 7.9  |
| Warramunga     | eP | 01 02 50                |             | 5400  | 48.6 |
| Palmer         | eP | 03 46                   |             | 6280  | 56.5 |
| College        | eP | 51.8                    |             | 6355  | 57.2 |
| Gilmore Creek  | eP | 52.6                    |             | 6365  | 57.3 |
| Mt Sheep Creek | iP | 53.4                    |             | 6365  | 57.3 |
| Pedro Dome     | iP | 53.5                    |             | 6365  | 57.3 |
| Black Rapids   | iP | 57.7                    |             | 6445  | 58.0 |
| Mould Bay      | eP | 04 42.8 <sup>C</sup>    |             | 7220  | 65.0 |
| Newport        | eP | 05 57                   |             | 8600  | 77.4 |
| Blue M.        | eP | 06 05.6                 |             | 8780  | 79.0 |
| Butte          | eP | 17.5                    |             | 9020  | 81.2 |
| Eureka         | eP | 24.3                    |             | 9165  | 82.5 |
| Goldstone      | iP | 32                      |             | 9345  | 84.1 |
| Dugway         | eP | 33.6                    |             | 9355  | 84.2 |
| Uinta Basin    | eP | 42.1                    |             | 9580  | 86.2 |
| Tonto Forest   | eP | 53.6                    |             | 9835  | 88.5 |
| Albuquerque    | eP | 07 06.8                 |             | 10155 | 91.4 |

IV. 27 janvier  
Crête médiane de l'Océan Atlantique Nord

30°0'N, 42°8'W. h = 33 km H = 01h41<sup>mn</sup>35<sup>s</sup> (CGS)

M = 5.1 (Penas), 5.0 (Dugway), 4.9 (College), 4.8 (Uinta Basin),  
4.7 (Wichita M, Tonto Forest), 4.6 (CGS, Albuquerque), 3.8 (Blue M)

|               |      |                   |                |      |      |
|---------------|------|-------------------|----------------|------|------|
| Cumberland Pl | e/P) | 01 48 48.4        |                | 4020 | 36.2 |
| Moxa          | eP   | 49 51             |                | 5020 | 45.2 |
| Wichita M.    | eP   | 50 04.7           | ePP 01 52 03.7 | 5210 | 46.9 |
| Penas         | P    | 45.7 <sup>D</sup> | PP 43          | 5800 | 52.2 |
| La Paz        | P    | 46.2 <sup>C</sup> | ePP 42.5       | 5810 | 52.3 |
| Albuquerque   | eP   | 53                | e 52           | 5910 | 53.2 |
| Uinta Basin   | eP   | 01.7              | ePcP 04.8      | 6045 | 54.4 |

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|              |    |          |                |      |      |
|--------------|----|----------|----------------|------|------|
| Edmonton     | eP | 01 51 06 |                | 6135 | 55.2 |
| Coppermine   | eP | 13.2     |                | 6220 | 56.0 |
| Bangui       | iP | 17.6D    | 1PP 01 53 59.2 |      |      |
| Dugway       | eP | 19.3     |                | 6320 | 56.9 |
| Tonto Forest | eP | 22.6     | ePcP 52 20.4   | 6355 | 57.2 |
| Mould Bay    | eP | 26       |                | 6435 | 57.9 |
| Newport      | iP | 28.7     |                | 6465 | 58.2 |
| Blue M.      | eP | 34.5     |                | 6565 | 59.1 |
| Isabella     | eP | 59       |                | 6935 | 62.4 |
| Jamestown    | eP | 52 03.3C |                | 7020 | 63.2 |
| Mt Hamilton  | eP | 17C      |                | 7145 | 64.3 |
| College      | iP | 41.8     |                | 7700 | 69.3 |
| Quetta       | eP | 54 36.5  |                |      |      |

inscrit à Toledo, M<sup>o</sup>Bour, Nat. Uni. Mexico.

V. 27 janvier  
Tien Shan méridional

| 40° 6' N, 72° 3' E |      | H = 02 <sup>h</sup> 21 <sup>m</sup> 57 <sup>s</sup> (URSS) |    |            |      |      |
|--------------------|------|--|----|------------|------|------|
| Garm               | iP   | 02 22 32.9   | 1S | 02 23 00.5 | 245  | 2.2  |
| Tachkent           | iP   | 36   | 1S | 05         | 270  | 2.4  |
| Frounze            | eP   | 46   | 1S | 31         | 310  | 2.8  |
| Koulyab            | eP   | 48.9   | 1S | 39.4       | 380  | 3.4  |
| Douchambé          | eP   | 49   | eS | 38         | 380  | 3.4  |
| Samarkand          | P    | 57.5   | 1S | 46         | 470  | 4.2  |
| Warsak             | P    | 23 34  |    |            |      |      |
| Quetta             | eP   | 24 35.3D   |    |            |      |      |
| Semipalatinsk      | P    | 37.7   |    |            | 1245 | 11.2 |
| Mashad             | eIP  | 26 28  |    |            |      |      |
| Sodankylae         | eP   | 29 05  |    |            |      |      |
| Kiruna             | iP   | 19.8   |    |            |      |      |
| Tiksi              | eP   | 43   |    |            | 4620 | 41.6 |
| Roselend           | eP   | 30 25.2  |    |            |      |      |
| Vista Hermosa      | iPKP | 41 10  |    |            |      |      |

inscrit à Moxa.

VI. 27 janvier  
Région de Nagano-Gifu (Japon)

| 36° 03' N, 137° 56' E |    | H = 02 <sup>h</sup> 54 <sup>m</sup> 13.8 <sup>s</sup><br>M = 3.7 (JMA) |    |            |     |     |
|-----------------------|----|--|----|------------|-----|-----|
| Matsumoto             | iP | 02 54 23.8   | 1S | 02 54 28.7 | 40  | 0.4 |
| Matsushiro            | iP | 29.4   | S  | 39         | 77  | 0.7 |
| Kofu                  | iP | 32.8   | eS | 44         | 96  | 0.9 |
| Gifu                  | eP | 36.6   | S  | 49.4       | 105 | 0.9 |
| Hikone                | eP | 39.8   | eS | 55 00.9    | 150 | 1.4 |
| Hamamatsu             | e  | 42.4   | 1S | 00         | 149 | 1.3 |
| Shizuoka              | eP | 44.8   | S  | 54 56.8    | 140 | 1.3 |
| Abuyama               | eP | 49.2   |    |            |     |     |

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VII.- 27 Janvier 1968

Près de la cote de Chiapas (Mexique)

16°06' N ; 94°20' W ; H = 02h.55<sup>mn</sup>43.7S. (Tacubaya)  
 Ressenti à Tehuantepec et Oaxaca.

|                   |       |            |     |            |     |     |
|-------------------|-------|------------|-----|------------|-----|-----|
| Presa Benito J.   | 1Pn   | 02 56 03.2 | 1Sn | 02 56 15.2 | 110 | 1'0 |
| Vista Hermosa     | 1P    | 28         |     |            | 290 | 2'6 |
| Nat. Univ. Mexico | 1PP   | 57 28      | 1S  | 58 21      | 650 | 5'9 |
| Tacubaya          | e     | 48         |     |            | 640 | 5'8 |
| Presa Infiernillo | 1(PP) | 57         | 1S  | 59 18      | 840 | 7'6 |

inscrit à Oaxaca.

VIII.- 27 Janvier

Iles Loyauté

20°9' S ; 169°8' E ; H = 03h.48<sup>mn</sup>08S. ; M. = 4.5 (Nouméa)

|           |    |                         |    |          |  |  |
|-----------|----|-------------------------|----|----------|--|--|
| Ouanaham  | 1P | 03 48 44.8 <sup>D</sup> | 1S | 03 49 10 |  |  |
| Port Vila | 1P | 58.6 <sup>(C)</sup>     | 1S | 38.5     |  |  |
| Nouméa    | 1P | 59 <sup>D</sup>         | 1S | 35       |  |  |
| Koumac    | 1P | 49 23.3 <sup>C</sup>    |    |          |  |  |

inscrit à Luganville.

IX.- 27 Janvier

Mexique.

H = 04h.22<sup>mn</sup>19S. (Tacubaya)

|                   |    |            |    |          |     |     |
|-------------------|----|------------|----|----------|-----|-----|
| Vista Hermosa     | 1P | 04 23 09.5 | 1S | 04 23 47 | 340 | 3'1 |
| Presa Benito J.   | 1P | 21.6       | 1S | 24 10.1  | 437 | 3'9 |
| Nat. Univ. Mexico | i  | 36         |    |          |     |     |
| Tacubaya          | e  | 24 13      |    |          |     |     |
| Presa Infiernillo | i  | 43         |    |          |     |     |

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Mexique.

H = 05h.03<sup>mn</sup>26S. (Tacubaya)

|                   |    |            |    |          |     |     |
|-------------------|----|------------|----|----------|-----|-----|
| Vista Hermosa     | 1P | 05 04 05.5 | 1S | 05 04 34 | 280 | 2'3 |
| Presa Benito J.   | i  | 25.7       |    |          |     |     |
| Nat. Univ. Mexico | i  | 56         |    |          |     |     |

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Guerrero (Mexique)

16°50' N ; 99°24' W ; H = 05h.49<sup>mn</sup>45S. (Tacubaya)

|                   |    |            |    |            |     |     |
|-------------------|----|------------|----|------------|-----|-----|
| Nat. Univ. Mexico | 1P | 05 50 27.5 | 1S | 05 50 58.5 | 280 | 2'5 |
|-------------------|----|------------|----|------------|-----|-----|

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|                   |     |          |     |          |     |     |
|-------------------|-----|----------|-----|----------|-----|-----|
| Tacubaya          | 1Pn | 05 50 29 | eSn | 05 51 00 | 280 | 2'5 |
| Vista Hermosa     | 1P  | 29       |     |          | 290 | 2'6 |
| Presa Infiernillo | 1P  | 34       | 1S  | 19       | 320 | 2'9 |
| Presa Benito J.   | 1P  | 46.2     |     |          | 420 | 3'8 |

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Mexique.

H = 06h.46<sup>mn</sup>37s. (Tacubaya)

|                 |    |            |    |            |     |     |
|-----------------|----|------------|----|------------|-----|-----|
| Presa Benito J. | 1P | 06 46 57.3 | 1S | 06 47 09.8 | 115 | 1'0 |
| Vista Hermosa   | 1P | 47 09      | 1S | 30         | 190 | 1'7 |

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Données insuffisantes.

|                   |     |            |    |            |  |  |
|-------------------|-----|------------|----|------------|--|--|
| La Mourre         | 1Pg | 06 59 39.3 |    |            |  |  |
| Lorgues           | 1Pg | 40.1       |    |            |  |  |
| St. Paul en Forêt | 1Pg | 44.1       |    |            |  |  |
| Lanslevillard     | e   | 07 00 13   | ei | 07 00 19.2 |  |  |
| Roseland          | e   | 21         | ei | 28.2       |  |  |

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Région frontière Washington-Oregon (U.S.A.)

45°7 N ; 122°8 W ; h = 37km ; H = 08h.28<sup>mn</sup>25.2s. (CGS)

Ressenti à Portland

|             |     |                   |    |          |      |      |
|-------------|-----|-------------------|----|----------|------|------|
| Portland    | 1P  | 08 28 32          |    |          | 20   | 0.2  |
| Corvallis   | 1P  | 43.3              | 1S |          | 135  | 1.2  |
| Longmire    | 1P  | 45.4 <sup>D</sup> |    | 08 28 59 | 145  | 1.3  |
| Tumwater    | 1P  | 46.2 <sup>D</sup> |    |          | 145  | 1.3  |
| Seattle     | 1Pn | 55.2              | 1S |          | 200  | 1.8  |
| Blue M.     | ePn | 29 22.3           |    | 29 18.7  | 445  | 4.0  |
| Spokane     | eP  | 26.6              | e  | 30 37.5  | 480  | 4.3  |
| Newport     | ePn | 36                | e  | 46       | 520  | 4.7  |
| Oroville    | eP  | 58.5              |    |          | 690  | 6.2  |
| Butte       | ePn | 30 12.4           |    |          | 790  | 7.1  |
| Bozeman SSS | eP  | 15                |    |          | 865  | 7.8  |
| Eureka      | eP  | 23                |    |          | 890  | 8.0  |
| Wichita M.  | eP  | 33 17.9           |    |          | 2380 | 21.4 |

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Au nord de la Crête.

35°8 N ; 24°8 E ; H = 09h.50<sup>mn</sup>09s. (Athènes)

|        |      |                         |     |            |     |     |
|--------|------|-------------------------|-----|------------|-----|-----|
| Vamos  | 1Pg  | 09 50 22.5 <sup>C</sup> | 1Sg | 09 50 31.6 | 70  | 0.6 |
| Rhodes | eiPn | 52.2 <sup>C</sup>       | eSn | 51 24.7    | 290 | 2.6 |

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|           |     |            |     |     |
|-----------|-----|------------|-----|-----|
| Paraskevi | ePn | 09 51 06.5 | 400 | 3.6 |
| Valsamata | ePn | 14.3       | 455 | 4.1 |

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Pakistan oriental

28°0 N ; 93°6 E ; H = 10h.47<sup>mn</sup>34<sup>s</sup>. (New Dehli)

|            |    |          |     |            |
|------------|----|----------|-----|------------|
| Shillong   | iP | 10 48 10 |     |            |
| Chittagong | eP | 54       |     |            |
| Chatra     | iP | 49 02.9  | S   | 10 50 11.1 |
| Bokaro     | e  | 24       | iSn | 34         |
| New Dehli  | eP | 50 53    | eS  | 53 19      |
| Dehra Dun  | eP | 55.4     | i   | 29         |
| Poona      | e  | 52 15    | e   | 55 25      |
| Quetta     | eP | 50.6     |     |            |
| Kodaikanal | e  | 56 20    |     |            |

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Iles Santa Cruz

12°5 S ; 166°5 E ; h = 57km ; H = 12h.51<sup>mn</sup>23.8<sup>s</sup>. (CGS)  
 11°7 S ; 165°7 E ; H = 12h.51<sup>mn</sup>13.5<sup>s</sup>. (Nouméa)

M. = 5.2(Nouméa) ; 5.1(Shillong) ; 4.7(College) ; 4.6(Uinta Basin) ;  
 4.5(CGS - Gilmore Creek) ; 4.3(Tonto Forest) ; 4.1(Blue M.).

|                   |      |                         |      |          |       |      |
|-------------------|------|-------------------------|------|----------|-------|------|
| Luganville        | iP   | 12 52 10.9 <sup>C</sup> | iS   | 12 52 48 | 345   | 3.1  |
| Port Vila         | eP   | 48.5                    | iD   | 54 01    | 810   | 5.5  |
| Honiara           | iP   | 53 08                   | iS   | 25       | 790   | 7.1  |
| Koumac            | iP   | 22.3 <sup>C</sup>       | iS   | 56.5     | 920   | 8.3  |
| Ouanaham          | eP   | 23                      | iS   | 55 04    | 920   | 8.3  |
| Nouméa            | iP   | 44.6 <sup>C</sup>       | iS   | 42.5     | 1080  | 9.7  |
| Brisbane          | iP   | 55 50.6                 | e(S) | 59 20    | 2160  | 19.6 |
| Charters Towers   | eP   | 56 05                   |      |          | 2310  | 20.8 |
| Afiamalau         | eP   | 08                      |      |          | 2355  | 21.2 |
| Canberra          | eP   | 57 09                   | eS   | 13 02 14 | 3060  | 27.7 |
| Toolangi          | eP   | 40                      |      |          | 3465  | 31.2 |
| Davao             | eP   | 59 17                   |      |          | 5010  | 45.1 |
| Mundaring         | iP   | 13 00 13.6              |      |          | 5545  | 49.9 |
| Shillong          | iP   | 03 38                   |      |          | 9090  | 81.8 |
| College           | eP   | 49                      |      |          | 9390  | 84.5 |
| Gilmore Creek     | eP   | 49.9                    |      |          | 9400  | 84.6 |
| Oroville          | eP   | 52.2                    |      |          | 9390  | 84.5 |
| Jamestown         | eP   | 53.5 <sup>D</sup>       |      |          | 9410  | 84.7 |
| Mineral           | eP   | 04 03.8 <sup>D</sup>    |      |          |       |      |
| Blue M.           | eP   | 14.7                    |      |          | 9910  | 89.2 |
| Tonto Forest      | eP   | 23                      | epP  | 04 39.2  | 10080 | 90.7 |
| Uinta Basin       | eP   | 35.2                    |      |          | 10390 | 93.5 |
| St. Paul en Foret | ePKP | 10 53.9                 |      |          |       |      |
| La Mourre         | ePKP | 54.3                    |      |          |       |      |

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Lorgues 1PKP 13 10 54.3  
 Bangui PKP 11 06.8 16365 147.3

inscrit à Wichita M. - M. Hamilton.

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Taiwan

23° 2' N ; 121° 6' E ; h = 53<sup>km</sup> ; H = 13<sup>h.56<sup>mn</sup>23.9<sup>s.</sup></sup> (CGS)  
 23° 3' N ; 121° 5' E ; H = 13<sup>h.56<sup>mn</sup>20<sup>s.</sup></sup> (URSS)  
 23° 8' N ; 121° 0' E ; H = 13<sup>h.56<sup>mn</sup>22<sup>s.</sup></sup> (Shillong)

Largelement ressenti dans l'île de Formose, VI à Hsin-Chiang, V à Taitung, Hwalien, etc ...

M. = 6.2(Baguió); 6.1(Uppsala - Kiruna); 6.0-6.2(Moxa);  
 6.0(Strasbourg); 5.9(Rabaul - Roma); 5.6(URSS - Poona - Quetta -  
 Kajaani - Bangui); 5.5(Shillong - Nurmijaerwi - Benbsberg); 5.3(Kevo -  
 Addis Ababa); 5.2(CGS); 5.1(Palmer - Longmire); 5.0(Gilmore Creek -  
 College - Uinta Basin); 4.7(Blue M.); 4.6(Tonto Forest);  
 4.5(Mt. Tsukuba)

|                   |    |                   |    |            |      |      |
|-------------------|----|-------------------|----|------------|------|------|
| Hsin_Kong         | 1P | 13 56 30.2        | S  | 13 56 35.2 | 20   | 0.2  |
| Yushan            | P  | 35                | S  | 39.7       | 65   | 0.6  |
| Hwalien           | P  | 37                | S  | 50         | 80   | 0.7  |
| Taitung           | 1P | 37                | S  | 43         | 65   | 0.6  |
| Tawu              | P  | 39                | S  | 57 00      | 120  | 1.1  |
| Kaahsiung         | P  | 43                | S  | 56 58.5    | 145  | 1.3  |
| Tai chung         | P  | 46                | S  | 57 06      | 135  | 1.2  |
| Tainan            | 1P | 48                | S  | 08         | 145  | 1.3  |
| Hengchun          | P  | 49                | S  | 56 57.0    | 155  | 1.4  |
| Ilan              | P  | 53                | S  | 57 10.7    | 165  | 1.5  |
| Anpu              | 1P | 55.2 <sup>D</sup> | S  | 13         | 210  | 1.9  |
| Taipei            | 1P | 58                | S  | 13         | 200  | 1.8  |
| Hong_Kong         | 1P | 58 03             | es | 59 15      | 765  | 6.9  |
| Baguió            | 1P | 03.5              | 1S | 32         | 765  | 6.9  |
| Séoul             | eP | 59 52.2           |    |            | 1665 | 15.0 |
| Shiraki           | eP | 53                |    |            | 1655 | 14.9 |
| Oishiyama         | eP | 14 00 05.6        |    |            | 1800 | 16.2 |
| Wakaura W.        | eP | 11                |    |            | 1800 | 16.2 |
| Abuyama           | 1P | 19.3              |    |            | 1865 | 16.8 |
| Matsushiro        | 1P | 48.5              | S  | 14 04 23   | 2180 | 19.6 |
| Dodaira           | eP | 54.1              |    |            | 2210 | 19.9 |
| Kiyosumi          | eP | 57.5              |    |            | 2235 | 20.1 |
| Mt. Tsukuba       | eP | 58.4              |    |            | 2290 | 20.6 |
| Vladivostok       | eP | 01 10             | S  | 05 07      | 2400 | 21.6 |
| Guam              | eP | 37                | es | 52         | 2680 | 24.1 |
| Shillong          | 1P | 02 04             |    |            | 3010 | 27.1 |
| Chittagong        | eP | 07                |    |            | 3050 | 27.5 |
| Youjno_Sakhalinsk | 1P | 24 <sup>D</sup>   | es | 07 10      | 3245 | 29.2 |
| Oulan Bator       | 1P | 30                |    |            | 3035 | 27.3 |

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|                 |    |                      |      |          |      |      |
|-----------------|----|----------------------|------|----------|------|------|
| Port Blair      | eP | 14 02 30             | eS   | 14 07 24 | 3310 | 29'8 |
| Calcutta        | eP | 36                   | 1S   | 44       | 3400 | 30'8 |
| Esen_Boulak     | P  | 38                   |      |          | 3430 | 30'9 |
| Chatra          | eP | 43                   |      |          | 3485 | 31'4 |
| Bokaro          | 1P | 53                   | 1S   | 08 08    | 3640 | 32'8 |
| Vishakhapatnam  | eP | 03 25                |      |          | 4020 | 36'2 |
| Severo_Kourilsk | 1P | 42'3                 | eS   | 09 31'5  | 4255 | 38'3 |
| Yakoutsk        | P  | 47                   | eS   | 42       | 4355 | 39'2 |
| Dehra Dun       | eP | 51                   | 1S   | 51       | 4375 | 39'4 |
| New Dehli       | 1P | 56                   | eS   | 58       | 4455 | 40'1 |
| Rabaul          | 1P | 04 00'4 <sup>C</sup> | e(S) | 10 12    | 4490 | 40'4 |
| Keravat         | eP | 01 <sup>C</sup>      |      |          | 4500 | 40'5 |
| Madras          | eP | 01                   | eS   | 07       | 4505 | 40'5 |
| Bhakra          | eP | 01 <sup>n</sup> 8    | eS   | 09       | 4525 | 40'7 |
| Port Moresby    | 1P | 03'7                 |      |          | 4555 | 41'0 |
| Talgar          | 1P | 09                   | 1S   | 24       | 4610 | 41'5 |
| Magadan         | eP | 09                   | eS   | 24       | 4640 | 41'7 |
| Semipalatinsk   | 1P | 11 <sup>D</sup>      |      |          | 4670 | 42'0 |
| Lahore          | eP | 16                   |      |          | 4725 | 42'5 |
| Frounze         | 1P | 23'5 <sup>C</sup>    | 1S   | 51       | 4815 | 43'4 |
| Esa'Ala         | 1P | 28'6                 |      |          | 4830 | 43'5 |
| Poona           | 1P | 33'5 <sup>C</sup>    | eS   | 11 08    | 4965 | 44'7 |
| Warsak          | 1P | 35'4                 |      |          | 4995 | 45'0 |
| Trivandrum      | 1P | 39                   | e    | 06 39    | 5020 | 45'2 |
| Bombay          | 1P | 40                   | eS   | 11 21    | 5055 | 45'5 |
| Goa             | eP | 41                   | eS   | 23       | 5055 | 45'5 |
| Garm            | 1P | 44'8                 |      |          | 5115 | 46'1 |
| Koulyab         | eP | 47'4                 |      |          | 5160 | 46'4 |
| Douchambé       | 1P | 53 <sup>C</sup>      | 1S   | 46       | 5230 | 47'2 |
| Tiksi           | eP | 05 01                | eS   | 58       | 5405 | 48'6 |
| Samarkand       | 1P | 05 <sup>C</sup>      |      |          | 5410 | 48'7 |
| Quetta          | eP | 07'4 <sup>C</sup>    | eS   | 12 10    | 5435 | 48'9 |
| Charters Towers | 1P | 09'7                 | 1S   | 06       | 5480 | 49'3 |
| Meekatharra     | 1P | 09'9 <sup>C</sup>    |      |          | 5510 | 49'6 |
| Honiara         | eP | 12                   | eS   | 20       | 5510 | 49'6 |
| Kalgoorlie      | 1P | 39'7 <sup>C</sup>    |      |          | 5965 | 53'7 |
| Adak            | eP | 49'6                 |      |          | 6090 | 54'8 |
| Mashad          | 1P | 50                   |      |          | 6055 | 54'5 |
| Mundaring       | 1P | 50'1                 |      |          | 6120 | 55'1 |
| Sverdlovsk      | 1P | 51                   | S    | 13 30    | 6115 | 55'1 |
| Kizyl_Arvat     | 1P | 06 07                | S    | 14 01    | 6330 | 57'0 |
| Brisbane        | 1P | 16'9                 | e(S) | 18       | 6520 | 58'7 |
| Luganville      | 1P | 19'3(C)              |      |          | 6545 | 58'9 |
| Adélaide        | 1P | 27                   |      |          | 6680 | 60'1 |
| Koumac          | 1P | 27'4 <sup>C</sup>    |      |          | 6690 | 60'2 |
| Téhéran         | eP | 35                   |      |          | 6800 | 61'2 |
| Chiraz          | P  | 35'9 <sup>C</sup>    | eL   | 52       | 6780 | 61'0 |
| Kheis           | eP | 45                   |      |          | 7000 | 63'0 |
| Ouanaham        | 1P | 45'1 <sup>C</sup>    |      |          | 6935 | 62'4 |
| Canberra        | eP | 53                   | eS   | 15 26    | 7090 | 63'8 |
| Nouméa          | 1P | 53'6 <sup>C</sup>    |      |          | 6990 | 62'9 |
| Kirovabad       | P  | 57 <sup>C</sup>      | S    | 32       | 7155 | 64'4 |
| Toolangi        | eP | 57                   | e    | 07 07    | 7165 | 64'5 |

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|                 |    |       |                   |     |       |      |      |      |
|-----------------|----|-------|-------------------|-----|-------|------|------|------|
| Goris           | 1P | 14 06 | 58 <sup>C</sup>   | iS  | 14 15 | 37   | 7175 | 64.6 |
| Tabriz          | eP | 07    | 01 <sup>C</sup>   | e   |       | 42   | 7200 | 64.8 |
| Tbilisi         | P  |       | 02                |     |       |      | 7280 | 65.4 |
| Poti            | 1P |       | 08                |     |       |      |      |      |
| Sparrevohn      | eØ |       | 10                |     |       |      | 7390 | 66.5 |
| Big Mountain    | eP |       | 13                |     |       |      | 7435 | 66.9 |
| Moskva          | eP |       | 17                | e   | 07    | 26   | 7535 | 67.8 |
| Tanana          | eP |       | 19                |     |       |      | 7520 | 67.7 |
| Kodiak          | eP |       | 24                |     |       |      | 7610 | 68.5 |
| Savannah        | eP |       | 25                |     |       |      | 7655 | 68.9 |
| Moorlands       | eP |       | 25                |     |       |      | 7720 | 69.5 |
| Tarraleah       | 1P |       | 26.7              |     |       |      | 7680 | 69.1 |
| Palmer          | eP |       | 27.7              |     |       |      | 7720 | 69.5 |
| Pedro Dome      | eP |       | 29                |     |       |      | 7735 | 69.6 |
| College         | 1P |       | 29.3              |     |       |      | 7720 | 69.5 |
| Gilmore Creek   | eP |       | 29.3              |     |       |      | 7735 | 69.6 |
| Tasmanian Univ. | 1P |       | 30.2 <sup>C</sup> | e   | 16    | 48   | 7780 | 70.0 |
| Kevo            | 1P |       | 31.1              | eS  |       | 36   | 7780 | 70.0 |
| Mts Sheep Creek | eP |       | 33                |     |       |      | 7810 | 70.3 |
| Black Rapids    | eP |       | 35                |     |       |      | 7845 | 70.6 |
| Sodankylae      | eP |       | 35                |     |       |      | 7855 | 70.7 |
| Kajaani         | 1P |       | 36                | i   | 07    | 47.9 | 7890 | 71.0 |
| Poulkovo        | 1P |       | 36                | esp |       | 41   | 7875 | 70.9 |
| Oulu            | eP |       | 40                |     |       |      | 7955 | 71.6 |
| Kiruna          | 1P |       | 48                |     |       |      | 8090 | 72.8 |
| Nurmi jaervi    | 1P |       | 51.2              | eS  | 17    | 20   | 8155 | 73.4 |
| Mould Bay       | eP |       | 54 <sup>C</sup>   |     |       |      | 8235 | 74.1 |
| Uméa            | 1P |       | 55.5              |     |       |      | 8255 | 74.3 |
| Ksara           | 1P |       | 58                | M   | 42    | -    | 8230 | 74.1 |
| Alert           | eP |       | 58                |     |       |      | 8230 | 74.5 |
| Kichinev        | eP |       | 59.5              | esp | 08    | 21   | 8355 | 75.2 |
| Afiamalu        | eP | 08    | 04                |     |       |      | 8320 | 74.9 |
| Jérusalem       | 1P |       | 04                | eS  | 17    | 44   | 8355 | 75.2 |
| Jasi            | P  |       | 07                | e   | 08    | 18   | 8440 | 76.0 |
| Uppsala         | 1P |       | 10.7              | i   |       | 21.7 | 8545 | 76.9 |
| Focsani         | P  |       | 11 <sup>C</sup>   |     |       |      | 8520 | 76.7 |
| Istanbul Kand.  | eP |       | 12.3              | i   |       | 24.3 | 8545 | 76.9 |
| Istanbul Uti    | eP |       | 12.3              | ePP | 11    | 10   | 8555 | 77.0 |
| Lvw             | eP |       | 14                | M   | 47.7  | -    | 8590 | 77.3 |
| Skalstugan      | eP |       | 17                |     |       |      | 8625 | 77.6 |
| Campulung       | eP |       | 21                |     |       |      | 8645 | 77.8 |
| Oujgorod        | eP |       | 22 <sup>C</sup>   |     |       |      | 8755 | 78.8 |
| Helwan          | 1P |       | 23 <sup>D</sup>   | i   | 18    | 20   | 8780 | 79.0 |
| Lillehammer     | eP |       | 25                |     |       |      | 8820 | 79.4 |
| Krakow          | eP |       | 26.5              |     |       |      | 8850 | 79.7 |
| Kongsberg       | eP |       | 27                |     |       |      | 8955 | 80.6 |
| Niedzica        | eP |       | 27.5 <sup>C</sup> |     |       |      | 8855 | 79.7 |
| Coppermine      | eP |       | 28.5              |     |       |      | 8910 | 80.2 |
| Monowai         | eP |       | 30                |     |       |      | 8930 | 80.4 |
| Addis Ababa     | eP |       | 31                | ePP | 11    | 36   | 8880 | 79.9 |
| Goteborg        | 1P |       | 31.5              |     |       |      | 8950 | 80.5 |



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|                  |       |                    |                   |      |                      |       |      |
|------------------|-------|--------------------|-------------------|------|----------------------|-------|------|
| Raciborz         | eP    | 14 08              | 32.8              |      |                      | 8965  | 80 7 |
| Paraskevi        | eP    |                    | 38.5              |      |                      | 8845  | 79.6 |
| Praha            | eP    |                    | 42                | e    | 14 08055             | 9200  | 82.8 |
| Wien Kobenzl     | eP    |                    | 43.2              |      |                      | 9165  | 82.5 |
| Wien             | iP    |                    | 43.3 <sup>C</sup> |      |                      | 9170  | 82.5 |
| Collm            | eP    |                    | 44                | i    | 55.8                 | 9220  | 83.0 |
| Pruhonice        | P     |                    | 44                |      |                      | 9200  | 82.8 |
| Tananarive       | iP    |                    | 46.5 <sup>C</sup> | i    | 09 08.5 <sup>C</sup> | 9280  | 83.5 |
| Vamos            | eP    |                    | 47.5              |      |                      | 9175  | 82.6 |
| Srobarova        | ei(P) |                    | 49                |      |                      | 9060  | 81.6 |
| Kasperské Hory   | P     |                    | 49 <sup>C</sup>   |      |                      | 9300  | 83.7 |
| Moxa             | iP    |                    | 50.5 <sup>D</sup> | eS   | 19 25                | 9345  | 84.1 |
| Bratislava       | ei(P) |                    | 51                | ei   | 09 04.5              | 9125  | 82.1 |
| Ljubljana        | eP    |                    | 53                |      |                      | 9405  | 84.7 |
| Erlangen         | eP    |                    | 54.1              | ePP  | 12 20                | 9430  | 84.9 |
| Trieste          | iP    |                    | 55 <sup>C</sup>   | eS   | 19 19                | 9465  | 85.2 |
| Furstenfeldbruck | eP    |                    | 57                |      |                      | 9500  | 85.5 |
| Bensberg         | eP    | 09 01 <sup>C</sup> |                   | e    | 09 06.5              | 9590  | 86.3 |
| L'Aquila         | eP    |                    | 06                | eS   | 19 40                | 9680  | 87.1 |
| Champ du Feu     | eP    |                    | 09.2              |      |                      | 9750  | 87.7 |
| Witteveen        | e(P)  |                    | 10                |      |                      | 9515  | 85.6 |
| Strasbourg       | eiP   |                    | 10                | eL   | 12.7 -               | 9705  | 87.4 |
| Haudompré        | eP    |                    | 10.5              |      |                      | 9830  | 88.5 |
| Lanslevillard    | eiP   |                    | 16.5              | eiPP | 13 00                | 9960  | 89.6 |
| Roselend         | eiP   |                    | 17                | ei   | 09 24.5              | 9955  | 89.6 |
| Somme Lormes     | eP    |                    | 19.4              |      |                      | 10020 | 90.2 |
| Edmonton         | eP    |                    | 20                |      |                      | 10035 | 90.3 |
| Vouglans         | eP    |                    | 20                | ei   | 27.8                 | 9975  | 89.8 |
| Les Buteaux      | eP    |                    | 20.2              |      |                      | 10040 | 90.4 |
| St Saulge        | eP    |                    | 21                |      |                      | 10055 | 90.5 |
| Longmire         | eP    |                    | 21                |      |                      | 9990  | 89.9 |
| Garchy           | eP    |                    | 22.4 <sup>D</sup> |      |                      | 10075 | 90.7 |
| Nordman          | eP    |                    | 26                | e    | 13 19                | 10155 | 91.4 |
| Chileka          | eP    |                    | 27                |      |                      | 10335 | 93.0 |
| Newport          | eP    |                    | 27                |      |                      | 10180 | 91.6 |
| Toulx Ste Croix  | eP    |                    | 28.3              |      |                      | 10195 | 91.8 |
| Butare           | iP    |                    | 31.9              | ePP  | 24                   | 10305 | 92.7 |
| Hungry Horse     | eP    |                    | 32                |      |                      | 10345 | 93.1 |
| Frobisher        | eP    |                    | 32                |      |                      | 10335 | 93.0 |
| Blue M.          | eP    |                    | 36.1              |      |                      | 10400 | 93.6 |
| Gorron           | eP    |                    | 37                |      |                      | 10235 | 92.1 |
| St Sauveur       | e(P)  |                    | 37.2              |      |                      | 10180 | 91.6 |
| Mineral          | eP    |                    | 37.5 <sup>C</sup> |      |                      | 10410 | 93.7 |
| Folinigre        | e(P)  |                    | 37.5              |      |                      | 10180 | 91.6 |
| Oroville         | eP    |                    | 40                |      |                      | 10465 | 94.2 |
| Le Pertre        | eP    |                    | 40                |      |                      | 10270 | 92.5 |
| St Paul en Foret | e(P)  |                    | 41.2              |      |                      | 10080 | 90.7 |
| La Mourre        | e(P)  |                    | 43                |      |                      | 10105 | 91.0 |
| Lorgues          | e(P)  |                    | 44.6              |      |                      | 10110 | 91.0 |
| Butte            | eP    |                    | 44.7              | e    | 10 18.4              | 10600 | 95.4 |
| Bozeman SSS      | eP    |                    | 46                |      |                      | 10690 | 96.2 |
| Karoi            | eP    |                    | 55                |      |                      | 10910 | 96.2 |
| Broken Hill      | eP    |                    | 57                |      |                      | 10935 | 96.4 |

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|              |       |                       |                   |          |       |       |
|--------------|-------|-----------------------|-------------------|----------|-------|-------|
| Bangui       | iP    | 14 10 05 <sup>C</sup> |                   |          | 11135 | 100.2 |
| Bulawayo     | iP    | 06 <sup>C</sup>       |                   |          | 11145 | 100.3 |
| Goldstone    | P     | 13                    | PP                | 14 14 10 | 11080 | 99.7  |
| Uinta Basin  | eP    | 14.9                  | eOP               | 14.5     | 11210 | 100.9 |
| Dugway       | e     | 21.3                  |                   |          | 11010 | 99.1  |
| Tonto Forest | eP    | 26.9                  | eSKS <sub>1</sub> | 21 08    | 11545 | 103.9 |
| Toledo       | ePP   | 14 19.9               | e PS              | 23 15    | 11040 | 99.4  |
| Tucson       | (PKP) | 41.6                  | e                 | 15 04.5  | 11720 | 105.5 |
| Byrd         | PKP   | 15 05.4               | e                 | 16 11.6  | 23065 | 117.6 |
| Lamto        | PKP   | 11.9                  |                   |          | 13355 | 120.2 |
| Wichita M.   | ePP   | 23.9                  | eSP               | 5 04     | 12325 | 110.9 |
| Caracas      | PKP   | 57.3                  |                   |          | 16165 | 145.5 |
| Trinidad     | PKP   | 59                    |                   |          | 16245 | 146.2 |
| Bogota       | PKP   | 16 07                 | ePP               | 19 24    | 16490 | 148.4 |
| Quito        | ePKP  | 13                    | e                 | 30 05    | 16625 | 149.6 |
| Huancayo     | PKP   | 22                    |                   |          | 17835 | 160.5 |
| Penas        | PKP   | 23.3                  | ePP               | 21 37    | 18700 | 168.3 |
| La Paz       | PKP   | 23.8                  | ePP               | 40       | 18745 | 168.7 |

inscrit à Vrincoiaia, Port Vila, Roma, Pavia, Uccle, De Bilt, M<sup>e</sup> Bour.

XIX. 27 janvier  
Cote de la Préfecture de Ibaraki (Japon)

36° 37' N, 140° 41' E h = 60 km. H = 14<sup>h</sup> 10<sup>mn</sup> 37.1<sup>s</sup>  
M = 3.8 (JMA)

|            |    |            |    |          |     |     |
|------------|----|------------|----|----------|-----|-----|
| Mito       | iP | 14 10 43.4 | iS | 14 10 55 | 32  | 0.3 |
| Kakioka    | P  | 49.7       | iS | 56.9     | 61  | 0.5 |
| Utsunomiya | P  | 51.6       | S  | 11 00.7  | 73  | 0.7 |
| Tokyo      | eP | 58.6       | eS | 12.5     | 133 | 1.2 |
| Kumagaya   | eP | 58.8       | S  | 13       | 128 | 1.2 |
| Matsushiro | iP | 11 10.3    | iS | 25       | 222 | 2.0 |
| Abuyama    | eP | 57.5       |    |          |     |     |

XX. 27 janvier  
Nordlands Fylke (Norvège) H = 15<sup>h</sup> 02<sup>mn</sup> 19<sup>s</sup> (Uppsala)

|            |     |          |
|------------|-----|----------|
| Kiruna     | iSg | 15 03 46 |
| Skalstugan | iSg | 50.5     |
| Uméa       | iSg | 04 14.1  |

XXI. 27 janvier  
Nouvelles Hébrides

20° 9' S, 169° 7' E. h = 108 km. H = 15<sup>h</sup> 30<sup>mn</sup> 10<sup>s</sup> (CGS)  
20° 9' S, 169° 6' E H = 15<sup>h</sup> 30<sup>mn</sup> 10<sup>s</sup> (Nouméa)  
M = 4.0 (Nouméa)

|            |    |                         |    |            |     |     |
|------------|----|-------------------------|----|------------|-----|-----|
| Ouanaham   | iP | 15 30 46.7 <sup>C</sup> | iS | 15 31 14.5 | 255 | 2.3 |
| Nouméa     | iP | 31 01 <sup>C</sup>      | iS | 39         | 365 | 3.3 |
| Port Vila  | iP | 02 <sup>C</sup>         | iS | 41         | 380 | 3.4 |
| Koumac     | iP | 24.9 <sup>C</sup>       | iS | 32 22.5    | 555 | 5.0 |
| Luganville | eP | 35.4                    | iS | 37.5       | 645 | 5.8 |

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Wichita M. ePP 15 47 58.0

XXII. 27 janvier  
Sicile

Réplique : H = 17<sup>h</sup>44<sup>mn</sup>(12)<sup>s</sup> (ING). M = 3.8 (Roma)

|                  |                |          |    |            |
|------------------|----------------|----------|----|------------|
| Messina          | eP             | 17 44 54 | iS | 17 45 20.6 |
| Messina ING      | ePn            | 55       | eS | 21         |
| Reggio Calabria  | e <sub>n</sub> | 45 10.8  | i  | 53.8       |
| Roma             | e, Sn)         | 50.2     | e  | 46 42      |
| La Mourre        | eP             | 46 04.8  |    |            |
| St Paul en Foret | eP             | 05       |    |            |
| Lorgues          | eP             | 08       |    |            |

inscrit à Trieste.

XXIII. 27 janvier  
Région de la Nouvelle Bretagne

H = 18<sup>h</sup>19<sup>mn</sup>43<sup>s</sup> M = 5.1 (Rabaul)

|                |    |                       |    |          |
|----------------|----|-----------------------|----|----------|
| Rabalanakaia   | iP | 48 20 22 <sup>D</sup> |    |          |
| Wanliss Street | eP | 22.5 <sup>D</sup>     |    |          |
| Rabaul         | iP | 22.5 <sup>D</sup>     | iS | 18 20 52 |
| Keravat        | eP | 23.5                  | iS | 50.5     |
| Esa'Ala        | iP | 21 08.6               |    |          |
| Port Moresby   | iP | 43                    | eS | 23 13    |
| Brisbane       | eP | 24 32.5               |    |          |
| Warramunga     | eP | 53                    |    |          |

XXIV. 27 janvier  
Région du Hodna (Algérie)

35° 9'N, 5° 4'E H = 18<sup>h</sup>28<sup>mn</sup>54<sup>s</sup> (BCIS)

35° 9'N, 5° 2'E h = 33<sup>km</sup> H = 18<sup>h</sup>28<sup>mn</sup>52<sup>s</sup> (CGS)

Ressenti V - VI à Ras El Oued (ex Tocqueville) et III à Sétif.

M = 4.4 (Blue M), 4.0 - 4 1/4 (Strasbourg), 4.2 (CGS, Roma),  
4.1 (Wichita M), 3.9 (Uinta Basin).

|                  |     |                         |     |            |      |     |
|------------------|-----|-------------------------|-----|------------|------|-----|
| Sétif            | i!  | 18 28 57.5 <sup>D</sup> |     |            |      |     |
| Alger            | ePn | 29 23.7 <sup>C</sup>    | i   | 18 29 29.2 | 230  | 2.1 |
| Alicante         | ePn | 30 09.2                 | e   | 31 09.1    | 510  | 4.6 |
| Almería          | ePn | 26.8                    | eSn | 45.6       | 710  | 6.4 |
| Tortosa          | eP  | 2.9                     |     |            | 6.00 | 6.2 |
| La Mourre        | eP  | 39.8                    |     |            | 830  | 7.5 |
| St Paul en Foret | eP  | 42.1                    |     |            | 850  | 7.7 |
| Lorgues          | eP  | 43.4                    |     |            | 835  | 7.5 |
| Bagnères         | eP  | 50.5                    | eS  | 32 21      | 910  | 8.2 |
| Toledo           | iSn | 53                      | eS  | 31 16      |      |     |
| Isola            | eP  | 53                      |     |            | 925  | 8.3 |
| Ifrane           | iP  | 59.6 <sup>D</sup>       | e   | 09         | 1000 | 9.0 |
| Monteynard       | eP  | 31 02.5                 |     |            | 1000 | 9.0 |
| Lanslevillard    | eP  | 13                      | ei  | 29.8       | 1045 | 9.4 |

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|                 |      |                   |      |            |      |      |
|-----------------|------|-------------------|------|------------|------|------|
| Roselend        | eP   | 18 31 14          | eIS  | 18 33 04.4 | 1085 | 9.8  |
| Vouglans        | eP   | 23                | e    | 31 41      | 1160 | 10.4 |
| Toulx Ste Croix | eP   | 25                |      |            | 1180 | 10.6 |
| Les Buteaux     | eP   | 32.1              |      |            | 1230 | 11.1 |
| St Saulge       | iP   | 33.9              |      |            | 1245 | 11.2 |
| Garchy          | iP   | 35.3 <sup>C</sup> |      |            | 1275 | 11.5 |
| Somme & Lormes  | eP   | 35.7              |      |            | 1265 | 11.4 |
| Averroes        | P    | 39                | i    | 52         | 1210 | 10.9 |
| Tamanrasset     | eP   | 57                | e(S) | 34 31      | 1455 | 13.1 |
| Le Pertre       | eP   | 58.3              |      |            | 1440 | 13.0 |
| Folinière       | eP   | 32 01.1           |      |            | 1500 | 13.5 |
| Gorron          | eP   | 02                |      |            | 1475 | 13.3 |
| St Sauveur      | eP   | 03.4              |      |            | 1475 | 13.3 |
| Kasperské Hory  | eIP  | 21                |      |            | 1610 | 14.5 |
| Moxa            | eP   | 36                |      |            | 1710 | 15.4 |
| Collm           | eP   | 47                |      |            | 1810 | 16.3 |
| L'Aquila        | e(S) | 33 00             |      |            |      |      |
| Niedzica        | eP   | 02                |      |            | 1925 | 17.3 |
| Trieste         | e(S) | 34 06             | e    | 44         |      |      |
| Lamto           | P    | 35 10.9           |      |            | 3455 | 31.1 |
| Bangui          | eP   | 34                | iPP  | 36 52      | 3745 | 33.7 |
| Chiraz          | P    | 36 27.5           |      |            | 4445 | 40.0 |
| Karoi           | eP   | 38 40             |      |            | 6365 | 57.3 |
| Eulawayo        | eP   | 39 00             |      |            | 6660 | 60.0 |
| Wichita M.      | eP   | 41 08.2           |      |            | 8915 | 80.2 |
| Uinta Basin     | eP   | 19.8              |      |            | 9265 | 83.4 |
| Blue M.         | eP   | 23.2              |      |            | 9370 | 84.3 |

inscrit à Roma, Strasbourg, Monaco, M<sup>l</sup>Bour, Rabat, Clermont, Pruhonice.

XXV. 27 janvier  
Nouvelles Hébrides (île Espiritu Santo)

15° 7S, 166° 3E

H = 18<sup>h</sup>45<sup>mn</sup>46<sup>s</sup>

M = 4.0 (Nouméa)

Ressenti III à Luganville.

|            |     |                      |    |          |  |  |
|------------|-----|----------------------|----|----------|--|--|
| Luganville | iP  | 18 45 51             |    |          |  |  |
| Port Vila  | eIP | 46 27.2              | iS | 18 46 57 |  |  |
| Koumac     | iP  | 47 07.5 <sup>C</sup> | iS | 48 10.5  |  |  |
| Nouméa     | iP  | 26.2 <sup>C</sup>    | iS | 41       |  |  |

inscrit à Ouanaham.

X XVI. 27 janvier  
Région de la Nouvelle Bretagne H = ... (Rabaul)

H = 19<sup>h</sup>20<sup>mn</sup>13<sup>s</sup>.

M = 4.3 (Rabaul)

|              |    |                         |    |            |  |  |
|--------------|----|-------------------------|----|------------|--|--|
| Keravat      | eP | 19 20 47.5 <sup>D</sup> | iS | 19 21 11.5 |  |  |
| Rabaul       | eP | 47.5 <sup>D</sup>       | iS | 13         |  |  |
| Rabalanaia   | eP | 49                      |    |            |  |  |
| Port Moresby | eP | 21 52                   | eS | 23 09      |  |  |

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XXVII. 27 janvier  
Région de la Nouvelle Bretagne

H = 20<sup>h</sup>27<sup>mn</sup>15<sup>s</sup> M = 4.5 (Rabaul)

|              |    |             |    |            |
|--------------|----|-------------|----|------------|
| Rabaul       | 1P | 20 27 53.2D | 1S | 20 28 22.5 |
| Keravat      | eP | 54.5D       | 1S | 27         |
| Rabalanakala | 1P | 54.8D       |    |            |
| Port Moresby | eP | 29 14       |    |            |

XXVIII. 27 janvier  
Au large de la cote Nord de la Crete

36° 3'N, 25° 5'E H = 20<sup>h</sup>52<sup>mn</sup>41<sup>s</sup>  
M = 3.6 (Athènes)

|           |      |             |      |            |         |
|-----------|------|-------------|------|------------|---------|
| Vamos     | eIPn | 20 53 07.5C |      | 155        | 1.4     |
| Rhodes    | eIPn | 17.7C       | eISn | 20 53 44.7 | 230 2.1 |
| Paraskevi | eIPn | 30.4C       |      | 330        | 3.0     |
| Athènes   | ePg  | 30.5        | eISg | 54 03      | 270 2.4 |

I. 28 janvier  
Colombie

2° 8'N, 74° 9'W. h = 66km. H = 01<sup>h</sup>50<sup>mn</sup>46.2<sup>s</sup> (CGS)  
Ressenti à Bogota, Neiva, Ibagué.

M = 5.7 (Balboa Heights, Caracas), 5.6 (Cumberland Pl), 5.1 (Albuquerque), 5.0 (Uinta Basin, Longmire, Wichita M), 4.9 (Bozeman SSS, CGS), 4.8 (Dugway, Eureka), 4.7 (Palmer, Golden), 4.6 (College, Tucson, San Juan), 4.5 (Tonto Forest), 4.4 (Blue M, Gilmore Creek), 4.2 (Penas).

|                 |    |            |        |            |      |      |
|-----------------|----|------------|--------|------------|------|------|
| Bogota          | 1P | 01 51 20.5 | 1S     | 01 51 46.0 | 220  | 2.0  |
| Fiquene         | 1P | 34.0       |        |            | 320  | 2.9  |
| Quito           | P  | 56.5       | S      | 53 12.0    | 520  | 4.7  |
| Galerazamba     | 1P | 52 26.0    |        |            | 880  | 7.9  |
| Balboa Heights  | eP | 34.9       | eS     | 52 57.6    | 855  | 7.7  |
| Caracas         | 1P | 53 20.7    | 1S     | 55 20.0    | 1220 | 11.0 |
| Nana            | eP | 54 22.0    |        |            | 1645 | 14.8 |
| Trinidad        | eP | 22.0       |        |            | 1720 | 15.5 |
| Huancayo        | e  | 30.4       |        |            | 1630 | 14.7 |
| San Juan        | eP | 44.5       | 1S     | 57 54.0    | 1720 | 15.5 |
| Arequipa        | eP | 55 11.5    |        |            | 2155 | 19.4 |
| Penas           | P  | 22.5       |        |            | 2220 | 20.0 |
| La Paz          | P  | 25.0       | S      | 59 05.0    | 2255 | 20.3 |
| Cochabamba      | P  | 43.2       |        |            |      |      |
| Presa B. Juarez | eP | 56 02.3    | esP    | 56 35.3    |      |      |
| Vista Hermosa   | 1P | 05.5       |        |            |      |      |
| Antofagasta     | 1P | 31.2C      | i      | 34.3       |      |      |
| Cumberland Pl   | 1P | 57 27.8    |        |            |      |      |
| Wichita M.      | eP | 58 04.4    | e gPP) | 59 31.2    | 4300 | 38.7 |
| Brébeuf         | 1P | 33.9       |        |            | 4720 | 42.5 |
| Albuquerque     | 1P | 45.0C      | e      | 58 56.0    | 4820 | 43.4 |
| Tucson          | eP | 55.4       |        |            | 4970 | 44.7 |

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|               |      |       |                   |      |            |           |       |
|---------------|------|-------|-------------------|------|------------|-----------|-------|
| Golden        | eP   | 01 59 | 05.4              |      |            | 5110      | 46.0  |
| Tonto Forest  | eP   |       | 07.3              | epP  | 01 59 26   | 5120      | 46.1  |
| Glamis        | P    |       | 22.0              |      |            | 5330      | 48.0  |
| Uinta Basin   | eP   |       | 27.0              | e(P) |            | 37.8 5420 | 48.8  |
| Flaming Gorge | eP   |       | 28.7              | e(S) |            | 41.0 5455 | 49.1  |
| Dugway        | eP   |       | 41.3              | e    |            | 53.2 5620 | 50.6  |
| Eureka        | iP   |       | 52.9              |      |            | 5800      | 52.2  |
| Bozeman SSS   | iP   | 02 00 | 01.5              | isP  | 02 00 14.5 | 5930      | 53.4  |
| Butte         | eP   |       | 06.7              |      |            | 6010      | 54.1  |
| Blue M.       | eP   |       | 19.5              |      |            | 6220      | 56.0  |
| Croville      | iP   |       | 19.8              |      |            | 6210      | 55.9  |
| Newport       | eP   |       | 33.0              |      |            | 6445      | 58.0  |
| Nordman       | eP   |       | 34.0              |      |            | 6455      | 58.1  |
| Edmonton      | iP   |       | 42.0              |      |            | 6600      | 59.4  |
| Longmire      | iP   |       | 46.5              |      |            | 6630      | 59.7  |
| Frobisher     | eP   |       | 53.6 <sup>C</sup> |      |            | 6780      | 61.0  |
| Lamto         | P    | 01    | 51.3              |      |            | 7745      | 69.7  |
| Averroes      | P    |       | 52.0              |      |            | 7745      | 69.7  |
| Ifrane        | P    | 02    | 04.0              |      |            | 7955      | 71.6  |
| Mould Bay     | eP   |       | 34.9 <sup>C</sup> |      |            | 8600      | 77.4  |
| College       | eiP  |       | 50.0              |      |            | 8920      | 80.3  |
| Palmer        | eP   |       | 50.0              |      |            | 8900      | 80.1  |
| Gilmore Creek | eP   |       | 50.3              |      |            | 8910      | 80.2  |
| Tamarasset    | eP   | 03    | 04                |      |            | 8900      | 80.1  |
| Waramunga     | ePKP | 10    | 27.5              |      |            | 16310     | 146.8 |
| Shillong      | PKP  |       | 28.5              |      |            | 16555     | 149.0 |

II.- 28 Janvier

Valais (Suisse)

46°3 N ; 7°5 E ; H = 02<sup>h</sup>.10<sup>mn</sup>49<sup>s</sup>.(BCIS)

|                    |       |       |                   |      |            |             |     |
|--------------------|-------|-------|-------------------|------|------------|-------------|-----|
| Roselend           | eiPg  | 02 11 | 05.1 <sup>C</sup> | 1S   | 02 11 17.0 | 90          | 0.8 |
| Lanslevillard      | eiPg  |       | 08.0              | 1Sg  |            | 23.2 120    | 1.3 |
| Basel              | P     |       | 13.6              |      |            | 140         | 1.2 |
| Vouglans           | eiPg  |       | 14.6              | 1!Sg |            | 32.2 140    | 1.3 |
| Ballon de Servance | ePn   |       | 17.3              |      |            | 180         | 1.6 |
| Feldberg           | ePn   |       | 19.9              | eSg  |            | 40.7 180    | 1.6 |
| Haudompré          | ePn   |       | 21.2              |      |            | 210         | 1.9 |
| Champ du Feu       | ePn   |       | 24.0              |      |            | 235         | 2.1 |
| Monteynard         | iPg   |       | 24.1              | 1Sg  |            | 48 200      | 1.8 |
| Welschbruch        | iPn   |       | 24.4              | 1Sg  |            | 56.2 235    | 2.1 |
| Isola              | e(Pg) |       | 27                | i    |            | 29.8 240    | 2.1 |
| Bünlerhohe         | iPn   |       | 28.0              | Sn   |            | 56.8 270    | 2.4 |
| Ravensbruck        | ePg   |       | 28.2              | eSg  |            | 55.7 230    | 2.1 |
| Les Buteaux        | ePn   |       | 31.1              |      |            | 280         | 2.5 |
| Stuttgart          | ePn   |       | 31.5              | eSg  |            | 12 18.4 305 | 2.7 |
| Sommée Lormes      | ePn   |       | 33.3              |      |            | 300         | 2.7 |
| Strasbourg         | ePg   |       | 34                | e    |            | 26 250      | 2.3 |
| St. Saulge         | ePn   |       | 36.5              |      |            | 320         | 2.9 |
| St. Paul en Foret  | ePn   |       | 38.9              |      |            | 310         | 2.8 |

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|                  |       |                      |     |            |     |     |
|------------------|-------|----------------------|-----|------------|-----|-----|
| Lorgues          | ePn   | 02 11 40.2           |     |            | 330 | 3'0 |
| Garchy           | (e)Pn | 40.5                 | iSg | 02 12 31.6 | 355 | 3'2 |
| La Mourre        | eP    | 41.7                 |     |            | 335 | 3'0 |
| Fürstenfeldbruck | ePb   | 46                   |     |            | 355 | 3'2 |
| Toulx Ste Croix  | ePn   | 47.4                 |     |            | 405 | 3'7 |
| Karlsruhe        | e(Pg) | 50                   | eSg | 20.5       | 310 | 2'8 |
| Erlangen         | ePg   | 12 09.3 <sup>F</sup> | eSg | 13 04      | 470 | 4'2 |
| Moxa             | ePg   | 30                   |     |            | 570 | 5'1 |
| Clermont         | eSg   | 32.5                 | e   | 22         | 345 | 3'1 |
| Pruhonice        | eIPg  | 41.8                 |     |            | 665 | 6'0 |
| Kasperské Hory   | e(Sn) | 56                   |     |            | 555 | 5'0 |
| Folinjare        | e(Sn) | 13 22.1              |     |            | 660 | 5'9 |
| St. Sauveur      | eSn   | 23.2                 |     |            | 625 | 5'6 |
| Le Pertre        | eSn   | 25.2                 |     |            | 675 | 6'1 |
| Gorron           | eSn   | 25.2                 |     |            | 670 | 6'0 |

Inscrit à Raciborz - Collm.

III.- 28 Janvier

Océan Pacifique ; au large sud du Mexique.

17° 50' N ; 105° 27' W ; H = 04h.56<sup>mn</sup>07s. (Tacubaya)

|                   |      |          |    |            |      |     |
|-------------------|------|----------|----|------------|------|-----|
| Manzanillo        | 1P   | 04 56 36 |    |            | 180  | 1'6 |
| Presa Infernillo  | 1P   | 57 00    |    |            | 370  | 3'3 |
| Leon              | 1P   | 28.6     | 1S | 04 58 22.6 | 535  | 4'8 |
| Nat. Univ. Mexico | 1P   | 42       | 1S | 55.5       | 675  | 6'1 |
| Tacubaya          | e(P) | 58 06    |    |            | 675  | 6'1 |
| Vista Hermosa     | 1P   | 14       |    |            | 930  | 8'4 |
| Presa B. Juarez   | 1P   | 33.4     |    |            | 1070 | 9'6 |

IV.- 28 Janvier

Région de la Nouvelle Irlande

5° 1 S ; 153° 5 E ; h = 152<sup>km</sup> ; H = 05h.24<sup>mn</sup>47s. (CGS)  
H = 05h.24<sup>mn</sup>46s. (Rabaul)

M. = 5.5 (Rabaul) ; 5.3 (Port Moresby - Shillong) ; 4.9 (CGS) ; 4.6 (College) ;  
4.2 (Blue M.).

|                 |    |                         |    |          |      |      |
|-----------------|----|-------------------------|----|----------|------|------|
| Wanliss Street  | 1P | 05 25 16.9 <sup>D</sup> |    |          | 180  | 1'6  |
| Rabalanakaia    | 1P | 17.5                    |    |          | 180  | 1'6  |
| Rabaul          | 1P | 18.4                    | 1S | 05 25 43 | 180  | 1'6  |
| Keravat         | 1P | 19.0                    |    |          | 180  | 1'6  |
| Esa'Ala         | 1P | 26 04.6                 | 1S | 27 06.2  |      |      |
| Honiara         | eP | 39.0                    |    |          | 855  | 7'7  |
| Port Moresby    | eP | 39.5                    | eS | 28 08    | 845  | 7'6  |
| Charters Towers | eP | 28 31                   | 1S | 31 38    | 1830 | 16'5 |
| Brisbane        | 1P | 29 27                   |    |          | 2470 | 22'2 |
| Warramunga      | eP | 47.5                    |    |          | 2645 | 23'8 |
| Kalgoorlie      | 1P | 31 33.4                 |    |          |      |      |

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|            |    |                   |   |          |      |
|------------|----|-------------------|---|----------|------|
| Shillong   | 1P | 05 35 28°0        |   | 6855     | 61°7 |
| New Dehli  | eP | 36 46             | e | 05 37 11 |      |
| College    | 1P | 49°1              |   | 9100     | 81°9 |
| Dehra Dun  | eP | 53                |   |          |      |
| South Pole | eP | 37 04°4           |   | 9545     | 85°9 |
| Eyrd       | e  | 27°4              |   | 9390     | 84°5 |
| Quetta     | eP | 30°4 <sup>C</sup> |   | 9955     | 89°6 |
| Blue M.    | eP | 43°9              |   | 10330    | 93°0 |

V.- 28 Janvier

Près de la cote de Guerrero (Mexique)

16° 28' N ; 100° 46' W ; H = 05h.59<sup>mm</sup>42°5S. (Tacubaya)

|                   |     |            |    |            |     |     |
|-------------------|-----|------------|----|------------|-----|-----|
| Presa Infiernillo | 1P  | 06 00 21°5 | 1S | 06 00 50°5 | 260 | 2°3 |
| Nat. Univ. Mexico | 1P  | 34         | 1S | 01 11      | 330 | 3°0 |
| Vista Hermosa     | 1P  | 46         |    |            | 440 | 4°0 |
| Presa B. Juarez   | ePP | 01 08°3    |    |            | 570 | 5°1 |
| Leon              | eSg | 02 08      |    |            | 520 | 4°7 |

inscrit à Tacubaya.

VI.- 28 Janvier

Données discordantes.

|           |    |                         |      |            |     |     |
|-----------|----|-------------------------|------|------------|-----|-----|
| Quetta    | eP | 07 53 46.9 <sup>D</sup> | e(S) | 07 54 54°9 |     |     |
| Warsak    | P  | 54 25                   |      |            |     |     |
| Mangla    | eP | 31°5                    |      |            |     |     |
| New Dehli | eP | 46                      | eS   | 56 10      | 810 | 7°3 |
| Dehra Dun | eP | 55 27°3                 | 1    | 57 22      |     |     |

VII.- 28 Janvier

Au large de la cote est de la Nouvelle Guinée.

Vers 7° 1/4 S ; 148° E ; H = 07h.53<sup>mm</sup>41S. (BCIS)

|                 |    |                         |    |          |  |  |
|-----------------|----|-------------------------|----|----------|--|--|
| Port Moresby    | 1P | 07 54 15°9 <sup>D</sup> | eS | 07 54 55 |  |  |
| Goroka          | eP | (23)                    | eS | 49       |  |  |
| Esa'Ala         | 1P | 36                      | 1S | 55 24°6  |  |  |
| Charters Towers | eP | 56 43                   |    |          |  |  |
| Brisbane        | 1P | 58 13                   | 1  | 59 41    |  |  |
| South Pole      | eP | 08 05 54°2              |    |          |  |  |



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VIII.- 28 Janvier

Province Sofala (Mozambique)

19° 8 S ; 34° 1 E ; H = 08h.40<sup>mn</sup>49s.; M. = 2°7 (Bulawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Chileka     | ePn | 08 41 55 | eSn | 08 42 38 |
| Karoi       | ePn | 42 02    | 1Sn | 57       |
| Broken Hill | ePn | 38       | eSg | 44 37    |

inscrit à Bulawayo

IX.- 28 Janvier

Prs de la cote du Nicaragua

12° 6 N ; 87° 9 W ; h = 75<sup>km</sup> ; H = 08h.47<sup>mn</sup>20.3s. (CGS)

M. = 4.8 (Newport - Wichita M. - Uinta Basin); 4.6 (Caracas); 4.4 (Dugway - CGS);  
4.3 (Cumberland Pl.); 4.2 (Blue M.); 3.9 (Tonto Forest); 3.8 (Eureka).

|                 |      |                         |     |            |       |       |
|-----------------|------|-------------------------|-----|------------|-------|-------|
| San Salvador    | iP   | 08 47 47.5 <sup>D</sup> | eS  | 08 48 05.0 | 190   | 1'7   |
| La Palma        | iP   | 53.7                    |     |            | 230   | 2'1   |
| Presa B. Juarez | iP   | 49 16.6                 |     |            |       |       |
| Vista Hermosa   | iP   | 40                      |     |            |       |       |
| Caracas         | iP   | 51 56.8                 |     |            | 2290  | 20.6  |
| San Juan        | eP   | 52 10.0                 | e   | 52 26.8    | 2410  | 21.7  |
| Cumberland Pl.  | eP   | 20.5                    | e   | 37.8       | 2555  | 23.0  |
| Oak Ridge       | eP   | 26.4                    |     |            | 2600  | 23.4  |
| Wichita M.      | eP   | 29.8                    | epP | 48.2       | 2680  | 24.1  |
| Lubbock         | eP   | 34.0                    |     |            | 2720  | 24.5  |
| Albuquerque     | eP   | 53 04.9                 |     |            | 3100  | 27.9  |
| Tucson          | eP   | 16.2                    |     |            | 3190  | 28.7  |
| Tonto Forest    | eP   | 27.1                    |     |            | 3370  | 30.3  |
| Uinta Basin     | eP   | 55.5                    | ePP | 55 06.3    | 3720  | 33.5  |
| Flaming Gorge   | eP   | 58.4                    | esP | 54 16.0    | 3770  | 33.9  |
| Dugway          | eP   | 54 10.6                 |     |            | 3910  | 35.2  |
| Eureka          | eP   | 21.0                    |     |            | 4055  | 36.5  |
| Bozeman SSS     | eP   | 38.2                    | esP | 55.0       | 4290  | 38.6  |
| Butte           | eP   | 44.0                    |     |            | 4370  | 39.3  |
| Blue M.         | eP   | 54.7                    |     |            | 4530  | 40.8  |
| Newport         | eP   | 55 14.0                 |     |            | 4790  | 43.1  |
| Nordman         | eP   | 15.0                    |     |            | 4800  | 43.2  |
| Edmonton        | eP   | 32.0                    |     |            | 5030  | 45.3  |
| Frobisher       | eP   | 56 29.0                 |     |            | 5670  | 52.8  |
| Resolute        | eP   | 57 34.0                 |     |            | 6910  | 62.2  |
| Mould Bay       | eP   | 58.0                    |     |            | 7310  | 65.8  |
| College         | eP   | 58 06.0                 |     |            | 7345  | 66.1  |
| Warramunga      | ePKP | 09 06 44.5              |     |            | 15430 | 138.9 |
| Mundaring       | ePKP | 07 07.8                 |     |            | 18745 | 150.7 |

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Parc National de Yellowstone (Wyoming, U.S.A.)

44°4 N ; 110°6 W ; h = 33<sup>km</sup> ; H = 10<sup>h.34<sup>mn</sup></sup>32.9<sup>s.</sup> (CGS)

M. = 3.8 (Eureka - CGS):.

|               |     |            |     |            |     |     |
|---------------|-----|------------|-----|------------|-----|-----|
| Bozeman SSS   | iP  | 10 34 56.5 | iS  | 10 35 08.0 | 155 | 1.4 |
| Eutte         | ePn | 35 08.4    | iPg | 13.3       | 245 | 2.2 |
| Flaming Gorge | iPn | 26.7       | iLg | 38 22.5    | 400 | 3.6 |
| Uinta Basin   | ePn | 34.6       | eS  | 31.9       | 455 | 4.1 |
| Dugway        | eP  | 41.5       |     |            | 500 | 4.5 |
| Blue M.       | ePn | 45.6       |     |            | 530 | 4.8 |
| Newport       | eP  | 38 01.0    |     |            | 670 | 6.0 |
| Nordman       | eP  | 02.0       |     |            | 680 | 6.1 |
| Eureka        | eP  | 15.2       |     |            | 700 | 6.3 |

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Région de la Nouvelle Bretagne.

H = 11<sup>h.13<sup>mn</sup></sup>44<sup>s.</sup>; M. = 5.0 (Rabaul)

|              |    |                       |    |          |  |  |
|--------------|----|-----------------------|----|----------|--|--|
| Keravat      | iP | 11 14 17 <sup>D</sup> | iS | 11 14 44 |  |  |
| Rabalanakaia | iP | 17.9 <sup>D</sup>     |    |          |  |  |
| Rabaul       | iP | 18.5 <sup>D</sup>     | iS | 44.0     |  |  |
| Port Moresby | iP | 15 36.1               | eS | 17 07    |  |  |
| Brisbane     | iP | 18 26.5               |    |          |  |  |
| Warramunga   | eP | 45.5                  |    |          |  |  |

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Sud des Iles Fidji.

23°7 S ; 179°9 W ; h = 462<sup>km</sup> ; H = 11<sup>h.40<sup>mn</sup></sup>36.9<sup>s.</sup> (CGS)

M. = 5.3 (Port Moresby); 5.2 (Shillong); 4.8 (Uinta Basin); 4.6 (Wichita M.);  
4.4 (Albuquerque - CGS); 4.3 (Eureka); 4.0 (Blue M.); 3.9 (Tonto Forest)

|                 |    |                      |    |          |      |      |
|-----------------|----|----------------------|----|----------|------|------|
| Afiamalu        | eP | 11 43 21             | eS | 11 45 30 | 1380 | 12.4 |
| Brisbane        | eP | 45 24 <sup>D</sup>   |    |          | 2770 | 24.9 |
| Charters Towers | iP | 46 22 <sup>D</sup>   |    |          | 3510 | 31.6 |
| Toolangi        | iP | 30.6 <sup>D</sup>    |    |          | 3620 | 32.6 |
| Tasmania Univ.  | iP | 35.0 <sup>C</sup>    |    |          | 3680 | 33.1 |
| Tarraleah       | eP | 37.0                 |    |          | 3720 | 33.5 |
| Port Moresby    | iP | 46.9                 |    |          | 3830 | 34.5 |
| Warramunga      | eP | 47 50.5              |    |          | 4720 | 42.5 |
| Kalgoorlie      | iP | 48 31.9 <sup>D</sup> |    |          |      |      |
| South Pole      | eP | 50 40.7              |    |          | 7380 | 66.4 |
| Priest          | eP | 52 06.5 <sup>C</sup> |    |          | 9080 | 81.7 |
| Berkeley        | eP | 07.5                 |    |          | 9080 | 81.7 |

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|              |    |                         |       |       |
|--------------|----|-------------------------|-------|-------|
| Mt. Hamilton | eP | 11 52 08.2 <sup>C</sup> | 9090  | 81°8  |
| Pasadena     | iP | 09.0                    | 9120  | 82°1  |
| Jamestown    | eP | 13.4 <sup>C</sup>       | 9210  | 82°9  |
| Oroville     | iP | 15.1                    | 9245  | 83°2  |
| Tucson       | eP | 31.3                    | 9590  | 86°3  |
| Eureka       | iP | 31.6                    | 9620  | 86°6  |
| Tonto Forest | eP | 33.9                    | 9670  | 87°0  |
| Blue M.      | eP | 41.5                    | 9880  | 88°9  |
| Albuquerque  | eP | 50.8                    | 10090 | 90°8  |
| Uinta Basin  | eP | 53.1                    | 10130 | 91°2  |
| Chittagong   | eP | 54                      |       |       |
| Wichita M.   | eP | 53 15.2                 | 10720 | 96°5  |
| Coppermine   | e  | 16.0                    | 11420 | 102°8 |
| Shillong     | iP | 17.0                    | 10930 | 98°4  |

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Données discordantes.

|                 |    |                   |    |          |
|-----------------|----|-------------------|----|----------|
| Addis Ababa     | eP | 11 47 04          |    |          |
| Chiraz          | P  | 48 15.6           |    |          |
| Kermanshah      | eP | (25)              |    |          |
| Téhéran         | eP | 49 05             |    |          |
| Butare          | ei | 41.4              | e  | 11 57 39 |
| Bangui          | iP | 52.2 <sup>D</sup> | iD | 07.8     |
| Tamanrasset     | i  | 50 49             | i  | 50 53    |
| Kasperské Hory  | ei | 51 27.5           |    |          |
| Roselend        | ei | 39.0              |    |          |
| Collm           | e  | 43                |    |          |
| Moxa            | eP | 43.5              |    |          |
| Les Buteaux     | eP | 58.3              |    |          |
| Sommée Lormes   | eP | 52 00.2           |    |          |
| St. Saulge      | eP | 00.9              |    |          |
| Garchy          | i  | 04.4 <sup>V</sup> |    |          |
| Toulx Ste Croix | eP | 04.9              |    |          |

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Ile du Nord (Nouvelle-Zélande)

M. = 5.2(Wellington)

|            |    |          |    |          |
|------------|----|----------|----|----------|
| Gisborne   | eP | 12 33 06 | eS | 12 33 49 |
| Karapiro   | eP | 10       |    |          |
| Wellington | P  | 44       | S  | 35 06    |

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Région de la Nouvelle Bretagne

H = 13.48<sup>h. 48 min</sup> 28 s.; M. = 5.3(Rabaul)

|        |    |            |    |            |
|--------|----|------------|----|------------|
| Rabaul | iP | 13 49 03.0 | iS | 14 49 32.0 |
|--------|----|------------|----|------------|

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|              |      |                       |    |          |
|--------------|------|-----------------------|----|----------|
| Keravat      | eIP  | 13 49 04 <sup>D</sup> | 1S | 13 49 31 |
| Rabalanakaia | iP   | 04 <sup>9D</sup>      |    |          |
| Port Moresby | eP   | 50 22 <sup>5</sup>    | eS | 51 54    |
| Brisbane     | e(P) | 53 05                 |    |          |
| Warramunga   | eP   | 33 <sup>5</sup>       |    |          |

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Nord-Ouest de la Russie (Explosion ?)

66°9 N ; 31°2 E ; H = 13<sup>h</sup>.59<sup>mn</sup>22<sup>s</sup>. (Uppsala)

|            |     |                       |
|------------|-----|-----------------------|
| Kiruna     | iSb | 14 01 31 <sup>3</sup> |
| Uméa       | eSn | 50                    |
| Skalstugan | eSg | 04 00 <sup>1</sup>    |
| Uppsala    | eSg | 25 <sup>6</sup>       |

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Province de Jujuy (Argentine)

23°9 S ; 65°4 W ; h = 34<sup>km</sup> ; H = 15<sup>h</sup>.19<sup>mn</sup>48<sup>s</sup>. (CGS)

M. = 5<sup>6</sup>(La Paz) ; 5<sup>1</sup>(Cumberland Pl.) ; 4<sup>8</sup>(Eureka) ; 4<sup>7</sup>(Dugway - CGS -  
Penas) ; 4<sup>6</sup>(Blue M. - Tonto Forest - Uinta Basin) ; 4<sup>5</sup>(Wichita M.) ;  
4<sup>2</sup>(Albuquerque).

|                |     |                        |        |                    |      |
|----------------|-----|------------------------|--------|--------------------|------|
| Antofagasta    | P   | 15 21 07 <sup>5C</sup> | 1S     | 15 23 02           |      |
| Cochabamba     | P   | 24 <sup>9</sup>        |        |                    |      |
| La Paz         | P   | 47 <sup>3C</sup>       |        |                    | 855  |
| Penas          | eP  | 47 <sup>8</sup>        |        |                    | 900  |
| Arequipa       | eP  | 22 05 <sup>2</sup>     |        |                    | 1030 |
| Peldehue       | eP  | 30 <sup>9</sup>        | e      | 25 31 <sup>7</sup> |      |
| Huancayo       | eP  | 23 25 <sup>0</sup>     |        |                    | 1680 |
| Bogota         | eP  | 25 51 <sup>5</sup>     | eS     | 33 27 <sup>0</sup> | 3290 |
| Cumberland Pl. | eP  | 30 06 <sup>7</sup>     |        |                    | 6910 |
| Lamto          | P   | 33 <sup>2</sup>        |        |                    | 8330 |
| Wichita M.     | eP  | 33 <sup>7</sup>        | ePcP   | 31 04 <sup>4</sup> | 7370 |
| South Pole     | eP  | 34 <sup>0</sup>        |        |                    | 7355 |
| Albuquerque    | eP  | 31 01 <sup>5</sup>     |        |                    | 7810 |
| Tonto Forest   | eP  | 14 <sup>8</sup>        | e(PcP) | 21 <sup>2</sup>    | 8045 |
| Uinta Basin    | eP  | 34 <sup>9</sup>        | ePcP   | 41 <sup>2</sup>    | 8445 |
| Dugway         | eP  | 44 <sup>0</sup>        |        |                    | 8620 |
| Eureka         | iP  | 50 <sup>7</sup>        |        |                    | 8730 |
| Rozeman SSS    | eP  | 32 02 <sup>0</sup>     |        |                    | 8990 |
| Ifrane         | eIP | 03 <sup>5</sup>        |        |                    | 8990 |
| Butte          | eP  | 06 <sup>1</sup>        |        |                    | 9080 |
| Oroville       | eP  | 07 <sup>3</sup>        |        |                    | 9110 |
| Blue M.        | eP  | 13 <sup>2</sup>        |        |                    | 9245 |
| Tamanrasset    | iP  | 15 <sup>0</sup>        |        |                    | 9230 |
| Bulawayo.      | eP  | 21                     | e      | 32 26              | 9510 |

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|             |    |            |      |            |      |      |
|-------------|----|------------|------|------------|------|------|
| Bangui      | 1P | 15 32 30.7 | 1PcP | 15 32 34.7 |      |      |
| Broken Hill | 1P | 37         |      |            | 9745 | 87.7 |
| Karoi       | eP | 37         |      |            | 9755 | 87.8 |

inscrit à Caracas.

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Région des Iles Fidji.

20° 1 S ; 177° 7 W ; h = 545 km ; H = 15<sup>h</sup>.42<sup>mn</sup>53<sup>s</sup>. (CGS)

M. = 3.4 (CGS) ; Blue M.).

|                 |    |                      |    |          |      |      |
|-----------------|----|----------------------|----|----------|------|------|
| AfiamaLu        | eP | 15 44 55             | eS | 15 46 30 | 930  | 8.4  |
| Ouanaham        | 1P | 45 44.9 <sup>C</sup> |    |          | 1570 | 14.1 |
| Port Vila       | 1P | 47.8 <sup>C</sup>    |    |          | 1490 | 13.4 |
| Luganville      | 1P | 46 04.2 <sup>C</sup> |    |          | 1680 | 15.1 |
| Nouméa          | 1P | 04.6 <sup>C</sup>    |    |          | 1655 | 14.9 |
| Brisbane        | 1P | 48 01                |    |          | 3100 | 27.9 |
| Charters Towers | 1P | 51 <sup>D</sup>      |    |          | 3755 | 33.8 |
| Port Moresby    | 1P | 49 05.6 <sup>D</sup> |    |          |      |      |
| Warramunga      | 1P | 50 19.5 <sup>C</sup> |    |          | 4990 | 44.9 |
| South Pole      | eP | 53 12.6              |    |          | 7780 | 70.0 |
| Blue M.         | eP | 54 32.0              |    |          | 9420 | 84.8 |
| College         | eP | 44.6                 |    |          | 9755 | 87.8 |

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Valais (Suisse)

46° 3N, 7° 5E

H = 16<sup>h</sup>27<sup>mn</sup>10<sup>s</sup> (BCIS)

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|                    |      |            |     |            |     |     |
|--------------------|------|------------|-----|------------|-----|-----|
| Roselend           | e1Pg | 16 27 23.7 | 1SG | 16 29 33.9 | 90  | 0.8 |
| Lanslevillard      | 1Pg  | 26.5       | 1SG | 27 38.9    | 130 | 1.2 |
| Ballon de Servance | ePn  | 39.1       |     |            | 180 | 1.6 |
| Haudompré          | ePn  | 43.0       |     |            | 210 | 1.9 |
| Monteynard         | 1Pg  | 43         |     |            | 200 | 1.8 |
| Welschbruch        | 1Pn  | 45.6       | 1SG | 28 19.6    | 235 | 2.1 |
| Champ du Feu       | ePn  | 45.7       |     |            |     |     |
| St Paul en Forêt   | ePn  | 54.2       |     |            | 310 | 2.8 |
| Les Buteaux        | ePn  | 54.2       |     |            | 280 | 2.5 |
| Sommée Lormes      | eP   | 56.0       |     |            | 300 | 2.7 |
| Lorgues            | ePn  | 56.3       |     |            | 330 | 3.0 |
| Buhlerhohe         | ePn  | 56.5       | Sn  | 34.2       |     |     |
| La Mourre          | ePn  | 57.6       |     |            | 335 | 3.0 |
| St Saulge          | ePn  | 57.6       |     |            | 320 | 2.9 |
| Toulx Ste Croix    | ePn  | 28 08.8    |     |            | 405 | 3.7 |
| Erlangen           | ePg  | 30.0       | eSG | 29 25      | 470 | 4.2 |
| Kasperské Hory     | eS   | 46         |     |            | 555 | 5.0 |

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Région de la Nouvelle Bretagne

H = 16<sup>h</sup>30<sup>mn</sup>40<sup>s</sup>. M = 4.9 (Rabaul)

|              |    |                       |    |          |
|--------------|----|-----------------------|----|----------|
| Keravat      | iP | 16 31 22 <sup>D</sup> | iS | 16 31 47 |
| Rabaul       | iP | 22.2 <sup>D</sup>     | iS | 54       |
| Port Moresby | eP | 32 39                 | eS | 34 10    |
| Brisbane     | iP | 35 29                 |    |          |
| Warramunga   | eP | 49                    |    |          |

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Iles Loyauté

21° 3/4<sup>S</sup>, 168° 3/4<sup>E</sup> H = 16<sup>h</sup>49<sup>mn</sup>35<sup>s</sup>  
M = 3.4 (Nouméa)

|          |     |            |    |          |
|----------|-----|------------|----|----------|
| Ouanaham | eIP | 16 50 04.7 | iS | 16 50 24 |
| Nouméa   | eIP | 11.7       | iS | 41       |

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Nicaragua

12° 1' N, 86° 9' W, h = 152 km. H = 18<sup>h</sup>20<sup>mn</sup>49.7<sup>s</sup> (CGS)  
M = 5.3 (Wichita M), 4.6 (Cumberland Pl), 4.4 (Uinta Basin,  
CGS), 4.3 (Tonto Forest), 4.1 (Blue M), 4.0 (Dugway).

|                 |     |            |      |            |       |      |
|-----------------|-----|------------|------|------------|-------|------|
| La Palma        | iP  | 18 21 33.6 |      | 345        | 3.1   |      |
| Presa B. Juarez | iP  | 23 01.4    |      |            |       |      |
| Vista Hermosa   | iP  | 24         |      |            |       |      |
| Cumberland Pl   | eP  | 25 45.9    |      | 2600       | 23.4  |      |
| Oak Ridge       | iP  | 50.8       |      | 2645       | 23.8  |      |
| Wichita M.      | eP  | 58.8       | ePP  | 18 28 25.7 | 2770  | 24.9 |
| Lubbock         | eP  | 26 04.0    |      | 2820       | 25.4  |      |
| Albuquerque     | eP  | 37.2       | e    | 27 07.5    | 3200  | 28.8 |
| Tucson          | eP  | 44.0       | e    | 28 51.5    | 3310  | 29.8 |
| Tonto Forest    | eP  | 58.4       | ePCP | 29 49.3    | 3480  | 31.3 |
| Penas           | eP  | 27 18.2    |      | 3730       | 33.6  |      |
| La Paz          | eP  | 20         |      |            |       |      |
| Uinta Basin     | eP  | 25.8       |      | 3830       | 34.5  |      |
| Dugway          | eP  | 39.5       | e    | 27 09.5    | 4010  | 36.1 |
| Bozeman SSS     | eP  | 28 06.9    | e    | 28 37.0    | 4380  | 39.4 |
| Blue M          | eP  | 23.7       | e    | 52.7       | 4630  | 41.7 |
| Mould Bay       | eP  | 31 22.0    |      | 7380       | 66.4  |      |
| Toolangi        | PKP | 39 39.0    |      | 14110      | 127.0 |      |
| Warlamunga      | PKP | 40 03.0    |      | 15520      | 139.7 |      |

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Région de la Nouvelle Bretagne

H = 18<sup>h</sup>32<sup>mn</sup>22<sup>s</sup>. M = 4.9 (Rabaul)

|                |     |                       |    |              |
|----------------|-----|-----------------------|----|--------------|
| Keravat        | iP  | 18 32 52 <sup>D</sup> | iS | 18 33 (17.5) |
| Rabalanakaia   | iP  | 53.8 <sup>D</sup>     |    |              |
| Racaul         | eIP | 54                    | iS | 18.2         |
| Wanless Street | iP  | 54.3 <sup>D</sup>     |    |              |

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|              |    |            |    |          |
|--------------|----|------------|----|----------|
| Port Moresby | eP | 18 34 11.5 | eS | 18 35 42 |
| Brisbane     | eP | 37 01.5    |    |          |
| Warramunga   | eP | 22         |    |          |

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Région de l'île Kodiak

56° 7'N, 153° 3'W, h = 64 km. H = 20h52<sup>mn</sup>29<sup>s</sup> (CGS)  
M = 5.2 (CGS, Dugway)

|                |    |            |      |      |
|----------------|----|------------|------|------|
| Kodiak         | eP | 20 52 50.4 | 120  | 1.1  |
| Big M.         | eP | 53 13.5    | 320  | 2.9  |
| Sparrevohn     | iP | 37.3       | 510  | 4.6  |
| Mt Sheep Creek | eP | 56.0       | 670  | 6.0  |
| Black Rapids   | eP | 54 21.2    | 870  | 7.8  |
| Tanana         | eP | 34.0       | 955  | 8.6  |
| Pedro Dome     | eP | 34.7       | 980  | 8.8  |
| Coppermine     | eP | 57 06.0    | 2290 | 20.6 |
| Dugway         | eP | 58 41.3    | 3430 | 30.9 |
| La Paz         | eP | 21 06 19   |      |      |

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Sicile

Réplique : H = 21h37<sup>mn</sup>20<sup>s</sup> (ING) M = 3.51 (Messina)

|                  |     |            |     |            |
|------------------|-----|------------|-----|------------|
| Messina          | iPn | 21 38 03.2 | iSn | 21 38 31.9 |
| Messina ING      | e   | (08.3)     | e   | 43.0       |
| La Mourre        | eIP | 39 15.9    |     |            |
| St Paul en Foret | eIP | 17.5       |     |            |
| Lorgues          | eIP | 18.8       |     |            |

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Sicile

Réplique : H = 22h21<sup>mn</sup>26<sup>s</sup> (ING) M = 3.60 (Roma)

|                  |     |            |     |            |
|------------------|-----|------------|-----|------------|
| Messina          | ePn | 22 22 06.7 | iSg | 22 22 38.0 |
| Messina ING      | e   | (08.9)     | e   | 44.9       |
| Reggio Calabria  | ePn | 09.4       | i   | 55.7       |
| Roma             | e   | 23 09.2    | e   | 23 48      |
| La Mourre        | eP  | 19.5       |     |            |
| St Paul en Foret | eP  | 20.5       |     |            |
| Lorgues          | eP  | 21.3       |     |            |
| Ljubljana        | eP  | 34         |     |            |
| Kasperské Hory   | e   | 24 13      |     |            |
| Pruhonice        | e   | 27         |     |            |
| Collm            | e   | 47         |     |            |

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Préfecture de Chiba (Japon)

35° 21'N, 140° 11'E, h = 70 km. H = 22h22<sup>mn</sup>29.1<sup>s</sup> (JMA)

|          |    |            |    |            |    |     |
|----------|----|------------|----|------------|----|-----|
| Yokohama | eP | 22 22 42.6 | iS | 22 22 51.2 | 49 | 0.4 |
| Tomisaki | iP | 44.0       | iS | 53.2       | 58 | 0.5 |
| Tokyo    | eP | 44.5       | S  | 52.0       | 53 | 0.5 |

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|            |    |       |      |    |       |      |     |     |
|------------|----|-------|------|----|-------|------|-----|-----|
| Kakioka    | P  | 22 22 | 46.2 | S  | 22 22 | 57.4 | 98  | 0.9 |
| Oshima     | eP |       | 46.8 | S  |       | 59.1 | 98  | 0.9 |
| Ajiro      | iP |       | 47.2 | iS |       | 59.4 | 105 | 0.9 |
| Utsunomiya | P  |       | 48.2 | S  | 23    | 04.8 | 136 | 1.2 |
| Mito       | P  |       | 48.9 | iS |       | 01.3 | 117 | 1.1 |
| Mishima    | eP |       | 49.1 | iS |       | 02.1 | 117 | 1.1 |
| Kumagaya   | eP |       | 49.6 | eS |       | 03.6 | 114 | 1.0 |
| Funatsu    | iP |       | 50.1 | iS |       | 03.8 | 130 | 1.2 |
| Kofu       | eP |       | 55.4 | S  |       | 08.4 | 151 | 1.4 |
| Shizuoka   | P  |       | 55.8 | S  |       | 14.3 | 167 | 1.5 |
| Matsushiro | iP | 23    | 01.4 | iS |       | 25.1 | 222 | 2.0 |

XXVIII. 28 janvier  
Grèce

37°5'N, 23°0'E

H = 22<sup>h</sup>49<sup>m</sup>18<sup>s</sup>

M = 2.8 (Athènes)

|           |       |       |      |      |       |         |       |     |
|-----------|-------|-------|------|------|-------|---------|-------|-----|
| Athènes   | ePg   | 22 49 | 34.0 | eISg | 22 49 | 44.9    | 85    | 0.8 |
| Valsamata | ePn   |       | 53.7 | eSn  |       | 50 20.4 | 225   | 2.0 |
| Paraskevi | e(Pn) | 50    | 13.7 |      |       |         | (350) | 3.2 |

I. 29 janvier  
Mexique

H = 01<sup>h</sup>20<sup>m</sup>55<sup>s</sup> (Tacubaya)

|                   |    |       |       |    |       |      |     |     |
|-------------------|----|-------|-------|----|-------|------|-----|-----|
| Presa Benito J.   | iP | 01 21 | 26.8  | iS | 01 21 | 49.3 | 205 | 1.8 |
| Vista Hermosa     | iP |       | 40    |    |       |      | 300 | 2.7 |
| Nat. Univ. Mexico | e  |       | 23 02 |    |       |      |     |     |
| Tacubaya          | e  |       | 31    |    |       |      |     |     |

II. 29 janvier  
Lac barrage de Kariba

21°8'S, 26°9'E

H = 01<sup>h</sup>57<sup>m</sup>05<sup>s</sup>

M = 5.5 (Bulawayo)

|             |     |       |       |     |       |    |  |  |
|-------------|-----|-------|-------|-----|-------|----|--|--|
| Karoi       | ePn | 01 57 | 47    | iSg | 01 58 | 21 |  |  |
| Bulawayo    | ePn |       | 51    | iSg |       | 33 |  |  |
| Broken Hill | ePn |       | 58 10 | eSg |       | 55 |  |  |

inscrit à Chileka, Bangui, M<sup>l</sup>Bour.

III. 29 janvier  
Données insuffisantes

|               |   |       |       |    |       |      |  |  |
|---------------|---|-------|-------|----|-------|------|--|--|
| Isola         | i | 02 00 | 41.1  |    |       |      |  |  |
| Lanslevillard | e |       | 55.1  | eI | 02 01 | 25.8 |  |  |
| Roselend      | e |       | 01 03 | e  |       | 33   |  |  |
| Clermont      | e |       | 02 05 |    |       |      |  |  |

inscrit à Monteynard.



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IV. 29 janvier  
Mexique

H = 02h09mn26s (Tacubaya)

|                   |     |            |     |            |     |     |
|-------------------|-----|------------|-----|------------|-----|-----|
| Presa Benito J.   | iPn | 02 09 44.3 | iSn | 02 09 55.8 | 105 | 0.9 |
| Vista Hermosa     | iP  | 53         | iS  | 10 11      | 160 | 1.5 |
| Nat. Univ. Mexico | e   | 11 27      |     |            |     |     |

V. 29 janvier  
Valais (Suisse)

Réplique du séisme du 29 janvier à 09h10mn49s

46° 3'N, 7° 5'E

H = 03h02mn35s (BCIS)

|               |      |            |      |            |     |     |
|---------------|------|------------|------|------------|-----|-----|
| Roselend      | eiPg | 03 02 46.3 | eiSg | 03 02 57.5 | 90  | 0.8 |
| Lanslevillard | ePg  | 51         | ei   | 55.8       | 130 | 1.2 |
| Les Buteaux   | ePg  | 03 14.9    |      |            |     |     |
| Sommée Lormes | ePg  | 17.8       |      |            |     |     |
| St Saulge     | ePg  | 18.4       |      |            |     |     |

VI. 29 janvier  
Données insuffisantes

|                 |      |             |   |          |  |  |
|-----------------|------|-------------|---|----------|--|--|
| Meekatharra     | iP   | 04 22 18.9C |   |          |  |  |
| Kalgoorlie      | iP   | 23 00.9D    |   |          |  |  |
| Mundaring       | iP   | 13.5D       |   |          |  |  |
| Charters Towers | e(P) | 54          |   |          |  |  |
| Brisbane        | iP   | 25 06.3C    | i | 04 25 46 |  |  |
| Warramunga      | eP   | 16.5C       | e | 34.5     |  |  |

VII. 29 janvier  
Région de l'Hindou Kouch

|                       |            |                           |
|-----------------------|------------|---------------------------|
| 36° 3'N, 70° 4'E      | h = 225 km | H = 05h00mn10s (CGS)      |
| 36° 5'N, 70° 4'E      | h = 210 km | H = 05h00mn09s (URSS)     |
| 36° 7'N, 71° 2'E      | h = 160 km | H = 05h00mn14s (Quetta)   |
| Vers 36° 0'N, 71° 0'E |            | H = 05h00mn05s (Shillong) |

Ressenti à Peshawar, Rawalpindi et Lahore.

M = 6.0 (Poona, College, Frobisher, Edmonton), 5.9 (Uppsala, Kiruna, Nurmijaervi), 5.8 (Godhavn), 5.7 (Gilmore creek, Kevo, Kajaani), 5.6 (Kobenhavn, Mt Tsukuba, Palmer), 5.5 (CGS, Wichita M), 5.4 (Station Nord), 5.2 (Port Moresby, Eureka), 5.1 (Shiraki, Kap Tobin, Alert, Uinta Basin), 4.8 (Addis Ababa), 4.4 (Blue M).

|           |    |           |    |            |     |     |
|-----------|----|-----------|----|------------|-----|-----|
| Koulyab   | iP | 05 00 45C | iS | 05 01 09.6 | 185 | 1.7 |
| Douchambé | iP | 53C       | iS | 26         | 290 | 2.6 |
| Warsak    | P  | 54        |    |            | 255 | 2.3 |
| Garm      | iP | 54.3      | iS | 24.3       | 300 | 2.7 |
| Samarkand | iP | 01 14.5   | iS | 57         | 480 | 4.3 |
| Mangla    | iP | 16.6C     |    |            | 465 | 4.2 |

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|                |     |          |     |            |       |      |
|----------------|-----|----------|-----|------------|-------|------|
| Tachkent       | iP  | 05 01 24 | 1S  | 05 02 18.5 | 565   | 5.1  |
| Lahore         | P   | 35       | S   | 34         | 645   | 5.8  |
| Quetta         | iP  | 48.7D    | eS  | 03 04.8    | 755   | 6.8  |
| Frounze        | iP  | 52.5D    | 1S  | 11         | 810   | 7.3  |
| Mashad         | eP  | 02 07.5  |     |            | 965   | 8.7  |
| Talgar         | iP  | 11       |     |            | 975   | 8.8  |
| Prjevalsk      | iP  | 11.8D    |     |            | 970   | 8.7  |
| Dehra Dun      | iP  | 14       | e   | 53         | 970   | 8.7  |
| New Dehli      | iP  | 23.4     | 1S  | 04 03      | 1055  | 9.5  |
| Vannovskaya    | P   | 28       |     |            | 1105  | 10.0 |
| Achkhabad      | eP  | 29       |     |            | 1085  | 9.8  |
| Kizyl Arvat    | eP  | 45       |     |            | 1285  | 11.6 |
| Sehore         | iP  | 03 13    | i   | 05 59      | 1590  | 14.3 |
| Sempalatinsk   | eP  | 38.8     | 1S  | 06 28.1    | 1755  | 15.8 |
| Téhéran        | eP  | 39       |     |            | 1710  | 15.4 |
| Chatra         | iP  | 59       | S   | 07 08      | 1900  | 17.1 |
| Bombay         | iP  | 04 04    |     |            | 1945  | 17.5 |
| Poona          | iP  | 08.3C    | eS  | 27 27      | 2000  | 18.0 |
| Bokaro         | iP  | 11       | i   | 07 26      | 2020  | 18.2 |
| Kirovabad      | P   | 19       |     |            | 2145  | 19.3 |
| Goris          | iP  | 19C      | 1S  | 42         | 2140  | 19.2 |
| Tabriz         | eP  | 20       |     |            | 2145  | 19.3 |
| Tbilisi        | P   | 34       | S   | 59         | 2285  | 20.6 |
| Calcutta       | iP  | 41       | 1S  | 08 19      | 2305  | 22.8 |
| Shillong       | iP  | 41       |     |            | 2365  | 21.3 |
| Sverdlovsk     | iP  | 42C      | S   | 25         | 2395  | 21.5 |
| Goa            | eP  | 42       | PcP | 45.8       | 2 330 | 21.0 |
| Bakouriani     | iP  | 44.2     |     |            | 2395  | 21.5 |
| Esen Boulak    | iP  | 45       |     |            | 2420  | 21.8 |
| Vishakhapatnam | iP  | 47       | i   | 32         | 2415  | 21.7 |
| Poti           | iP  | 47.2     |     |            |       |      |
| Chittagong     | P   | 05 01    | S   | 59         | 2580  | 23.2 |
| Madras         | iP  | 15       | i   | 09 23      | 2755  | 24.6 |
| Kodaikanal     | iP  | 34       |     |            | 2970  | 26.7 |
| Ksara          | iP  | 47       | i   | 06 31      | 3140  | 28.3 |
| Irkoutsk       | P   | 48C      |     |            | 3190  | 28.7 |
| Oulan Bator    | iP  | 55       |     |            | 3245  | 29.2 |
| Moskva         | iP  | 55C      | i   | 10 27      | 3280  | 29.5 |
| Jérusalem      | iP  | 56       |     |            | 3265  | 29.4 |
| Port Blair     | eP  | 06 17    | i   | 11 15      | 3525  | 31.7 |
| Istanbul Kand. | eP  | 20.7     |     |            | 3600  | 32.4 |
| Kichinev       | iP  | 21C      |     |            | 3610  | 32.5 |
| Jasi           | P   | 27C      |     |            | 3710  | 33.4 |
| Bacau          | P   | 32       |     |            | 3755  | 33.8 |
| Rhodes         | eIP | 34D      |     |            | 3750  | 33.8 |
| Vrincioaia     | P   | 35C      |     |            | 3765  | 33.9 |
| Poulkovo       | iP  | 40C      |     |            | 3865  | 34.8 |
| Paraskevi      | eP  | 40.9     |     |            | 3860  | 34.7 |
| Campulung      | eP  | 45       |     |            | 3820  | 34.4 |
| Bodajbo        | iP  | 49       |     |            | 3990  | 35.9 |
| Lvov           | eP  | 51       | i   | 07 37      | 3990  | 35.9 |
| Athènes        | eIP | 59.6C    |     |            | 4110  | 37.0 |

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|                  |       |          |      |            |  |      |      |
|------------------|-------|----------|------|------------|--|------|------|
| Oujgorod         | eP    | 05 07 00 |      |            |  | 4110 | 37·0 |
| Nurmijaervi      | iP    | 05       | isP  | 05 07 51·6 |  | 4190 | 37·7 |
| Kajaanii         | iP    | 05·2     | isP  | 48·5       |  | 4200 | 37·8 |
| Niedzica         | eP    | 11       |      |            |  | 4255 | 38·3 |
| Krakow           | eipP  | 12       |      |            |  | 4285 | 38·5 |
| Oulu             | eP    | 14       |      |            |  | 4325 | 38·9 |
| Focsani          | (PP)  | 18       |      |            |  | 3730 | 33·6 |
| Valsamata        | eP    | 19·5     |      |            |  | 4370 | 39·3 |
| Srobarova        | eipP  | 22       |      |            |  | 4405 | 39·6 |
| Sodankylae       | eP    | 22       |      |            |  | 4410 | 39·7 |
| Addis Ababa      | eP    | 24       | eS   | 13 16      |  | 4390 | 39·5 |
| Bratislava       | eipP  | 28       | ei   | 07 48      |  | 4495 | 40·4 |
| Umea             | iP    | 29·5C    |      |            |  | 4525 | 40·7 |
| Kevo             | iP    | 30·8     |      |            |  | 4535 | 40·8 |
| Uppsala          | iP    | 30·8     | i    | 08 17·3    |  | 4545 | 40·9 |
| Wien Kobenzl     | eP    | 32C      | i    | 19·8       |  | 4555 | 41·0 |
| Wien             | eipP  | 32·5C    |      |            |  | 4550 | 40·9 |
| Kiruna           | iP    | 40·9     |      |            |  | 4665 | 42·0 |
| Pruhonice        | P     | 41·3C    | e    | 26         |  | 4665 | 42·0 |
| Ljubljana        | eP    | 43       | eS   | 14 27      |  | 4710 | 42·4 |
| Kasperské Hory   | P     | 46       |      |            |  | 4745 | 42·7 |
| Collm            | eP    | 47       | e    | 08 33      |  | 4765 | 42·9 |
| Trieste          | eP    | 48       | e    | 09 32      |  | 4780 | 43·0 |
| Messina          | eP    | 50       |      |            |  | 4795 | 43·2 |
| Kobenhavn        | iP    | 50·6D    | i    | 17 35      |  | 4800 | 43·2 |
| Goteborg         | iP    | 52C      |      |            |  | 4840 | 43·6 |
| Raciborz         | e(PP) | 55       | e    | 10 06      |  | 4410 | 39·7 |
| Moxa             | iP    | 55C      | i    | 08 42·5    |  | 4865 | 43·8 |
| Skalstugan       | iP    | 56·5     |      |            |  | 4900 | 44·1 |
| Lillehammer      | iP    | 58·8     |      |            |  | 4935 | 44·4 |
| Yakoutsk         | iP    | 59C      | S    | 14 17      |  | 4935 | 44·4 |
| Furstenfeldbruck | eP    | 59       |      |            |  | 4920 | 44·3 |
| Erlangen         | eipP  | 59·1C    | ePP  | 08 46·6    |  | 4910 | 44·2 |
| Kheis            | eP    | 08 02    |      |            |  | 4965 | 44·7 |
| Kongsberg        | iP    | 03       |      |            |  | 4990 | 44·9 |
| Tiksi            | iP    | 12C      |      |            |  | 5125 | 46·1 |
| Strasbourg       | eP    | 13       | iPP  | 09 04·5    |  | 5175 | 46·6 |
| Karlsruhe        | iP    | 13·6C    | SP   | 02·1       |  | 5120 | 46·1 |
| Buhlerhohe       | iP    | 14·3     |      |            |  | 5140 | 46·3 |
| Bensberg         | iP    | 17·3     | e    | 17·4       |  | 5180 | 46·3 |
| Welschbruch      | eipP  | 48·6     | eipP | 07·5       |  |      |      |
| Vladivostok      | P     | 19C      |      |            |  | 5205 | 46·9 |
| Champ du Feu     | eipP  | 20·2     |      |            |  | 5215 | 46·9 |
| Haudompre        | eipP  | 24·5     |      |            |  | 5290 | 47·6 |
| Luxembourg       | P     | 25       | e    | 13         |  | 5260 | 47·5 |
| Lanslevillard    | eipP  | 25·2     | eipP | 13·5       |  | 5310 | 47·8 |
| Roselend         | eipP  | 26·5     | ePP  | 13         |  | 5320 | 47·9 |
| Isola            | iP    | 27·4     |      |            |  | 5320 | 47·9 |
| St Paul en Foret | eipP  | 29·9     |      |            |  | 5370 | 48·3 |
| La Mourre        | eipP  | 31·5     |      |            |  | 5390 | 48·5 |
| Lorgues          | eipP  | 31·9     |      |            |  | 5400 | 48·6 |
| Monteynard       | eP    | 32       |      |            |  | 5410 | 48·7 |

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|                 |      |       |                   |      |       |      |      |      |
|-----------------|------|-------|-------------------|------|-------|------|------|------|
| Kingsbay        | 1P   | 05 08 | 33°5              |      |       | 5410 | 48°7 |      |
| Baguio          | eP   |       | 33°5              |      |       | 5390 | 48°5 |      |
| Les Buteaux     | eiP  |       | 37°5              |      |       | 5490 | 49°4 |      |
| Sommée Lormes   | eP   |       | 37°6              |      |       | 5490 | 49°4 |      |
| St. Saulge      | eP   |       | 39°9              |      |       | 5520 | 49°7 |      |
| Garchy          | 1P   |       | 41°9 <sup>C</sup> | i    | 05 09 | 28°6 | 5545 | 49°9 |
| Shiraki         | P    |       | 43°2              |      |       | 5555 | 50°0 |      |
| Toulx Ste Croix | eiP  |       | 48°3              |      |       | 5640 | 50°7 |      |
| Monaco          | e    |       | 52°5              | i    |       | 14°7 | 5310 | 47°8 |
| Abuyama         | eP   |       | 54°2              |      |       | 5780 | 52°0 |      |
| St. Sauveur     | eP   |       | 55°2              |      |       | 5745 | 51°7 |      |
| Folinière       | eP   |       | 56°2              |      |       | 5765 | 51°9 |      |
| Wakaura W.      | eP   |       | 58°4              |      |       | 5780 | 52°0 |      |
| Gorron          | eP   |       | 59                |      |       | 5800 | 52°2 |      |
| Oishiyama       | eP   |       | 59°1              |      |       | 5800 | 52°2 |      |
| Le Pertre       | eiP  | 09    | 00°4              |      |       | 5825 | 52°4 |      |
| Bagnères        | eP   |       | 03                |      |       | 5895 | 53°1 |      |
| Matsushiro      | 1P   |       | 08                |      |       | 5940 | 53°1 |      |
| Station Nord    | 1P   |       | 11°3 <sup>C</sup> |      |       | 5990 | 53°9 |      |
| Dodaira         | 1P   |       | 15                |      |       | 6045 | 54°4 |      |
| Butare          | 1P   |       | 16°5              | i    | 05 10 | 01°5 | 6020 | 54°2 |
| Magadan         | 1P   |       | 18°C              |      |       | 6095 | 54°8 |      |
| Mt. Tsukuba     | 1P   |       | 18°9              |      |       | 6110 | 55°0 |      |
| Kap Tobin       | 1P   |       | 34°4 <sup>C</sup> |      |       | 6345 | 57°1 |      |
| Akureyri        | 1P   |       | 34°5              | i    |       | 44°3 | 6320 | 56°9 |
| Bangui          | 1P   |       | 34°6 <sup>D</sup> | 1S   | 17    | 12°6 | 6350 | 57°2 |
| Toledo          | 1P   |       | 34°6              | 1S   |       | 13   | 6345 | 56°1 |
| Almería         | 1P   |       | 35                | ePcP | 10    | 31°5 | 6345 | 57°1 |
| Tamanrasset     | 1P   |       | 35°C              | i    |       | 23   | 6345 | 57°1 |
| Sida            | 1P   |       | 39                |      |       |      | 6390 | 57°5 |
| Roma            | ePcP |       | 43°2              | eS   | 14    | 24°2 | 4950 | 44°5 |
| Alert           | 1P   |       | 48°5 <sup>C</sup> |      |       |      | 6580 | 59°2 |
| Tortosa         | 1(P) |       | 53                |      |       |      | 5945 | 53°5 |
| Ifrane          | 1P   |       | 58°3              |      |       |      | 6720 | 60°5 |
| Rabat           | eP   | 10    | 03                | e    | 10    | 53   | 6835 | 61°5 |
| Averroes        | eiP  |       | 09                |      |       |      | 6920 | 62°3 |
| Chileka         | eP   |       | 19                | esP  | 11    | 06   | 6845 | 61°6 |
| Broken Hill     | eP   |       | 23                | esP  |       | 10   | 7135 | 64°3 |
| Karoi           | eP   |       | 31                | 1sP  |       | 20   | 7265 | 65°4 |
| Godhavn         | 1P   |       | 39°8 <sup>C</sup> |      |       |      | 7445 | 67°0 |
| Eulawayo        | 1P   |       | 51°C              | 1sP  |       | 40   | 7635 | 68°7 |
| Resolute        | 1P   |       | 51°2 <sup>C</sup> |      |       |      | 7645 | 68°8 |
| Changalane      | eP   | 11    | 12                | e    | 12    | 02   | 7990 | 71°9 |
| Tanana          | 1P   |       | 20°3              |      |       |      | 8165 | 73°5 |
| Sada Bandeira   | 1P   |       | 23°9              |      |       |      | 8220 | 74°0 |
| Lamto           | P    |       | 25°5              |      |       |      | 8290 | 74°6 |
| Pedro Dome      | 1P   |       | 26°6              |      |       |      | 8300 | 74°7 |
| College         | 1P   |       | 26°6              |      |       |      | 8310 | 74°8 |
| Gilmore Creek   | eP   |       | 26°8              |      |       |      | 8310 | 74°8 |
| Frobisher       | 1P   |       | 27°7 <sup>C</sup> |      |       |      | 8345 | 75°1 |
| Sparrevohn      | 1P   |       | 33°8              |      |       |      | 8335 | 75°9 |
| Kimberley       | 1(P) |       | 35                |      |       |      | 8635 | 77°6 |
| Black Rapids    | 1P   |       | 35                |      |       |      | 8490 | 76°4 |

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|                 |       |                   |       |          |             |
|-----------------|-------|-------------------|-------|----------|-------------|
| Palmer          | eP    | 05 11 40°2        |       | 8590     | 77°3        |
| Meekatharra     | 1P    | 41°5 <sup>C</sup> |       | 8590     | 77°3        |
| Big Mountain    | 1P    | 41°8              |       | 8600     | 77°4        |
| Mts Sheep Creek | 1P    | 42                |       | 8610     | 77°5        |
| M' Bour         | 1P    | 54                | 1pP   | 05 12 45 | 8840 79°5   |
| Mundaring       | 1P    | 56°9 <sup>C</sup> |       | 8920     | 80°3        |
| Warramunga      | eP    | 12 07°5           | e     | 13 02    | 9145 82°3   |
| Sitka           | eP    | 19                |       |          | 9390 84°5   |
| Port Moresby    | eP    | 22                |       |          | 9445 85°0   |
| Edmonton        | 1P    | 49°2 <sup>C</sup> |       |          | 10090 90°8  |
| Charters Towers | 1P    | 49°5 <sup>C</sup> | 1     | 43       | 10100 90°9  |
| Nordman         | eP    | 13 09             | e     | 14 02    | 10580 95°2  |
| Hungry Horse    | eP    | 10°6              |       |          | 10620 95°6  |
| Newport         | 1P    | 11°1              | e     | 04       | 10610 95°5  |
| Butte           | eP    | 22°3              | e     | 14°8     | 10890 98°0  |
| Blue M.         | eP    | 25°2              |       |          | 10990 98°9  |
| Brisbane        | eP    | 30                |       |          | 11120 100°1 |
| Uinta Basin     | eP    | 47°8              | ePP   | 17 57°3  | 11520 103°7 |
| Cumberland Pl.  | eP    | 52°7              |       |          | 11665 105°0 |
| Eureka          | eP    | 54°5              |       |          | 11590 104°3 |
| Longmire        | e(PP) | 14 08             |       |          | 10735 96°6  |
| Wichita M.      | eP    | 08°7              | ePP   | 18 32°9  | 12065 108°6 |
| Albuquerque     | eP    | 14°5              |       |          | 12110 109°0 |
| Tonto Forest    | eP    | 20°7              | ePP   | 52°9     | 12190 109°7 |
| Mineral         | PP    | 55°8 <sup>D</sup> |       |          | 11435 105°4 |
| Boulder City    | PKP   | 18 10°1           |       |          | 11990 107°9 |
| Priest          | PKP   | 12 <sup>C</sup>   |       |          | 11910 107°2 |
| Tucson          | PKP   | 19°5              | e     | 19 04    | 12410 111°7 |
| Pasadena        | PKP   | 23                |       |          | 12155 109°4 |
| Byrd            | PKP   | 55°3              | 1     | 22 17°3  | 15110 136°0 |
| Huancayo        | PKP   | 19 09°2           |       |          | 15645 140°8 |
| Arequipa        | PKP   | 10°9              |       |          | 15655 140°9 |
| La Paz          | PKP   | 11°7              | 1pPKP | 20 06    | 15370 138°3 |
| Penas           | PKP   | 11°9              | 1pPKP | 06°5     | 15390 138°5 |
| Antofagasta     | ePKP  | 18°6 <sup>C</sup> | e     | 19 24°9  | 16005 144°1 |
| Peldehue        | ePKP  | 27°5              |       |          | 16445 148°0 |
| Vista Hermosa   | 1PP   | 20 39             |       |          | 13940 125,4 |

inscrit à Rybnick - l'Aquila - Pietermaritzburg - Praha - Trivandrum -  
Clermont.

VIII.- 29 Janvier

Ilot Mathew.

22°6 S ; 170°6 E ;

H = 05<sup>h</sup>.47<sup>mn</sup>44<sup>sn</sup>; M. = 3.6(Nouméa)

|           |    |                         |    |            |
|-----------|----|-------------------------|----|------------|
| Ouanaham  | 1P | 05 48 41°2 <sup>C</sup> | 1S | 05 50 25°5 |
| Nouméa    | 1P | 44°6 <sup>C</sup>       | 1S | 49 32      |
| Port Vila | 1P | 49 05°9(C)              | 1S | 50 09      |

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Région de l'île Bouvet

54°6 S ; 1°3 E ; h = 33km ; H = 08h.52<sup>mn</sup>56.9s. (CGS)

M. = 5.3 (CGS - La Paz - Penas)

|               |     |                    |     |            |       |       |
|---------------|-----|--------------------|-----|------------|-------|-------|
| Bulawayo      | eP  | 09 00 31           |     |            | 4465  | 40.2  |
| Sada Bandeira | eP  | 36.7               |     |            | 4520  | 40.7  |
| Eyrd          | eP  | 40.8               | e   | 09 28 13.3 | 4610  | 41.5  |
| Karoi         | eP  | 58                 |     |            | 4845  | 43.6  |
| Broken Hill   | iP  | 01 14 <sup>C</sup> |     |            | 5035  | 45.3  |
| Chileka       | eP  | 37                 |     |            | 5200  | 46.8  |
| Bangui        | eP  | 03 05              | 1PP | 05 22.5    |       |       |
| La Paz        | P   | 34.8               |     |            | 8200  | 64.8  |
| Penas         | P   | 37.2               |     |            | 7245  | 65.2  |
| Tonto Forest  | PKP | 12 04.3            |     |            | 14435 | 129.9 |
| Uinta Basin   | PKP | 09.9               |     |            | 14790 | 133.1 |
| Blue M.       | PKP | 23.1               |     |            | 15590 | 140.3 |
| Resolute      | PKP | 24.5               |     |            | 15910 | 143.2 |
| Matsushiro    | PKP | 33                 |     |            |       |       |
| Dodaira       | PKP | 34.2               |     |            | 16190 | 145.7 |
| Mt. Tsukuba   | PKP | 35.2               |     |            | 16255 | 146.3 |

X.- 29 Janvier

Nouvelles Hébrides (Ile Espiritu Santo)

H = 08h.56<sup>mn</sup>44s.; M. = 4.0 (Nouméa)

|            |     |                   |    |            |  |  |
|------------|-----|-------------------|----|------------|--|--|
| Luganville | iP  | 08 57 02.5(D)     | 1S | 08 57 17.5 |  |  |
| Port Vila  | eIP | 27                | 1S | 58 02      |  |  |
| Ouanaham   | eIP | 58 08.5           | 1S | 59 13.5    |  |  |
| Nouméa     | iP  | 30.5 <sup>C</sup> | 1S | 51         |  |  |

XI.- 29 Janvier

Nouvelles Hébrides (Ile Tanna)

19°6 S ; 170°6 E ; H = 08h.59<sup>mn</sup>27s. (Nouméa)

|           |     |                   |    |          |  |  |
|-----------|-----|-------------------|----|----------|--|--|
| Port Vila | eIP | 09 00 10.5        | 1S | 09 00 44 |  |  |
| Ouanaham  | iP  | 18.1 <sup>C</sup> | 1S | 56.5     |  |  |
| Nouméa    | iP  | 37.8 <sup>D</sup> | 1S | 01 31    |  |  |

XII.- 29 Janvier

A l'Est de l'île de Paques.

24°0 S ; 115°7 W ; h = 33km ; H = 09h.16<sup>mn</sup>31s. (CGS)

M. = 5.8 (Rabaul) ; 5.3 (Penas - La Paz) ; 5.0 (CGS) ; 4.9 (Tonto Forest - Eureka - Uinta Basin) ; 4.6 (Wichita M.) ; 4.2 (Golden).

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|                   |      |                   |      |          |       |      |
|-------------------|------|-------------------|------|----------|-------|------|
| Huancayo          | eP   | 09 23 59          |      |          | 4445  | 40'0 |
| Antofagasta       | eP   | 24 18             | eS   | 09 30 34 |       |      |
| Arequipa          | 1P   | 20·1              |      |          | 4665  | 42'0 |
| Quito             | eP   | 24                | S    | 31 00    |       |      |
| Penas             | P    | 44·2 <sup>C</sup> | eS   | 32·5     | 4980  | 44'8 |
| La Paz            | P    | 45·5              | S    | 33       | 5010  | 45'1 |
| Vista Hermosa     | 1P   | 47                |      |          |       |      |
| Tacubaya          | eP   | 55                |      |          | 5110  | 46'0 |
| Nat. Univ. Mexico | eP   | 55                | i    | 39 41    | 5100  | 45'9 |
| Cochabamba        | P    | 57·9              |      |          |       |      |
| La Palma          | eP   | 25 00·7           |      |          | 5110  | 46'0 |
| Bogota            | eP   | 23·5              | eS   | 32 41    | 5500  | 49'7 |
| Tucson            | eP   | 26 09·7           | eS   | 34 06    | 6245  | 56'2 |
| Pasadena          | eP   | 21                | eS   | 24       | 6435  | 57'9 |
| Tonto Forest      | eP   | 24                | ePS  | 37       | 6455  | 58'1 |
| Karapiro          | eP   | 25                |      |          |       |      |
| Lubbock           | eP   | 27                | e    | 26 33    | 6520  | 58'7 |
| Albuquerque       | eP   | 30·5              |      |          | 6580  | 59'2 |
| Priest            | eP   | 37 <sup>C</sup>   |      |          | 6665  | 60'0 |
| Wichita M.        | eP   | 39                | eS   | 35 00    | 6735  | 60'6 |
| Boulder City      | eP   | 42·6              |      |          | 6620  | 59'6 |
| Glen Canyon       | eP   | 42·7              |      |          | 6745  | 60'7 |
| Mt. Hamilton      | eP   | 44·2 <sup>C</sup> |      |          | 6810  | 61'3 |
| Jamestown         | eP   | 48·5 <sup>C</sup> |      |          | 6865  | 61'8 |
| Eureka            | 1P   | 57·2              |      |          | 7010  | 63'1 |
| Cumberland Pl.    | e(P) | 27 02·1           |      |          | 7300  | 65'7 |
| Golden            | eP   | 03·5              | eS   | 47       | 7120  | 64'1 |
| Uinta Basin       | eP   | 04·3              | ePS  | 52       | 7135  | 64'2 |
| Salt Lake City    | eP   | 06·1              |      |          | 7165  | 64'5 |
| Flaming Gorge     | eP   | 08·8              |      |          | 7200  | 64'8 |
| Lawrence          | eP   | 12                |      |          | 7230  | 65'5 |
| Manhattan         | eP   | 12                |      |          | 7255  | 65'3 |
| Bozeman SSS       | eP   | 37·8              |      |          | 7700  | 69'3 |
| Butte             | eP   | 38·5              | e    | 27 44·8  | 7745  | 69'7 |
| Hungry Horse      | eP   | 51                |      |          | 8000  | 72'0 |
| Morgantown        | eP   | 51                |      |          | 7945  | 71'5 |
| Newport           | eP   | 52                |      |          | 7990  | 71'9 |
| Nordman           | eP   | 54                |      |          | 8035  | 72'3 |
| Edmonton          | eP   | 28 20             |      |          | 8545  | 76'9 |
| Moorlands         | 1P   | 34·4 <sup>C</sup> |      |          | 8800  | 79'2 |
| Brisbane          | eP   | 36                | e    | 38 15    | 8955  | 80'6 |
| Tarraleah         | eP   | 37                |      |          | 8865  | 79'8 |
| Canberra          | eP   | 42                | eS   | 41       | 8955  | 80'6 |
| Toolangi          | eP   | 51                | e    | 28 58    | 9145  | 82'3 |
| Palmer            | eP   | 29 25·1           |      |          | 9935  | 89'4 |
| Charters Towers   | 1P   | 25·2              | 1SKS | 40 12    | 9890  | 89'0 |
| Rabaul            | eP   | 27 <sup>D</sup>   |      |          | 10035 | 90'3 |
| Sparrevohn        | eP   | 35                |      |          | 10080 | 90'7 |
| Gilmore Creek     | eP   | 36·9              |      |          | 10220 | 92'0 |
| College           | eP   | 37·5              |      |          | 10220 | 92'0 |
| Pedro Dome        | eP   | 42                |      |          | 10235 | 92'1 |
| Afiamalau         | eS   | 33 24             |      |          |       |      |

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|            |                   |            |                    |            |
|------------|-------------------|------------|--------------------|------------|
| Bangui     | 1PKP <sup>1</sup> | 09 35 39.5 | 1pPKP <sup>1</sup> | 09 35 47.5 |
| Niedzica   | ePKP              | 57         |                    |            |
| Chittagong | ePKP              | 36 20      |                    |            |
| Quetta     | ePKP              | 36.9D      |                    |            |

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Région de la Nouvelle Irlande.

5°6 S ; 153°9 E ; h = 70km ; H = 10<sup>h</sup>.13<sup>mm</sup>16.5S. (CGS)

M. = 6.4(Ba guig); 6.1(Honiara); 5.8(New Dehli); 5.6(Mundaring);  
 5.5(College); 5.4(Wichita M.); 5.3(CGS); 5.2(Palmer - Eureka);  
 5.1(Gilmore Creek); 5.0(Uinta Basin); 4.8(Blue M.);  
 4.4(Tonto Forest)

|                 |    |                       |      |          |      |      |
|-----------------|----|-----------------------|------|----------|------|------|
| Rabalanakaia    | 1P | 10 13 52 <sup>D</sup> |      |          | 245  | 2'2  |
| Keravat         | 1P | 52 <sup>C</sup>       |      |          | 245  | 2'2  |
| Wanliss Street  | 1P | 52.1 <sup>D</sup>     |      |          | 245  | 2'2  |
| Rabaul          | 1P | 52.2 <sup>C</sup>     | 1(S) | 10 14 18 | 245  | 2'2  |
| Esa'Ala         | 1P | 14 30.2               | 1S   | 15 25.4  |      |      |
| Honiara         | 1P | 15 03                 | 1S   | 16 28    | 790  | 7'1  |
| Port Moresby    | 1P | 04.9                  |      |          | 845  | 7'6  |
| Charters Towers | 1P | 17 00                 | 1S   | 19 53    | 1800 | 16'2 |
| Luganville      | 1P | 02.2 <sup>C</sup>     |      |          | 1810 | 16'3 |
| Port Vila       | 1P | 28.5 <sup>C</sup>     |      |          | 2055 | 18'5 |
| Ouanaham        | 1P | 43.6 <sup>C</sup>     |      |          | 2210 | 19'9 |
| Nouméa          | 1P | 50.5 <sup>C</sup>     |      |          | 2290 | 20'6 |
| Guam            | eP | 56.5                  |      |          | 2335 | 21'0 |
| Brisbane        | eP | 18 03                 | 1S   | 21 59    | 2410 | 21'7 |
| Warramunga      | e  | 53                    |      |          | 2635 | 23'7 |
| Riverview       | eP | 19 05                 | eS   | 23 49    | 3135 | 28'2 |
| Canberra        | eP | 20                    | eS   | 24 10    | 3320 | 29'9 |
| Toolangi        | eP | 44                    | e    | 22 29    | 3635 | 32'7 |
| Adélaïde        | eP | 45                    |      |          | 3600 | 32'4 |
| Afiamalū        | eP | 20 01                 |      |          | 3665 | 34'8 |
| Savannah        | 1P | 17.9 <sup>D</sup>     | i    | 40.4     | 4045 | 36'4 |
| Onerahi         | eP | 20                    |      |          |      |      |
| Moorlands       | 1P | 23.1 <sup>D</sup>     |      |          | 4120 | 37'1 |
| Tarraleah       | 1P | 26.9 <sup>D</sup>     | i    | 42.4     | 4120 | 37'1 |
| Tasmanian Univ. | 1P | 27.1                  | e    | 26 12    | 4180 | 37'6 |
| Karapiro        | 1P | 28 <sup>D</sup>       |      |          |      |      |
| Kalgoorlie      | 1P | 39.9                  |      |          | 4380 | 39'4 |
| Gisborne        | 1P | 42                    |      |          |      |      |
| Meekatharra     | 1P | 42.5                  |      |          |      |      |
| Ba guio         | 1P | 43                    |      |          | 4400 | 39'6 |
| Mundaring       | 1P | 21 17                 |      |          | 4880 | 43'9 |
| Shiraki         | eP | 23.8                  |      |          | 4965 | 44'7 |
| Séoul           | eP | 59.3                  |      |          | 5535 | 49'6 |
| Terre Adélie    | 1P | 23 29.4               |      |          | 6855 | 61'7 |
| Adak            | 1P | 35.6                  | i    | 23 53.7  | 6955 | 62'6 |
| Chittagong      | 1P | 24 04 <sup>C</sup>    |      |          |      |      |



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|                   |                   |       |                   |     |       |      |       |       |
|-------------------|-------------------|-------|-------------------|-----|-------|------|-------|-------|
| Shillong          | 1P                | 10 24 | 09·5              |     |       |      | 7520  | 67'7  |
| Vishakhapatnam    | eP                |       | 40                | e   | 10 28 | 58   |       |       |
| Mirny             | 1P                |       | 44                |     |       |      | 8165  | 73'5  |
| Anpu              | P                 |       | 50                |     | 29    | 51·5 |       |       |
| Oulan _ Bator     | 1P                |       | 54                | i   |       | 35   |       |       |
| Madras            | eP                | 25    | 00                |     |       |      |       |       |
| Taipei            | P                 |       | 00·9              |     |       | 49·8 |       |       |
| Kodiak            | eP                |       | 00·9              | e   | 26    | 34·7 | 8500  | 76'5  |
| Ilan              | P                 |       | 03                |     | 28    | 25·4 |       |       |
| Hwallien          | P                 |       | 04·8              |     | 29    | 51·8 |       |       |
| Sparrevoohn       | 1P                |       | 05·5              | i   | 25    | 24·4 | 8580  | 77'2  |
| Hsinkong          | P                 |       | 06·5              |     |       |      |       |       |
| Tawu              | eP                |       | 10·6              |     |       |      |       |       |
| Taitung           | eP                |       | 11                |     | 30    | 21·5 |       |       |
| Palmer            | eP                |       | 18·8              | e   |       | 37·7 | 8890  | 80'0  |
| Hengchun          | P                 |       | 20·6              |     |       |      |       |       |
| Mts Sheep Creek   | 1P                |       | 24·1              | i   |       | 43·8 | 8990  | 80'9  |
| Tanana            | 1P                |       | 25·2              | i   |       | 45·3 | 9000  | 81'0  |
| New Dehli         | 1P                |       | 26                |     |       |      | 9010  | 81'1  |
| Tainan            | eP                |       | 27                |     |       | 05   |       |       |
| Taichung          | eP                |       | 29·9              |     |       | 29·5 |       |       |
| College           | 1P                |       | 30                |     |       |      | 9145  | 81'5  |
| Gilmore Creek     | eP                |       | 30·6              | e   | 25    | 50·7 | 9155  | 82'4  |
| Pedro Dome        | 1P                |       | 31·1              | i   |       | 50·6 | 9155  | 82'4  |
| Black Rapids      | 1P                |       | 31·7              |     |       |      | 9145  | 82'3  |
| <del>Elktra</del> | e                 |       | 33                |     |       |      |       |       |
| Barrow            | 1P                |       | 36·7 <sup>C</sup> |     |       |      | 9255  | 83'3  |
| Eyrd              | 1P                |       | 41·3              | i   | 38    | 18·9 | 9320  | 83'9  |
| Quetta            | 1P                | 26    | 12 <sup>C</sup>   |     |       |      | 10019 | 90'1  |
| Priest            | e(P)              |       | 16 <sup>C</sup>   |     |       |      | 9955  | 89'6  |
| Pasadena          | eP                |       | 17                | e   | 26    | 32   | 10155 | 91'4  |
| Blue M.           | eP                |       | 23·5              |     |       |      | 10345 | 93'1  |
| Newport           | eP                |       | 25                |     |       |      | 10390 | 93'5  |
| Nordman           | eP                |       | 26                |     |       |      | 10400 | 93'6  |
| Eureka            | 1P                |       | 27·2              | i   | 30    | 07·2 | 10410 | 93'7  |
| Jamestown         | e                 |       | 29·8 <sup>D</sup> |     |       |      | 10000 | 90'0  |
| Edmonton          | eP                |       | 37                |     |       |      | 10680 | 96'1  |
| Boulder City      | e(P)              |       | 42·8              | e   | 26    | 57·8 | 10480 | 94'3  |
| Tonto Forest      | eP                |       | 44                |     |       |      | 10800 | 97'2  |
| Tucson            | eP                |       | 46                |     |       |      | 10835 | 97'5  |
| Uinta Basin       | eP                |       | 49                | epP | 27    | 07·7 | 10955 | 98'6  |
| Albuquerque       | eP                | 27    | 01                |     |       |      | 11235 | 101'1 |
| Chiraz            | 1P                |       | 06·9              |     |       |      | 11365 | 102'3 |
| Wichita M.        | eP                |       | 26·2              | epP |       | 55·0 | 11955 | 107'6 |
| Nairobi           | PKP               | 31    | 56·2              | i   | 37    | 32   | 12880 | 116'8 |
| Bulawayo          | PKP               | 32    | 02                |     |       |      | 13380 | 120'4 |
| Karoi             | PKP               |       | 03                |     |       |      | 13390 | 120'5 |
| Chileka           | (PKP)             |       | 06                | e   | 34    | 11   | 12880 | 115'9 |
| Broken Hill       | PKP               |       | 07                |     |       |      | 13590 | 122'3 |
| Butare            | 1PKP              |       | 10·6              | ePP | 33    | 52   |       |       |
| Bangui            | 1PKP <sub>1</sub> |       | 14·5              | i   | 35    | 08·5 |       |       |
| La Paz            | ePKP              |       | 19                | PKS |       | 54   | 14780 | 133'0 |
| Penas             | ePKP              |       | 20·5              | PKS |       | 53   | 14755 | 132'8 |

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|               |      |          |   |            |       |       |  |
|---------------|------|----------|---|------------|-------|-------|--|
| Windhoek      | iPKP | 10 32 21 |   |            |       |       |  |
| Sada Bandeira | PKP  | 22.6     | 1 | 10 38 14.5 | 15080 | 135.7 |  |
| Cochabamba    | ePKP | 30.2     |   |            |       |       |  |
| Trinidad      | PKP  | 44.4     |   |            | 16080 | 144.7 |  |
| Tamanrasset   | PKP  | 48       | 1 | 32 58      | 16110 | 145.0 |  |
| Moca          | PKP  | 49.1     |   |            | 16135 | 145.2 |  |
| Lamto         | PKP  | 33 09.8  |   |            | 17665 | 159.0 |  |

inscrit à Toledo - Columbia.

XIV. 29 Janvier

Iles Kouriles.

43°6 N ; 146°7 E ; h = 40km ; H = 10h. 19mn 05.6s. (CGS)  
 43°8 N ; 146°5 E ; h = 75km ; H = 10h. 19mn 06s. (URSS)  
 43°11'N ; 147°30'E ; h = 30km ; H = 10h. 19mn 02.4s. (JMA)

Tsunami sur les cotes de Hokkaido, max. 26 cm à Nemuro.

M. = 7.8 (Berkeley); 7.6 (Strasbourg); 7.5 (URSS - De Bilt); 7.4 (Moxa);  
 7.3 (Uppsala - Kiruna - Lvov - Roma); 7.1 - 7.4 (Praha); 7.0 - 7 1/4  
 (Palisades); 7.0 (Padadena - København - Collm); 6.8 (Edmonton - Weston -  
 Addis - Ababa); 6.7 (Poona - Godhavn - Georgetown); 6.6 (Riverview -  
 Bensberg - College); 6.5 (Baguio); 6.4 (Gilmore Creek - Blue M. - Nur-  
 mijaerwi - Cumberland Pl); 6.3 (MB CGS - Port Moresby);  
 6.2 (Wichita M. - Bozeman SSS); 6.1 (Resolute); 6.0 (Tonto Forest -  
 Rabaul - Longmire); 5.9 (Shiraki - Palmer - Alert - Kevo - Uinta Basin -  
 Golden - Tucson - Mundaring); 5.7 (Station Nord); 5.6 (Albuquerque);  
 5.5 (New Dehli); 5.3 (Kipapa).

|                   |     |                      |    |            |      |      |
|-------------------|-----|----------------------|----|------------|------|------|
| Nemuro            | iP  | 10 19 21.8           | 1S | 10 19 33.6 | 95   | 0.9  |
| Kourilsk          | iP  | 37 <sup>D</sup>      | 1S | 20 01      | 205  | 1.8  |
| Sapporo           | iP  | 20 07.8 <sup>D</sup> | eS | 54         | 440  | 4.0  |
| Youjno_Sakhalinsk | iP  | 14 <sup>D</sup>      |    |            | 490  | 4.4  |
| Mizusawa          | eP  | 34.3                 | eS | 21 42.1    | 680  | 6.1  |
| Mt. Tsukuba       | iP  | 21 09.9              |    |            | 1000 | 9.0  |
| Dodaira           | ePn | 14.4                 |    |            | 1055 | 9.5  |
| Maebashi          | P   | 16.7                 | e  | 48.6       | 1030 | 9.3  |
| Matsushiro        | iP  | 20.7                 | S  | 23 09      | 1065 | 9.6  |
| Tokyo             | ePn | 21.9                 | eS | 31.3       | 1060 | 9.5  |
| Severo_Kourilsk   | eP  | 23.2                 | eS | 11.2       | 1060 | 9.5  |
| Yokohama          | iP  | 23.5                 | e  | 04.2       | 1090 | 9.8  |
| Ajiro             | eP  | 29.3                 | e  | 16.8       | 1150 | 10.4 |
| Vladivostok       | iP  | 42 <sup>C</sup>      | S  | 43         | 1200 | 10.8 |
| Gi fu             | eP  | 43.9                 |    |            | 1245 | 11.2 |
| Abuyama           | eP  | 57.5                 |    |            | 1365 | 12.3 |
| Osaka             | P   | 22 00.1              |    |            | 1380 | 12.4 |
| Oishiyama         | eP  | 05.8                 |    |            | 1445 | 13.0 |
| Petropavlovsk     | iP  | 06 <sup>D</sup>      |    |            | 1370 | 12.3 |
| Wakaura W         | eP  | 06.4                 |    |            | 1445 | 13.0 |

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|                     |    |       |        |      |       |      |      |       |
|---------------------|----|-------|--------|------|-------|------|------|-------|
| Shiraki             | P  | 10 2# | 22°9   |      |       |      | 1565 | 14' 1 |
| Muroto              | i  |       | 23°9   | e    | 10 24 | 46   | 1305 | 11' 7 |
| Kochi               | eP |       | 34°1   | eS   | 25    | 24°2 | 1595 | 14' 4 |
| Magadan             | iP |       | 51°C   |      |       |      | 1795 | 16' 2 |
| Nagasaki            | P  | 23    | 02     | S    | 26    | 24   | 1900 | 17' 1 |
| Yakoutsik           | iP |       | 43°C   |      |       |      | 2330 | 21' 0 |
| Bodajbo             | iP | 24    | 22°C   |      |       |      | 2750 | 24' 7 |
| Adak                | eP |       | 33°8   | i    | 24    | 46°2 | 2865 | 25' 8 |
| Anpu                | iP |       | 50     | S    | 29    | 51°5 | 3065 | 27' 6 |
| Tiksi               | iP | 25    | 02°C   |      |       |      | 3270 | 29' 4 |
| Irkoutsik           | P  |       | 04°C   |      |       |      | 3260 | 29' 4 |
| Guam                | eP |       | 10°8   | e    | 25    | 43   | 3335 | 30' 0 |
| Hong_Kong           | iP |       | 51°C   | eS   | 31    | 14   | 3600 | 34' 2 |
| Baguio              | iP |       | 55     |      |       |      | 3890 | 35' 0 |
| Manila              | iP | 26    | 19     | e    | 30    | 56   | 4020 | 36' 2 |
| Sparrevohn          | iP |       | 21°3   |      |       |      | 4210 | 37' 9 |
| Big Mountain        | iP |       | 22°5   |      |       |      | 4235 | 38' 1 |
| Barrow              | iP |       | 26°5   |      |       |      | 4310 | 38' 8 |
| Kodiak              | eP |       | 34°7°C |      |       |      | 4400 | 39' 6 |
| Tanana              | iP |       | 36°2   |      |       |      | 4410 | 39' 7 |
| Davao               | iP |       | 44°9   |      |       |      | 4535 | 40' 8 |
| Palmer              | eP |       | 45°5   | eS   | 32    | 48   | 4555 | 41' 0 |
| College             | iP |       | 49°3°C | i    | 27    | 03   | 4600 | 41' 4 |
| Gilmore Creek       | eP |       | 50     | eS   | 33    | 02   | 4610 | 41' 5 |
| Pedro Dome          | iP |       | 50°8   |      |       |      | 4610 | 41' 5 |
| Mts Sheep Creek     | iP |       | 53     |      |       |      | 4645 | 41' 8 |
| Black Rapids        | iP |       | 57°2   |      |       |      | 4700 | 42' 3 |
| Sempalatinsk        | iP | 27    | 13°3   |      |       |      | 4940 | 44' 5 |
| Kheis               | eP |       | 30     |      |       |      | 5235 | 47' 1 |
| Shillong            | iP |       | 39     |      |       |      | 5300 | 47' 7 |
| Rabaul              | iP |       | 42°2   | i(S) | 34    | 37   | 5320 | 47' 9 |
| Wanliss Street      | iP |       | 42°5   |      |       |      | 5315 | 47' 8 |
| Rabalanakala        | iP |       | 42°7   |      |       |      | 5315 | 47' 9 |
| Keravat             | iP |       | 43°5°D |      |       |      | 5330 | 48' 0 |
| Biorka              | eP |       | 48°5   |      |       |      | 5420 | 48' 8 |
| Sitka               | eP |       | 49°7   | eS   |       | 54   | 5420 | 48' 8 |
| Talgar              | iP |       | 51°C   | iS   |       | 54°D | 5440 | 48' 9 |
| Chittagong          | iP |       | 56     |      |       |      | 5520 | 49' 7 |
| Chatra              | iP | 28    | 02     | S    | 35    | 12   | 5600 | 50' 4 |
| Kipapa              | eP |       | 03     | eS   |       | 20   | 5620 | 50' 6 |
| Frounze             | iP |       | 06°C   | iS   |       | 16   | 5660 | 51' 0 |
| Calcutta            | iP |       | 16     | e    |       | 59   | 5785 | 52' 1 |
| Port Moresby        | iP |       | 18     |      |       |      | 5865 | 52' 8 |
| Alert               | eP |       | 18°2°C |      |       |      | 5920 | 53' 3 |
| Sverdlovsk          | iP |       | 19°C   | S    |       | 46   | 5895 | 53' 0 |
| Bokaro              | iP |       | 22     | i    |       | 44   | 5905 | 53' 2 |
| Hawai Volc. Observ. | eP |       | 27     | eS   | 36    | 01   | 5980 | 53' 8 |
| Esa Ala             | iP |       | 27°4   |      |       |      | 5910 | 53' 2 |
| Honiara             | eP |       | 28     |      |       |      | 6020 | 54' 2 |
| Station Nord        | iP |       | 29°2   |      |       |      | 6080 | 54' 7 |
| Kingsbay            | eP |       | 31     |      |       |      | 6100 | 54' 9 |

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|-----------------|----|-------|-------------------|------|-------|------|------|------|
| Res olute       | eP | 10 28 | 33.5              |      |       |      | 6135 | 55.2 |
| Dehra Dun       | 1P |       | 35                | 1    | 10 36 | 11   | 6110 | 55.0 |
| Tachkent        | 1P |       | 37 <sup>D</sup>   | 1S   |       |      | 6130 | 55.2 |
| Bhakra          | 1P |       | 39                | eS   |       | 15   | 6170 | 55.5 |
| Khorog          | 1P |       | 40 <sup>C</sup>   |      |       |      | 6180 | 55.6 |
| Port Blair      | 1P |       | 43                | 1    |       | 47   | 6240 | 56.2 |
| New Dehli       | 1P |       | 45.1              | 1S   |       | 41   | 6280 | 56.5 |
| Mangla          | 1P |       | 46.1 <sup>D</sup> |      |       |      | 6279 | 56.4 |
| Koulyab         | 1P |       | 47 <sup>C</sup>   | eS   |       | 32.3 | 6290 | 56.6 |
| Douchambé       | 1P |       | 49 <sup>C</sup>   |      |       |      | 6325 | 56.9 |
| Lahore          | P  |       | 49                | S    |       | 39   | 6325 | 56.9 |
| Warsak          | P  |       | 52                |      |       |      | 6390 | 57.5 |
| Samarkand       | 1P |       | 53.5 <sup>C</sup> |      |       |      | 6390 | 57.5 |
| Apatity         | 1P |       | 58 <sup>D</sup>   | 1S   |       | 57   | 6490 | 58.4 |
| Kevo            | 1P | 29    | 00                | eS   |       | 50   | 6520 | 58.7 |
| Sehore          | 1P |       | 09                | 1    | 37    | 38   | 6655 | 59.9 |
| Sodankylä       | eP |       | 11                |      |       |      | 6710 | 60.4 |
| Seattle         | 1P |       | 11.3              |      |       |      | 6680 | 60.1 |
| Tumwater        | 1P |       | 11.4 <sup>C</sup> |      |       |      | 6690 | 60.2 |
| Longmire        | 1P |       | 16.6 <sup>C</sup> |      |       |      | 6765 | 60.9 |
| Corvallis       | eP |       | 19.5              | eS   |       | 38   | 6810 | 61.3 |
| Edmonton        | eP |       | 20                |      |       |      | 6855 | 61.7 |
| Luganville      | 1P |       | 20.8 <sup>C</sup> |      |       |      | 6865 | 61.8 |
| Kiruna          | 1P |       | 21                |      |       |      | 6865 | 61.8 |
| Oulu            | eP |       | 23                |      |       |      | 6920 | 62.3 |
| Kajaani         | 1P |       | 24.7              | 1    | 35    | 19   | 6935 | 62.4 |
| Newport         | 1P |       | 27.1              |      |       |      | 6965 | 62.7 |
| Nordman         | 1P |       | 27.3              |      |       |      | 6955 | 62.6 |
| Arcata          | eP |       | 28.9 <sup>C</sup> |      |       |      | 6990 | 62.9 |
| Quetta          | 1P |       | 29.7              | eS   | 38    | 03.4 | 6890 | 62.9 |
| Charters Towers | 1P |       | 31                | 1S   |       | 00   | 7045 | 63.4 |
| Spokane         | 1P |       | 31.2              | eS   | 37    | 55.1 | 6990 | 62.9 |
| Warramunga      | eP |       | 36                | e    | 43    | 23   | 7135 | 64.2 |
| Hungry Horse    | 1P |       | 37                | eS   | 38    | 03.5 | 7145 | 64.3 |
| Vannovskaya     | P  |       | 38                |      |       |      | 7135 | 64.3 |
| Madras          | 1P |       | 38                | 1    | 21    |      | 7130 | 64.2 |
| Moskva          | 1P |       | 39                | 1S   | 11    |      | 7155 | 64.4 |
| Mashad          | 1P |       | 39 <sup>C</sup>   |      |       |      | 7135 | 64.2 |
| Poulkovo        | 1P |       | 40                | 1S   | 08    |      | 7175 | 64.6 |
| Port Vila       | 1P |       | 40 <sup>C</sup>   |      |       |      | 7135 | 64.2 |
| Uméa            | 1P |       | 40.1 <sup>C</sup> |      |       |      | 7210 | 64.9 |
| Blue M.         | eP |       | 40.8              |      |       |      | 7180 | 64.6 |
| Mineral         | P  |       | 40.9 <sup>C</sup> | 1    | 29    | 52   | 7195 | 64.7 |
| Poona           | 1P |       | 43 <sup>C</sup>   | e(S) | 38    | 50   | 7235 | 65.1 |
| Kizyl_Arvat     | 1P |       | 43 <sup>D</sup>   |      |       |      | 7180 | 64.6 |
| Ukiah           | eP |       | 44                | eS   | 20    |      | 7165 | 64.5 |
| Oroville        | 1P |       | 44.2              | eS   | 14    |      | 7255 | 65.3 |
| Bombay          | 1P |       | 47                |      |       |      | 7290 | 65.6 |
| Nurmijaerwi     | 1P |       | 48.1              |      |       |      | 7335 | 66.0 |
| Berkeley        | eP |       | 49.0 <sup>C</sup> | SP   | 30    | 01.5 | 7310 | 65.8 |
| Karachi         | 1P |       | 51.8 <sup>D</sup> |      |       |      | 7345 | 66.1 |
| Godhavn         | 1P |       | 51.9 <sup>C</sup> | 1S   | 38    | 34   | 7390 | 66.5 |

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|----------------------|------|-------|-------------------|--------|---------|------|------|------|
| Butte                | eP   | 10 29 | 52°2              | eS     | 10 38   | 39°8 | 7390 | 66°5 |
| Mt. Hamilton         | eP   |       | 53°6              | esp    | 30 06   |      | 7390 | 66°5 |
| Jamestown            | eP   |       | 54°1 <sup>C</sup> | esp    | 06      |      | 7435 | 66°9 |
| Skalstugan           | 1P   |       | 55°4              |        |         |      | 7470 | 67°2 |
| San Luis Dam         | 1P   |       | 56°5 <sup>C</sup> |        |         |      | 7445 | 67°0 |
| Holy Cross           | eP   |       | 57°3              |        |         |      | 7410 | 66°7 |
| Bozeman SSS          | 1P   |       | 57°5              | i      | 17      |      | 7480 | 67°3 |
| Ouanaham             | 1P   |       | 57°7 <sup>C</sup> |        |         |      | 7420 | 66°8 |
| Kodaikanal           | 1P   | 30    | 02                | i      | 39 08   |      | 7555 | 68°0 |
| Makhachkala          | eP   |       | 02                | eS     | 01      |      | 7510 | 67°6 |
| Priest               | eP   |       | 02°3 <sup>C</sup> | esp    | 30 13°5 |      | 7545 | 67°9 |
| Nouméa               | 1P   |       | 03 <sup>C</sup>   |        |         |      | 7565 | 68°1 |
| Stone Canyon Observ. | eP   |       | 03°3              |        |         |      | 7465 | 67°2 |
| Uppsala              | 1P   |       | 05°4              |        |         |      | 7635 | 68°7 |
| Afiyalu              | eP   |       | 06                | eS     | 39 00   |      | 7635 | 68°7 |
| Poti                 | eP   |       | 07                |        |         |      |      |      |
| Eureka               | 1P   |       | 07°2              |        |         |      | 7635 | 68°7 |
| Frobisher            | eP   |       | 09 <sup>C</sup>   |        |         |      | 7710 | 69°4 |
| Lillehammer          | 1P   |       | 11°8              |        |         |      | 7745 | 69°7 |
| Kirovabad            | P    |       | 13 <sup>C</sup>   |        |         |      | 7750 | 69°7 |
| Trivandrum           | eP   |       | 13                | e(S)   | 31      |      | 7725 | 69°5 |
| Téhéran              | 1P   |       | 13°5 <sup>C</sup> |        |         |      | 7755 | 69°8 |
| Tbilisi              | P    |       | 15                |        |         |      | 7770 | 69°9 |
| Salt Lake City       | eP   |       | 16°6              | eS     | 24°6    |      | 7810 | 70°3 |
| Akureyri             | 1P   |       | 18°3              |        |         |      | 7820 | 70°4 |
| Pasadena             | 1P   |       | 19                | 1S     | 29      |      | 7855 | 70°7 |
| Brisbane             | 1P   |       | 19°5              | i      | 38 39   |      | 7880 | 70°9 |
| Goris                | 1P   |       | 20 <sup>C</sup>   | 1S     | 39 31   |      | 7830 | 70°5 |
| Bakouriani           | eP   |       | 20°1              |        |         |      | 7845 | 70°6 |
| Kongsberg            | 1P   |       | 22                |        |         |      | 7910 | 71°2 |
| Flaming Gorge        | 1P   |       | 24 <sup>C</sup>   | FKPPKP | 58 00°5 |      | 7955 | 71°6 |
| Sotchi               | 1P   |       | 24                | eS     | 39 38   |      | 7940 | 71°5 |
| Tabriz               | 1P   |       | 25°3 <sup>C</sup> |        |         |      | 7935 | 71°4 |
| Bergen               | 1P   |       | 25°4              |        |         |      | 7955 | 71°6 |
| Uinta Basin          | 1P   |       | 25°7              | eS     | 44°1    |      | 7990 | 71°9 |
| Las Vegas            | eP   |       | 25                |        |         |      | 7935 | 71°4 |
| Göteborg             | 1P   |       | 27°2 <sup>C</sup> |        |         |      | 8025 | 72°2 |
| Karlskrona           | 1P   |       | 27°3              |        |         |      | 8045 | 72°4 |
| Reykjavick           | eP   |       | 29                | i      | 30 53°3 |      | 8020 | 72°2 |
| Sida                 | 1P   |       | 30°6              |        |         |      | 8030 | 72°3 |
| Chiraz               | 1P   |       | 32°2 <sup>C</sup> |        |         |      | 8080 | 72°7 |
| Glen Canyon          | 1P   |       | 32°5 <sup>C</sup> | FKPPKP | 58 06   |      | 8100 | 72°9 |
| Warsawa              | e1P  |       | 34                | i      | 40 21   |      | 8185 | 73°7 |
| Boulder City         | e(P) |       | 34°3              | eS     | 39 51°3 |      | 7955 | 71°6 |
| Simferopol           | 1P   |       | 35 <sup>C</sup>   | S      | 59      |      | 8155 | 73°4 |
| Köbenhavn            | P    |       | 36°4 <sup>C</sup> | 1S     | 40 03   |      | 8200 | 73°8 |
| Meekatharra          | 1P   |       | 40°2 <sup>C</sup> |        |         |      | 8275 | 74°5 |
| Flagstaff            | 1P   |       | 40°6              | 1S     | 18°8    |      | 8220 | 74°0 |
| Kichinev             | 1P   |       | 41°5              | 1S     | 13      |      | 8265 | 74°4 |
| Lvov                 | 1P   |       | 42                | 1S     | 11      |      | 8265 | 74°4 |
| Iasi                 | P    |       | 43                | S      | 16      |      | 8315 | 74°9 |
| Golden               | eP   |       | 43                | eS     | 18      |      | 8300 | 74°7 |

|                  |     |                   |       |            |      |      |
|------------------|-----|-------------------|-------|------------|------|------|
| Tonto Forest     | eP  | 10 30 45          | eS    | 10 40 21*6 | 8320 | 74*9 |
| Bacau            | P   | 47                | (S)   | 42         | 8400 | 75*6 |
| Krakow           | eP  | 49 <sup>C</sup>   | e     | 28         | 8425 | 75*8 |
| Oujgorod         | iP  | 50 <sup>C</sup>   | eS    | 28         | 8445 | 76*0 |
| Chorzow          | eIP | 51 <sup>C</sup>   |       |            | 8445 | 76*0 |
| Niedzica         | eP  | 52 <sup>C</sup>   |       |            | 8465 | 76*2 |
| Heligoland       | iP  | 53*1              | e     | 55*1       | 8495 | 76*4 |
| Tucson           | eP  | 53*8              | eS    | 38         | 8510 | 76*6 |
| Raciborz         | iP  | 54                | eS    | 33         | 8495 | 76*5 |
| Focsani          | P   | 55                |       | 41 12      | 8460 | 76*1 |
| Collm            | iP  | 56*3              | ePP   | 33 54      | 8590 | 77*3 |
| Kalgoorlie       | iP  | 57*1              |       |            | 8620 | 77*6 |
| Riverview        | iP  | 57*4              | isP   | 31 08      | 8580 | 77*2 |
| Albuquerque      | iP  | 58*5 <sup>C</sup> | e     | 14         | 8600 | 77*4 |
| Campulung        | P   | 59*2              | S     | 40 45      | 8605 | 77*5 |
| Bucuresti        | P   | 31 00             | S     | 50         | 8625 | 77*6 |
| Pruhonice        | iP  | 00*5 <sup>C</sup> | S     | 55         | 8645 | 77*8 |
| Praha            | iP  | 01                | eS    | 51         | 8645 | 77*8 |
| Moxa             | eP  | 02 <sup>C</sup>   | eS    | 52         | 8700 | 78*3 |
| Witeween         | iP  | 02*3              |       |            | 8665 | 78*0 |
| Durham           | iP  | 03                | is    | 53         | 8700 | 78*3 |
| Bratislava       | iP  | 03*7 <sup>D</sup> | ei(S) | 41 04*2    | 8715 | 78*4 |
| Canberra         | iP  | 04*9              | is    | 00         | 8735 | 78*6 |
| Srobarova        | eIP | 05                |       |            | 8695 | 78*3 |
| Adelaide         | eP  | 05                |       |            | 8735 | 78*6 |
| Wien             | eP  | 05 <sup>C</sup>   | is    | 40 45      | 8735 | 78*6 |
| Kasperské Hory   | iP  | 06 <sup>C</sup>   |       |            | 8765 | 78*9 |
| Istanbul UTI     | iP  | 06*7 <sup>C</sup> | eS    | 41 06      | 8755 | 78*8 |
| Istanbul Kand    | iP  | 06*8 <sup>C</sup> |       |            | 8745 | 78*7 |
| Timisoara        | eP  | 07                | eS    | 03         | 8750 | 78*7 |
| De Bilt          | iP  | 07*8              | is    | 03         | 8785 | 79*0 |
| Erlangen         | eP  | 08*5 <sup>C</sup> | ePS   | 42 00      | 8810 | 79*3 |
| Bensberg         | iP  | 09*5 <sup>C</sup> | ePP   | 33 05      | 8820 | 79*4 |
| Manhattan        | eP  | 10                |       |            | 8855 | 79*7 |
| Béograd          | iP  | 11*3 <sup>C</sup> | is    | 41 28*4    | 8865 | 79*8 |
| Zagreb           | eP  | 11*5 <sup>C</sup> | eS    | 17*9       | 8980 | 80*8 |
| Dubuque          | P   | 11*7              |       |            | 8890 | 80*0 |
| Tanus            | iP  | 12                |       |            | 8855 | 79*7 |
| Mundaring        | iP  | 12*5              |       |            | 8910 | 80*2 |
| Lawrence         | iP  | 14*5              |       |            | 8955 | 80*6 |
| Sofia            | iP  | 14*9              | eS    | 16*4       | 8915 | 80*2 |
| Uccle            | P   | 15                | S     | 14         | 8935 | 80*4 |
| Stuttgart        | iP  | 15*6              |       |            | 8965 | 80*7 |
| Fürstenfeldbruck | iP  | 16                |       |            | 8945 | 80*5 |
| Ksara            | iP  | 17                | is    | 33         | 8940 | 80*5 |
| Toolangi         | eP  | 17                | eSKS  | 23         | 8980 | 80*8 |
| Karlsruhe        | iP  | 17*4 <sup>C</sup> | eS    | 15         | 8980 | 80*8 |
| Lubbock          | eP  | 17*5              | eS    | 24         | 9000 | 81*0 |
| Ljubljana        | iP  | 18*5              | e     | 40(38)     | 9030 | 81*2 |
| Bühlerhohe       | iP  | 18*8              |       |            | 9015 | 81*1 |
| Luxembourg       | P   | 19                | S     | 41 25      | 8990 | 80*9 |

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| Trieste         | 1P   | 10 31 | 20 <sup>C</sup>   | 1S   | 10 41 29 | 9080 | 81'7 |
| Strasbourg      | 1P   |       | 20'4              |      |          | 9035 | 81'3 |
| Welschbruch     | eiP  |       | 20'4              | eS   | 41 31    | 9070 | 81'6 |
| Mestetten       | 1P   |       | 20'9              |      |          | 9035 | 81'3 |
| Paraskevi       | eiP  |       | 21                |      |          | 9080 | 81'5 |
| Skopje          | 1P   |       | 21'3              |      |          | 9075 | 81'7 |
| Feldberg        | 1P   |       | 22'4 <sup>C</sup> |      |          | 9100 | 81'9 |
| Wichita M.      | eP   |       | 22'6              | eS   | 32'1     | 9110 | 82'0 |
| Rarotonga       | eP   |       | 24                | eS   | 28       | 9010 | 81'1 |
| Basel           | P    |       | 24'5              |      |          | 9150 | 82'3 |
| Padova          | eiP  |       | 26 <sup>C</sup>   | eS   | 46       | 9190 | 82'7 |
| Jérusalem       | 1P   |       | 26'4              |      |          | 9145 | 82'3 |
| Tulsa           | 1P   |       | 26'5 <sup>C</sup> | 1S   | 38       | 9180 | 82'6 |
| Chihuahua       | eP   |       | 27                | 1S   | 40       | 9115 | 82'0 |
| Bologna         | eP   |       | 27 <sup>C</sup>   | e(S) | 57       | 9300 | 83'7 |
| Valentia        | 1P   |       | 27'2              | 1S   | 40       | 9190 | 82'7 |
| Rhodes          | eiP  |       | 28'5 <sup>D</sup> | eiS  | 44       | 9190 | 82'7 |
| Ann Arbor       | eP   |       | 29                |      |          | 9255 | 83'3 |
| Besançon        | eiP  |       | 29'3              | 1!   | 31 40'1  | 9235 | 83'1 |
| Ottawa          | eP   |       | 30'5              |      |          | 9300 | 83'7 |
| Sommée Lormes   | 1P   |       | 31'1              |      |          | 9300 | 83'7 |
| Folinigre       | 1P   |       | 31'2              |      |          | 9290 | 83'6 |
| St. Sauveur     | 1P   |       | 31'7              |      |          | 9290 | 83'6 |
| Athènes         | eP   |       | 31'8 <sup>C</sup> |      |          | 9300 | 83'7 |
| Pavia           | ei!P |       | 32 <sup>C</sup>   | 1S   | 41 42    | 9320 | 83'3 |
| Les Buteaux     | 1P   |       | 32'1              |      |          | 9330 | 84'0 |
| Garchy          | 1P   |       | 32'3 <sup>C</sup> | 1    | 33'3     | 9330 | 84'0 |
| St Saulge       | 1P   |       | 32'6              |      |          | 9335 | 84'0 |
| Vouglans        | eiP  |       | 33                | 1    | 32 02    | 9330 | 84'0 |
| Gorron          | 1P   |       | 33'7              |      |          | 9335 | 84'0 |
| L'Aquila        | 1!P  |       | 34                |      |          | 9415 | 84'7 |
| Brébeuf         | 1P   |       | 34'1 <sup>C</sup> | 1S   | 41 55.   | 9365 | 84'3 |
| Roselend        | eiP  |       | 34'4              | ei!  | 31 38'9  | 9365 | 84'3 |
| Rochester       | 1P   |       | 34'5              |      |          | 9445 | 85'0 |
| Tiputa          | eP   |       | 35                |      |          | 9290 | 83'6 |
| Le Pertre       | 1P   |       | 35'6              |      |          | 9330 | 84'4 |
| Lanslevillard   | eiP  |       | 35'8              | 1!   | 52'9     | 9395 | 84'5 |
| Taranto         | eP   |       | 38                | e    | 37 28    | 9410 | 84'7 |
| Toulx Ste Croix | 1P   |       | 38'8              |      |          | 9460 | 85'1 |
| Savannah        | eP   |       | 39                |      |          | 9445 | 85'0 |
| Monteynard      | eiP  |       | 39'4              |      |          | 9470 | 85'2 |
| Valsamata       | eiP  |       | 39'5 <sup>D</sup> |      |          | 9455 | 85'1 |
| Isola           | 1P   |       | 39'7              |      |          | 9490 | 85'4 |
| Papeete         | eP   |       | 40                |      |          | 9465 | 84'3 |
| Papenoo         | eP   |       | 40                |      |          | 9365 | 84'3 |
| Roma            | 1P   |       | 40'2              | 1S   | 42 27'2  | 9490 | 85'4 |
| Clermont        | 1P   |       | 40'5              | 1S   | 27'5     | 9480 | 85'3 |
| Karapiro        | eP   |       | 41                | eS   | 02       | 9475 | 85'3 |
| Onerahi         | e(P) |       | 41                |      |          | 9215 | 82'9 |
| Vamos           | eiP  |       | 41'5 <sup>C</sup> | eS   | 0'8      | 9505 | 85'6 |
| Monaco          | 1'P  |       | 41'7              |      |          | 9355 | 85'7 |
| Tarraleah       | 1P   |       | 41'9 <sup>C</sup> |      |          | 9500 | 85'5 |

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|                   |      |       |                   |        |          |       |       |
|-------------------|------|-------|-------------------|--------|----------|-------|-------|
| Berlin            | iP   | 10 31 | 42°1              |        |          | 9545  | 85°9  |
| Moorlands         | iP   |       | 42°5 <sup>C</sup> |        |          | 9520  | 85°7  |
| Palisades         | iP   |       | 43                | iS     | 10 42 18 | 9800  | 88°2  |
| Helwan            | iP   |       | 43 <sup>C</sup>   |        |          | 9545  | 85°9  |
| St Paul en Foret  | iP   |       | 43°3              |        |          | 9570  | 86°1  |
| Tasmanian Univ.   | iP   |       | 44°4 <sup>C</sup> | i      | 32 09°9  | 9530  | 86°2  |
| Lorgues           | iP   |       | 44°5              |        |          | 9595  | 86°4  |
| La Mourre         | iP   |       | 44°6              |        |          | 9800  | 86°4  |
| Messina           | iP   |       | 48 <sup>C</sup>   | iS     | 42 28    | 9705  | 87°3  |
| Messi na ING      | eP   |       | 48°4              | ePP    | 35 18°4  | 9705  | 87°3  |
| Morgantown        | iP   |       | 41°9 <sup>C</sup> | e      | 42 09    | 9665  | 87°0  |
| Reggio Calabria   | eP   |       | 49°7              | eS     | 37°7     | 9710  | 87°4  |
| Weston            | iP   |       | 51°5              | eS     | 32       | 9755  | 87°8  |
| Cumberland Pl     | eP   |       | 52°3              |        |          | 9765  | 87°9  |
| Fordham           | iP   |       | 54                | iS     | 30       | 9810  | 88°3  |
| Philadelphie      | eP   |       | 54                | eSKS   | 37°5     | 9845  | 88°6  |
| Oak Ridge         | iP   |       | 54°5              |        |          | 9800  | 88°2  |
| Glen Cove         | iP   |       | 55                |        |          | 9820  | 88°4  |
| Washington        | iP   |       | 55°7              |        |          | 9855  | 88°7  |
| Bagnères          | iP   |       | 56                |        |          | 9850  | 88°7  |
| Georgetown        | iP   |       | 57°7              | e(S)   | 21       | 9865  | 88°8  |
| Gisborne          | e(P) |       | 59                |        |          | 9625  | 86°6  |
| Wellington        | P    | 32 00 |                   | ePP    | 35 34    | 9800  | 88°2  |
| Atlanta           | iP   |       | 02                | i      | 32 20    | 10035 | 90°3  |
| Léon              | iP   |       | 05                | eS     | 43 05    | 10025 | 90°2  |
| Tortosa           | iP   |       | 05                | iS     | 42 55    | 10070 | 90°6  |
| Chapel Hill       | iP   |       | 05°6              |        |          | 10085 | 90°6  |
| Guadalajara       | eP   |       | 11                | eScS   | 43 17    | 9945  | 89°5  |
| Porto             | iP   |       | 14 <sup>D</sup>   |        |          | 10300 | 92°7  |
| Toledo            | iP   |       | 15°8 <sup>C</sup> | iS     | 07       | 10310 | 92°8  |
| Sétif             | iP   |       | 18°5 <sup>D</sup> |        |          | 10345 | 93°1  |
| Alicante          | iP   |       | 17                | e      | 44       | 10345 | 93°1  |
| Nat. Univ. Mexico | iP   |       | 17 <sup>C</sup>   | i(S)   | 42 50    | 10345 | 93°1  |
| Tacubaya          | eP   |       | 18                | iS     | 43 17    | 10345 | 93°1  |
| Presa Infiernillo | iP   |       | 19°5              | i(S)   | 03       | 10240 | 92°2  |
| Lisboa            | P    |       | 25°4              | S      | 21°8     | 10575 | 95°2  |
| Almería           | iP   |       | 28°5              | ePP    | 36 19°5  | 10575 | 95°2  |
| Malaga            | iP   |       | 28                | iS     | 43 39    | 10650 | 95°8  |
| Columbia          | i    |       | 30                | eS     | 26       | 10145 | 91°3  |
| Vista Hermosa     | iP   |       | 34                | e(S)   | 44 05    | 10695 | 96°2  |
| Addis Ababa       | eP   |       | 34 <sup>D</sup>   | ePP    | 36 32    | 10720 | 96°5  |
| Ponta Delgada     | P    |       | 42                | S      | 44 08    | 10970 | 98°7  |
| Ifrane            | iP   |       | 43°5 <sup>C</sup> |        |          | 11000 | 99°0  |
| Rabat             | iP   |       | 44 <sup>D</sup>   |        |          | 11000 | 99°0  |
| Averroes          | eP   |       | 47 <sup>C</sup>   |        |          | 11000 | 99°0  |
| Tamanrasset       | iP   |       | 48 <sup>C</sup>   | i      | 32 58    | 11655 | 104°9 |
| La Palma          | eP   | 33    | 03                | e      | 37 23    | 11455 | 103°1 |
| Vera Cruz         | e    |       | 45                |        |          | 10565 | 95°1  |
| Tenerife          | PKP  | 37    | 36°6              |        |          | 11845 | 106°6 |
| Eutare            | ePKP |       | 40                | e(PS)  | 48 05    | 12345 | 111°1 |
| Caxacas           | PKP  |       | 49°6              | i(SKS) | 44 25    | 13120 | 118°1 |
| Broken Hill       | PKP  |       | 53                | iPP    | 39 17    | 13355 | 120°2 |
| Bogota            | PKP  |       | 54                | ePP    | 15       | 13290 | 119°6 |



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|                   |                    |                   |     |          |       |       |
|-------------------|--------------------|-------------------|-----|----------|-------|-------|
| Karoi             | PKP                | 10 37 55          | ePP | 10 39 28 | 13435 | 120.9 |
| Scott Base        | PKP                | 55                |     |          | 13535 | 121.8 |
| Quito             | PKP                | 55                | SKS | 44 44    | 13405 | 120.6 |
| Chileka           | (PKP)              | 57                | i   | 39 01    | 12920 | 116.3 |
| Bulawayo          | PKP                | 38 00             | iPP | 39       | 13755 | 123.8 |
| Lamto             | PKP                | 01.3              |     |          | 13800 | 124.2 |
| Changalane        | PKP                | 02.6              | i   | 38 19.8  | 13890 | 125.0 |
| Mawson            | PKP                | 06.7              |     |          | 14135 | 127.2 |
| Pretoria          | iPKP <sub>1</sub>  | 08 <sup>D</sup>   |     |          | 14170 | 127.5 |
| Kimberley         | iPKP <sub>1</sub>  | 10                |     |          | 14640 | 131.8 |
| Huancayo          | PKP                | 11                |     |          | 14680 | 132.1 |
| Windhoek          | iPKP <sub>1</sub>  | 13.9              |     |          | 14850 | 133.6 |
| Eyrd              | iPKP               | 18.9              |     |          | 14805 | 133.2 |
| Arequipa          | PKP <sub>1</sub>   | 20.1              |     |          | 15320 | 137.9 |
| Penas             | ePKP               | 24.2              | PP  | 41 35    | 15515 | 149.6 |
| La Paz            | ePKP <sub>1</sub>  | 24.5              | iPP | 40       | 15565 | 140.1 |
| Cochabamba        | ePKP               | 30.9              |     |          | 15770 | 141.9 |
| Antofagasta       | iPKP               | 35.9 <sup>C</sup> | i   | 38 42.7  | 15965 | 143.7 |
| Novo Lazarevskaya | iP iP <sub>1</sub> | 37.5 <sup>D</sup> |     |          | 16100 | 144.9 |
| Peldehue          | ePKP               | 45.5              | e   | 48 46    | 16570 | 149.1 |
| Santiago          | ePKP               | 46.2              |     |          | 16590 | 149.3 |

inscrit à Merida, Terre Adélie, Lomé.

XV. 29 janvier  
Iles Kouriles

43° 2'N, 147° 2'E. h = 41 km H = 10h42<sup>mn</sup>08.6<sup>S</sup> (CGS)

43° 2'N, 147° 4'E H = 10h42<sup>mn</sup>07<sup>S</sup> (URSS)

42° 59'N, 147° 28'E. h = 20 km H = 10h42<sup>mn</sup>03.8<sup>S</sup> (JMA)

M = 5.9 (Collm), 5.8 (Mt Tsukuba), 5.7 (Kobenhavn), 5.6 (Nurmijaervi),  
5.5 (Kev O, Kajaani), 5.4 (Cumberland Pl), 5.3 (JMA, Bensberg), 5.2  
(CGS), 5.0 (Gilmre Creek), 4.8 (Wichita M), 4.7 (Palmer, Uinta Basin,  
Tonto Foresk).

|                   |    |                   |    |          |      |      |
|-------------------|----|-------------------|----|----------|------|------|
| Nemuro            | eP | 10 42 30          | eS | 10 42 46 | 130  | 1.2  |
| Urakawa           | iP | 43 03             |    |          | 380  | 3.4  |
| Sapporo           | eP | 14                |    |          | 475  | 4.3  |
| Youjno Sakhalinsk | eP | 22                |    |          | 550  | 5.0  |
| Morioka           | eP | 31.2              | e  | 44 32.1  | 635  | 5.7  |
| Fukushima         | eP | 54.8              |    |          | 830  | 7.5  |
| Mt Tsukuba        | eP | 44 12.2           |    |          | 990  | 8.9  |
| Mito              | eP | 13.6              | e  | 45 39    | 950  | 8.6  |
| Dodaira           | eP | 21.9              |    |          | 1055 | 9.5  |
| Vladivostok       | eP | 48                |    |          | 1245 | 11.2 |
| Abuyama           | eP | 45 01.0           |    |          | 1370 | 12.3 |
| Oishiyama         | eP | 11.7              |    |          | 1445 | 13.0 |
| Wakaura W.        | eP | 16                |    |          | 1445 | 13.0 |
| Spærrevohn        | iP | 49 24.3           |    |          | 4210 | 37.9 |
| Barrow            | eP | 31.6 <sup>C</sup> |    |          | 4335 | 39.0 |
| Palmer            | eP | 47                |    |          | 4555 | 41.0 |

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|                        |               |        |                   |        |            |                 |                 |
|------------------------|---------------|--------|-------------------|--------|------------|-----------------|-----------------|
| College                | eP            | 10 49  | 53.2              |        |            | 4610            | 41.5            |
| Gilmore Creek          | eP            |        | 54.5              |        |            | 4620            | 41.6            |
| Pedro Dome             | iP            |        | 54.7              |        |            | 4620            | 41.6            |
| Black Rapids           | iP            | 50     | 01                |        |            | 4710            | 42.4            |
| Mts Sheep Creek        | eP            |        | 07                |        |            | 4655            | 41.9            |
| Talgar                 | iP            |        | 58                |        |            | 5495            | 49.4            |
| Resolute               | eP            | 51     | 39.6 <sup>C</sup> |        |            | 6165            | 55.5            |
| Kevo                   | iP            | 52     | 06.6              |        |            | 6580            | 59.2            |
| Sodankylae             | eP            |        | 18                |        |            | 6780            | 61.0            |
| Edmonton               | eP            |        | 25                |        |            | 6865            | 61.8            |
| Kiruna                 | iP            |        | 27                |        |            | 6920            | 62.3            |
| Newport                | eP            |        | 29                |        |            | 6965            | 62.7            |
| Nordman                | eP            |        | 29                |        |            | 6945            | 62.5            |
| Oulu                   | eP            |        | 30                |        |            | 6980            | 62.8            |
| Kajaani                | iP            |        | 32                | i      | 10 52 43.7 | 7000            | 63.0            |
| Warramunga             | eP            |        | 39.5              |        |            | 7100            | 63.9            |
| Poulkovo               | iP            |        | 46 <sup>D</sup>   |        |            | 7235            | 65.1            |
| Mineral                | eP            |        | 46.4 <sup>C</sup> |        |            | 7185            | 64.6            |
| Umeå                   | iP            |        | 46.9              |        |            | 7265            | 65.4            |
| Moskva                 | eP            |        | 47                |        |            | 7215            | 64.9            |
| Blue M.                | eP            |        | 50                |        |            | 7180            | 64.6            |
| NurmiJaervi            | iP            |        | 55                | i      | 53 06.8    | 7390            | 66.5            |
| <del>Bozeman SSS</del> | <del>eP</del> |        | <del>56</del>     |        |            | <del>7460</del> | <del>67.3</del> |
| Jamestown              | eP            |        | 59.6              |        |            | 7420            | 66.8            |
| Bozeman SSS            | eP            | 53     | 01.3              |        |            | 7480            | 67.3            |
| Skalstugan             | iP            |        | 02.3              |        |            | 7525            | 67.7            |
| Uppsala                | iP            |        | 12.7              | i      | 23.5       | 7700            | 69.3            |
| Frobisher              | eP            |        | 14.5 <sup>C</sup> |        |            | 7745            | 69.7            |
| Lillehammer            | iP            |        | 18.5              |        |            | 7800            | 70.2            |
| Bristane               | iP            |        | 21                |        |            | 7820            | 70.4            |
| Pasadena               | eP            |        | 22                |        |            | 7845            | 70.6            |
| Akureyri               | eP            |        | 24                | i      | 38         | 7865            | 70.8            |
| Goris                  | iP            |        | 25 <sup>C</sup>   |        |            | 7890            | 71.0            |
| Bakouriani             | iP            |        | 26.5              |        |            | 7905            | 71.2            |
| Kongsberg              | iP            |        | 27.7              |        |            | 7965            | 71.7            |
| Flaming Gorge          | eP            |        | 28                |        |            | 7945            | 71.5            |
| Uinta Basin            | eP            |        | 29.1              |        |            | 7980            | 71.8            |
| Tabriz                 | iP            |        | 31.2              |        |            | 7995            | 71.9            |
| Goteborg               | iP            |        | 33                |        |            | 8080            | 72.7            |
| Karlskrona             | iP            |        | 33.4 <sup>C</sup> |        |            | 8100            | 72.9            |
| Chiraz                 | iP            |        | 39 <sup>C</sup>   |        |            | 8135            | 73.2            |
| Kobenhavn              | eP            |        | 43                |        |            | 8255            | 74.3            |
| Tonto Forest           | eP            |        | 47.5              | e(PCP) | 53.5       | 8310            | 74.8            |
| Jasi                   | P             |        | 49.2 <sup>C</sup> |        |            | 8375            | 75.4            |
| Krakow                 | eP            |        | 55.6              |        |            | 8485            | 76.3            |
| Niedzica               | eP            |        | 57.5 <sup>C</sup> |        |            | 8520            | 76.7            |
| Vrincioaia             | P             |        | 58                |        |            | 8530            | 76.8            |
| Raciborz               | eP            | 54(00) |                   |        |            | 8555            | 77.0            |
| Collm                  | iP            |        | 02.7              | esp    | 54 15      | 8645            | 77.8            |
| Albuquerque            | eP            |        | 04                |        |            | 8590            | 77.3            |
| Bratislava             | eIP           |        | 06.6              | ei     | 20.7       | 8775            | 79.0            |
| Pruhonice              | P             |        | 07                |        |            | 8710            | 78.4            |

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|                  |                   |                   |       |                   |       |       |
|------------------|-------------------|-------------------|-------|-------------------|-------|-------|
| Moxa             | eP                | 10 54 08          | e     | 10 54 20          | 8755  | 78°8  |
| Campulung        | P                 | 11                |       |                   | 8665  | 78°0  |
| Wien             | eip               | 11°5              |       |                   | 8800  | 79°2  |
| Kasperské Hory   | P                 | 13 <sup>C</sup>   |       |                   | 8820  | 79°4  |
| Erlangen         | eP                | 14°6 <sup>C</sup> | e(DP) | 26°6 <sup>D</sup> | 8865  | 79°8  |
| Durham           | iP                | 15                |       |                   | 8760  | 78°8  |
| Bensberg         | eP                | 15°3              | e     | 26°5              | 8890  | 80°0  |
| Furstenfeldbruck | eP                | 21                |       |                   | 9010  | 81°1  |
| Wichita M.       | eP                | 25°4              |       |                   | 9110  | 82°0  |
| Luxembourg       | P                 | 26                |       |                   | 9055  | 81°5  |
| Trieste          | eP                | 26°5              | e     | 34°5              | 9145  | 82°3  |
| Welschbruch      | eip               | 27                | ei    | 39                | 9130  | 82°2  |
| Champ du Feu     | eip               | 27°4              |       |                   | 9135  | 82°2  |
| Haudompré        | eip               | 30°2              |       |                   | 9205  | 82°8  |
| Folinière        | eP                | 37                |       |                   | 9345  | 84°1  |
| St Sauveur       | eP                | 37°4              |       |                   | 9355  | 84°2  |
| Sommeé Lormes    | eP                | 37°7              |       |                   | 9365  | 84°3  |
| Les Ba teaux     | eip               | 38°6              |       |                   | 9385  | 84°5  |
| St Saulge        | eP                | 39°1              |       |                   | 9390  | 84°5  |
| Gorron           | eP                | 39°3              |       |                   | 9400  | 84°6  |
| Le Pertre        | eip               | 41°6              |       |                   | 9485  | 84°9  |
| Lanslevillard    | eip               | 41°6              | ei    | 54                | 9450  | 85°1  |
| Toulx Ste Crdix  | eP                | 45                |       |                   | 9515  | 85°6  |
| Monteynard       | eP                | 45°5              | ei    | 59°5              | 9530  | 85°8  |
| St Paul en Foret | eip               | 49°4              |       |                   | 9630  | 86°7  |
| Vouglans         | ei(P)             | 50                | ei    | 59°5              | 9390  | 84°5  |
| Lorgues          | eip               | 50°8              |       |                   | 9655  | 86°9  |
| Garchy           | i(P)              | 50°8 <sup>D</sup> |       |                   | 9385  | 84°5  |
| La Mourre        | eip               | 50°9              |       |                   | 9655  | 86°9  |
| Cumberland Pl    | eP                | 56°1              |       |                   | 9780  | 88°0  |
| Toledo           | iP                | 55 33°3           |       |                   | 10370 | 93°3  |
| Banguil          | iPKP <sub>1</sub> | 11 00 31°5        | i(PP) | 11 01 33°2        | 12465 | 113°8 |
| Broken Hill      | PKP               | 56                |       |                   | 13400 | 120°6 |
| Karol            | PKP               | 59                |       |                   | 13490 | 121°4 |
| Bulawayo         | PKP               | 01 05             |       |                   | 13800 | 124°2 |
| Penas            | ePKP              | 47°8              |       |                   | 15300 | 139°5 |
| La Paz           | PKP               | 49°5              |       |                   | 15545 | 139°9 |

Inscrit à Clermont.

XVI. 29 Janvier

Près de la cote de Guerrero, Mexique

16° 28' N, 99° 45' W

H = 11<sup>h</sup>15<sup>mn</sup>12<sup>s</sup> (Tacubaya)

|                   |    |          |    |          |     |     |
|-------------------|----|----------|----|----------|-----|-----|
| Presa Infiernillo | iP | 11 19 00 | iS | 11 19 36 | 320 | 2°9 |
| Nat. Univ. Mexico | iP | 01       |    |          | 330 | 3°0 |
| Vista Hermosa     | iP | 02       |    |          | 340 | 3°1 |
| Tacubaya          | i  | 06       |    |          | 325 | 2°9 |

XVII. 29 Janvier

Iles Kouriles

43° 6' N, 14 7° 2' E h = 33<sup>km</sup>. H = 11<sup>h</sup>25<sup>mn</sup>24<sup>s</sup> (CGS)

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M = 5.0 (Kajaani), 4.9 (Nurmijaervi), 4.4 (CGS), 4.3 (Uinta Basin), 4.1 (Tonto Forest), 4.0 (Wichita M).

|               |      |                      |            |      |      |
|---------------|------|----------------------|------------|------|------|
| Mt Tsukuba    | eP   | 11 27 27.7           |            | 1020 | 9.2  |
| Barrow        | iP   | 32 45.8              |            | 4290 | 38.6 |
| College       | eP   | 33 06.5              |            | 4580 | 41.2 |
| Gilmore Creek | eP   | 08.7                 |            | 4590 | 41.3 |
| Resolute      | eP   | 34 54                |            | 6120 | 55.1 |
| Kevo          | eP   | 35 16                |            | 6535 | 58.8 |
| Sodankylae    | eP   | 31                   |            | 6735 | 60.6 |
| Oulu          | eP   | 11                   |            |      |      |
| Kajaani       | iP   | 46.7                 |            | 6955 | 62.6 |
| Umea          | iP   | 36 02.4 <sup>D</sup> |            |      |      |
| Nurmijaervi   | iP   | 10                   |            | 7345 | 66.1 |
| Blue M.       | eP   | 13.7                 |            | 7145 | 64.3 |
| Uppsala       | iP   | 27.3                 |            | 7755 | 69.8 |
| Lillehammer   | P    | 33.2                 |            |      |      |
| Uinta Basin   | eP   | 43.2                 |            | 7955 | 71.6 |
| Glamis        | P    | 53                   | i 11 37 08 | 8135 | 73.2 |
| Tonto Forest  | eP   | 37 02.1              | ePCP 11.5  | 8290 | 74.6 |
| Albuquerque   | e(P) | 08                   |            | 8565 | 77.1 |
| Collm         | eP   | 18                   |            | 8600 | 77.4 |
| Moxa          | eP   | 23.5                 |            | 8710 | 78.4 |
| Pruhonice     | eP   | 24                   |            |      |      |
| Wichita M.    | eP   | 41.6                 |            | 9080 | 81.7 |
| Cumberland Pl | eP   | 38 11.3              |            | 9745 | 87.7 |

XVIII. 29 janvier

Au large Est de Hokkaido (Japon)

43° 16' N, 146° 48' E. h = 30 km. H = 11h36<sup>mn</sup>35.5<sup>s</sup>  
M = 4.5 (JMA)

|            |    |          |    |          |      |     |
|------------|----|----------|----|----------|------|-----|
| Nemuro     | eP | 11 36 52 | eS | 11 37 04 | 99   | 0.9 |
| Ku shiro   | eP | 37 07    | eS | 27       | 198  | 1.8 |
| Abashiri   | P  | 08.8     | S  | 36.6     | 219  | 2.0 |
| Urakawa    | eP | 28       | eS | 38 09    | 352  | 3.9 |
| Matsushiro | P  | 38 50    | S  | 40 46    | 1047 | 9.4 |

XIX. 29 janvier  
Iles Kouriles

43° 4' N, 147° 3' E. h = 33 km. H = 11h43<sup>mn</sup>59.1<sup>s</sup> (CGS)  
43° 2' N, 147° 3' E. H = 41h43<sup>mn</sup>58<sup>s</sup> (URSS)  
42° 58' N, 147° 36' E. h = 50 km. H = 11h43<sup>mn</sup>56.8<sup>s</sup> (JMA)

M = 5.9 (Mt Tsukuba, Collm), 5.7 (Kobenhavn), 5.6 (Nurmijaervi, Resolute), 5.4 (JMA, Bensberg), 5.2 (Kajaani), 5.1 (CGS, College, Gilmore Creek), 5.0 (Blue M, Golden, Cumberland Pl), 4.6 (Palmer), 4.5 (Uinta Basin, Tonto Forest, Wichita M).

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|                   |    |          |    |            |      |      |
|-------------------|----|----------|----|------------|------|------|
| Nemuro            | eP | 11 44 23 | eS | 11 44 40   |      |      |
| Kourilsk          | eP | 51       | eS | 55         |      |      |
| Obihiro           | eP | 49       | eS | 45 31      |      |      |
| Sopporo           | eP | 45 06    | eS | 57         |      |      |
| Youjno Sakhalinsk | iP | 13.6D    | iS | 46 17      |      |      |
| Aomori            | eP | 20.6     | S  | 18.8       |      |      |
| Mizusawa          | eP | 32.6     |    |            |      |      |
| Mt Tsukuba        | eP | 46 05.4  | eS | 47 39.4    | 1010 | 9.1  |
| Dodaira           | eP | 15.3     |    |            | 1080 | 9.7  |
| Matsushiro        | iP | 17.6     |    |            |      |      |
| Vladivostok       | eP | 40C      |    |            |      |      |
| Abuyama           | iP | 58.5     |    |            |      |      |
| Oishiyama         | eP | 47 01.4  |    |            | 1465 | 13.2 |
| Wakaura W.        | eP | 08       |    |            | 1465 | 13.2 |
| Shiraki           | eP | 20.5     |    |            | 1600 | 14.4 |
| Yakoutsk          | iP | 48 40C   |    |            |      |      |
| Bodajbo           | eP | 49 21    |    |            |      |      |
| Sparrevohn        | eP | 51 12    |    |            | 4190 | 37.7 |
| Barrow            | eP | 21.1     |    |            | 4310 | 38.8 |
| Tanana            | eP | 30       |    |            | 4400 | 39.6 |
| Palmer            | eP | 38.7     |    |            | 4535 | 40.8 |
| Pedro Dome        | iP | 42.5     |    |            | 4600 | 41.4 |
| College           | iP | 43.8     | i  | 51 55.2    | 4590 | 41.8 |
| Gilmore Creek     | eP | 44       |    |            | 4600 | 41.4 |
| Mt Sheep Creek    | eP | 47       |    |            | 4635 | 41.7 |
| Black Rapids      | eP | 50       |    |            | 4690 | 42.2 |
| Semipalatinsk     | P  | 52 12    |    |            |      |      |
| Talgar            | iP | 47       |    |            |      |      |
| Chittagong        | eP | 54       |    |            | 5565 | 50.1 |
| Frounze           | iP | 53 03C   |    |            |      |      |
| Alert             | eP | 15.5D    |    |            | 5945 | 53.5 |
| Sverdlovsk        | eP | 18       |    |            |      |      |
| Resolute          | eP | 29       |    |            | 6145 | 55.3 |
| Tachkent          | eP | 34D      |    |            |      |      |
| Bakra             | e  | 37       |    |            |      |      |
| New Dehli         | eP | 43C      | eS | 12 01 35   | 6335 | 57.0 |
| Douchambé         | iP | 46C      |    |            |      |      |
| Warsak            | eP | 50.4     |    |            | 6445 | 58.0 |
| Kevo              | eP | 58       |    |            | 6565 | 59.1 |
| Sodankylae        | iP | 54 09    |    |            | 6755 | 60.8 |
| Edmonton          | eP | 15       |    |            | 6845 | 61.6 |
| Kiruna            | iP | 18.3     |    |            | 6900 | 62.1 |
| Newport           | eP | 20       |    |            | 6945 | 62.5 |
| Nordman           | eP | 20       |    |            | 6920 | 62.3 |
| Oulu              | eP | 21       |    |            |      |      |
| Kajaani           | iP | 22.7     | i  | 11 54 33.2 | 6930 | 62.8 |
| Qetta             | eP | 27.5C    |    |            | 7045 | 63.4 |
| Warramunga        | eP | 30.5     |    |            | 7120 | 64.1 |
| Mashad            | eP | 31       |    |            | 7190 | 64.7 |
| Blue M.           | eP | 31.2     |    |            | 7155 | 64.4 |
| Madras            | eP | 36       |    |            |      |      |
| Poulkovo          | iP | 37       |    |            |      |      |
| Uméa              | iP | 37.9     |    |            |      |      |

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|                  |     |                   |        |            |      |      |  |
|------------------|-----|-------------------|--------|------------|------|------|--|
| Poona            | eP  | 11 54 42          |        |            |      |      |  |
| Nurmijaerwi      | iP  | 45.5              | e      | 11 55 14   | 7380 | 66.4 |  |
| Butte            | eP  | 46                | e      | 02.8       | 7385 | 66.3 |  |
| Jamestown        | eP  | 50.6              |        |            | 7400 | 66.6 |  |
| Skalstugan       | iP  | 53.4              |        |            |      |      |  |
| Priest           | eP  | 56.9 <sup>C</sup> |        |            | 7510 | 67.6 |  |
| Uppsala          | iP  | 55 02.7           |        |            | 7690 | 69.2 |  |
| Frobisher        | eP  | 05                |        |            | 7720 | 69.5 |  |
| Akureyri         | eP  | 08                |        |            | 7855 | 70.7 |  |
| Brisbane         | eP  | 08                | i      | 13         | 7845 | 70.6 |  |
| Lillehammer      | iP  | 09.2              |        |            | 7790 | 70.1 |  |
| Kirovabad        | eP  | 10                |        |            |      |      |  |
| Goldstone        | iP  | 13                | i      | 24         | 7845 | 70.6 |  |
| Goris            | iP  | 16                |        |            |      |      |  |
| Flaming Gorge    | eP  | 17.5              |        |            | 7920 | 71.3 |  |
| Bakouriani       | iP  | 18.1              |        |            |      |      |  |
| Kongsberg        | iP  | 18.9              |        |            | 7955 | 71.6 |  |
| Uinta Basin      | eP  | 19.6              | ePcP   | 26.6       | 7955 | 71.6 |  |
| Tabriz           | eP  | 22                |        |            | 7990 | 71.9 |  |
| Göteborg         | iP  | 24.3              |        |            |      |      |  |
| Karlskrona       | iP  | 25.3              |        |            |      |      |  |
| Boulder City     | eP  | 29                | e      | 47.2       | 7920 | 71.3 |  |
| Chiraz           | iP  | 30 <sup>C</sup>   | e      | 12 05 03   | 8135 | 73.2 |  |
| Kermanshah       | eP  | 32                |        |            |      |      |  |
| Köbenhavn        | iP  | 34 <sup>D</sup>   |        |            | 8245 | 74.2 |  |
| Golden           | eP  | 36.2              |        |            | 8265 | 74.4 |  |
| Tonto Forest     | eP  | 37.7              | e(PcP) | 11 55 48.4 | 8300 | 74.7 |  |
| Iasi             | P   | 39                |        |            |      |      |  |
| Tucson           | eP  | 46                |        |            | 8480 | 76.3 |  |
| Krakow           | eP  | 46.6              | e      | 11 56 04.1 |      |      |  |
| Oujgorod         | eP  | 47                |        |            |      |      |  |
| Niedzica         | eP  | 48.8 <sup>D</sup> |        |            |      |      |  |
| Raciborz         | eP  | 49                |        |            |      |      |  |
| Vrincioaia       | P   | 49                |        |            |      |      |  |
| Albuquerque      | eP  | 51.8              |        |            | 8565 | 77.1 |  |
| Collm            | eP  | 53                |        |            | 8635 | 77.7 |  |
| Campulung        | P   | 58                |        |            |      |      |  |
| Pruhonicce       | P   | 58.5              |        |            | 8700 | 78.3 |  |
| Moxa             | eP  | 59                |        |            | 8745 | 78.7 |  |
| Bratislava       | eP  | 58 01.2           | e      | 52.2       | 8765 | 78.9 |  |
| Wien             | eiP | 02.5              |        |            |      |      |  |
| Kasperské Hory   | P   | 04                |        |            | 8810 | 79.3 |  |
| Bensberg         | iP  | 05 <sup>C</sup>   | e      | 16.5       | 8865 | 79.8 |  |
| Manhattan        | eP  | 07                |        |            | 8835 | 79.5 |  |
| Erlangen         | iP  | 08 <sup>D</sup>   |        |            |      |      |  |
| Fürstenfeldbruck | eP  | 12                |        |            | 9000 | 81.0 |  |
| Uccle            | P   | 13                |        |            |      |      |  |
| Wichita M.       | eP  | 15.8              |        |            | 9090 | 81.8 |  |
| Luxembourg       | P   | 16                |        |            | 9045 | 81.4 |  |
| Durham           | iP  | 17                |        |            |      |      |  |
| Welschbruch      | eiP | 18                |        |            |      |      |  |
| Champ du Feu     | eP  | 18.2              |        |            |      |      |  |

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|                   |                   |       |                 |     |       |         |       |
|-------------------|-------------------|-------|-----------------|-----|-------|---------|-------|
| Haudompré         | eP                | 11 58 | 21.2            |     |       |         |       |
| Folinière         | eP                |       | 27.8            |     |       | 9335    | 84.0  |
| St. Sauveur       | eP                |       | 28.5            |     |       | 9335    | 84.0  |
| Sommée Lormes     | eP                |       | 28.6            |     |       | 9345    | 84.1  |
| Les Buteaux       | eP                |       | 29.8            |     |       |         |       |
| Garchy            | iP                |       | 30 <sup>D</sup> |     |       |         |       |
| St. Saulge        | eP                |       | 30              |     |       | 9380    | 84.4  |
| Vouglans          | eiP               |       | 30.3            | ei  | 11 58 | 41.8    |       |
| Gorron            | eP                |       | 30.4            |     |       | 9380    | 84.4  |
| Roselend          | eiP               |       | 31              | ei  |       | 43      |       |
| Le Pertre         | eP                |       | 32.8            |     |       |         |       |
| Lanslevillard     | eiP               |       | 33.1            | ei  |       | 44      |       |
| Clermont          | eP                |       | 34.5            | e   |       | 57 32.5 |       |
| Toulx Ste Croix   | eP                |       | 36.3            |     |       |         |       |
| Monteynard        | eP                |       | 36.5            |     |       |         |       |
| Isola             | iP                |       | 36.5            |     |       | 9545    | 85.9  |
| St. Paul en Foret | eP                |       | 40.4            |     |       |         |       |
| Lorgues           | eP                |       | 41.9            |     |       |         |       |
| La Mourre         | eP                |       | 42              |     |       |         |       |
| Cumberland Pl.    | eP                |       | 46.5            |     |       | 9755    | 87.8  |
| Karoi             | PKP               | 12 02 | 49              |     |       | 13500   | 121.5 |
| Bulawayo          | PKP               |       | 56              |     |       | 13310   | 124.3 |
| Lamto             | PKP               |       | 57              |     |       | 13845   | 124.6 |
| Bangui            | iPKP <sub>1</sub> | 03 18 |                 | iPP | 12 04 | 17.8    |       |
| Penas             | PKP               |       | 26.7            |     |       | 15480   | 139.3 |
| La Paz            | PKP               |       | 28              |     |       | 15535   | 139.8 |

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Iles aux Rats (Aléoutiennes)

51°2 N ; 179°1 E ; h = 45<sup>km</sup> ; H = 11<sup>h.40<sup>mm</sup></sup> 18.7S. (CGS)

M. = 5.1(Uinta Basin); 4.8(Wichita M.); 4.6(CGS - College); 4.5(Blue M. - Tonto Forest); 4.4(Golden); 4.3(Gilmore Creek).

|               |    |       |                   |      |       |      |      |      |
|---------------|----|-------|-------------------|------|-------|------|------|------|
| Adak          | iP | 11 50 | 01.6              | iS   | 11 50 | 34.3 | 310  | 2.8  |
| Palmer        | eP |       | 53 50.2           |      |       |      | 2245 | 20.2 |
| College       | iP |       | 54 10.1           |      |       |      | 2435 | 21.9 |
| Gilmore Creek | eP |       | 11.5              |      |       |      | 2445 | 22.0 |
| Barrow        | eP |       | 20.1              |      |       |      | 2545 | 22.9 |
| Matsushiro    | P  |       | 55 52             |      |       |      |      |      |
| Edmonton      | eP |       | 56 50             |      |       |      | 4445 | 40.0 |
| Blue M.       | eP |       | 57 04.8           |      |       |      | 4645 | 41.8 |
| Alert         | eP |       | 14.5 <sup>C</sup> |      |       |      | 4780 | 43.0 |
| Mt. Hamilton  | eP |       | 21.7 <sup>D</sup> |      |       |      | 4820 | 43.4 |
| Jamestown     | eP |       | 22.2 <sup>D</sup> |      |       |      | 4865 | 43.8 |
| Priest        | eP |       | 28.6 <sup>D</sup> |      |       |      | 4980 | 44.8 |
| Uinta Basin   | eP | 58    | 03.4              |      |       |      | 5455 | 49.1 |
| Tonto Forest  | eP |       | 24.8              |      |       |      | 5785 | 51.9 |
| Golden        | eP |       | 25                |      |       |      | 5780 | 52.0 |
| Wichita M.    | eP | 59    | 17.2              | ePcP | 12 00 | 04.8 | 6590 | 59.3 |
| Uméa          | iP |       | 46.4              |      |       |      |      |      |

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|                 |      |                   |      |      |
|-----------------|------|-------------------|------|------|
| Cumberland Pl.  | eP   | 12 00 04.3        | 7355 | 66.2 |
| Uppsala         | 1P   | 15.7              |      |      |
| Charters Towers | eP   | 01 06             | 8510 | 76.6 |
| Qietta          | eP   | 22.2 <sup>C</sup> | 8820 | 79.4 |
| Warramunga      | eP   | 29                | 9000 | 81.0 |
| Chittagong      | eP   | 30                |      |      |
| Brisbane        | eP   | 34                | 9065 | 81.6 |
| Poona           | eP   | 50                | 9435 | 84.9 |
| Prétoria        | 1PKP | 08 56             |      |      |

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Iles Kouriles.

43° 2' N ; 147° 3' E ; h = 33<sup>km</sup> ; H = 12<sup>h.07mn08s.</sup> (CGS)  
 43° 5' N ; 147° 5' E ; H = 12<sup>h.07mn08s.</sup> (URSS)  
 43° 05' N ; 147° 16' E ; h = 20<sup>km</sup> ; H = 12<sup>h.07mn09s.</sup> (JMA)

M. = 5.9 (Collm) ; 5.7 (Mt. Tsukuba) ; 5.4 (Nurmijaerwi - New Delhi) ;  
 5.3 (College - Resolute - Poona) ; 5.2 (Kajaani) ; 5.0 (CGS) ; 4.9 (JMA) ;  
 4.7 (Blue M.) ; 4.5 (Wlchita M.) ; 4.4 (Uinta Basin) ; 4.2 (Eureka - Tonto Forest)

|                 |    |                   |    |            |      |      |
|-----------------|----|-------------------|----|------------|------|------|
| Nemuro          | eP | 12 07 33          | S  | 12 07 49.3 | 140  | 1.3  |
| Urakawa         | 1P | 08 06             | S  | 08 49      | 390  | 3.5  |
| Sapporo         | eP | 16                |    |            | 485  | 4.4  |
| Mt. Tsukuba     | eP | 09 15             | eS | 10 49.1    | 990  | 8.9  |
| Dodaira         | eP | 23.9              |    |            | 1055 | 9.5  |
| Matsushiro      | 1P | 27.1              |    |            | 1070 | 9.6  |
| Oishiyama       | eP | 10 11             |    |            | 1445 | 13.0 |
| Shiraki         | P  | 29.7              |    |            | 1590 | 14.3 |
| Bodajbo         | 1P | 12 31.5           |    |            | 2815 | 25.3 |
| Sparrevohn      | eP | 14 24             |    |            | 4210 | 37.9 |
| Barrow          | eP | 30.9              |    |            | 4335 | 39.0 |
| Tanana          | eP | 48                |    |            | 4420 | 39.8 |
| Palmer          | eP | 48.2              |    |            | 4555 | 41.0 |
| College         | eP | 53                | 1  | 15 04.5    | 4610 | 41.5 |
| Gilmore Creek   | eP | 54                | e  | 06.3       | 4620 | 41.6 |
| Pedro Dome      | eP | 55                |    |            | 4620 | 41.6 |
| Black Rapids    | eP | 15 01             |    |            | 4710 | 42.4 |
| Mts Sheep Creek | eP | 07                |    |            | 4655 | 41.9 |
| Semipalatinsk   | eP | 21.8              |    |            | 5005 | 45.0 |
| Talgar          | eP | 16 00             |    |            | 5500 | 49.5 |
| Frounze         | 1P | 14                |    |            | 5725 | 51.5 |
| Sverdlovsk      | eP | 28                |    |            | 5960 | 53.6 |
| Resolute        | eP | 39.5 <sup>C</sup> | 1  | 16 51.5    | 6165 | 55.5 |
| Garm            | 1P | 47 <sup>C</sup>   |    |            | 6250 | 56.2 |
| New Dehli       | 1P | 53                |    |            | 6335 | 57.0 |
| Kevo            | eP | 17 11             |    |            | 6590 | 59.3 |
| Sodankylä       | 1P | 18.1              |    |            | 6780 | 61.0 |
| Edmonton        | eP | 25                |    |            | 6865 | 61.8 |
| Kiruna          | eP | 27                |    |            | 6925 | 62.3 |



|                   |      |                   |      |          |      |      |
|-------------------|------|-------------------|------|----------|------|------|
| Oulu              | eP   | 12 17 30          |      |          | 6980 | 62°8 |
| Nordman           | eP   | 30                |      |          | 6945 | 62°5 |
| Kajaani           | 1P   | 31°6              |      |          | 7000 | 63°0 |
| Warramunga        | eP   | 41                |      |          | 7100 | 63°9 |
| Blue M.           | eP   | 43°8              | e    | 12 17 55 | 7165 | 64°5 |
| Uméa              | 1P   | 46°9              |      |          | 7270 | 65°4 |
| Moskva            | eP   | 47                |      |          | 7220 | 65°0 |
| Poona             | eP   | 51                |      |          | 7290 | 65°6 |
| Jamestown         | e/P) | 52                |      |          | 7420 | 66°8 |
| Nurmi jaerwi      | 1P   | 55°5              |      |          | 7400 | 66°6 |
| Bozeman SSS       | eP   | 18 02             | e    | 18 10·6  | 7465 | 67°2 |
| Eureka            | eP   | 10°3              |      |          | 7620 | 68°6 |
| Uppsala           | 1P   | 12°6              |      |          | 7700 | 69°3 |
| Frobisher         | eP   | 14                |      |          | 7745 | 69°7 |
| Lillehammer       | 1P   | 19                |      |          | 7800 | 70°2 |
| Pasadena          | eP   | 20                |      |          | 7845 | 70°6 |
| Brisbane          | 1P   | 23                |      |          | 7820 | 70°4 |
| Boulder City      | eP   | 26°3              |      |          | 7945 | 71°5 |
| Bakouriani        | eP   | 27°2              |      |          | 7915 | 71°2 |
| Uinta Basin       | eP   | 29°3              | ePcP | 40·7     | 7980 | 71°8 |
| Göteborg          | 1P   | 32°8              |      |          | 8085 | 72°8 |
| Chiraz            | eP   | 40                |      |          | 8135 | 73°3 |
| Tonto Forest      | eP   | 48°3              | ePP  | 21 32°2  | 8310 | 74°8 |
| Iasi              | P    | 49                |      |          | 8380 | 75°4 |
| Golden            | e/P) | 50°5              |      |          | 8290 | 74°6 |
| Tucson            | eP   | 56                |      |          | 8490 | 76°4 |
| Krakow            | e1P  | 56°3              |      |          | 8485 | 76°4 |
| Oujgorod          | eP   | 58                |      |          | 8510 | 76°6 |
| Niedzica          | e1P  | 58°5              |      |          | 8525 | 76°7 |
| Albuquerque       | eP   | 19 00             |      |          | 8590 | 77°3 |
| Collm             | 1P   | 03°4              | e    | 19 13    | 8655 | 77°9 |
| Campulung         | P    | 07                |      |          | 8670 | 78°0 |
| Pruhonicé         | P    | 08                |      |          | 8710 | 78°4 |
| Moxa              | eP   | 08°5              |      |          | 8765 | 78°9 |
| Kasperské Hory    | P    | 14                |      |          | 8835 | 79°5 |
| Bensberg          | 1P   | 15°3 <sup>C</sup> | e    | 51       | 8890 | 80°0 |
| Erlangen          | e1P  | 15°6 <sup>D</sup> |      |          | 8870 | 79°8 |
| Fürstenfeldbruck  | eP   | 21                | ePP  | 31       | 9015 | 81°1 |
| Wlchita M.        | eP   | 28°2              |      |          | 9100 | 81°9 |
| Folinière         | eP   | 37°5              |      |          | 9345 | 84°1 |
| Sommée Lormes     | eP   | 38°1              |      |          | 9365 | 84°3 |
| St. Sauveur       | eP   | 38°8              |      |          | 9355 | 84°2 |
| Les Buteaux       | eP   | 39°3              |      |          | 9390 | 84°5 |
| Garchy            | eP   | 39°4 <sup>C</sup> |      |          | 9390 | 84°5 |
| St. Saulge        | eP   | 39°7              |      |          | 9390 | 84°5 |
| Vouglans          | eP   | 40                | e    | 50       | 9390 | 84°5 |
| Gorron            | eP   | 40°2              |      |          | 9400 | 84°6 |
| Le Pertre         | eP   | 42°5              |      |          | 9440 | 85°0 |
| Lanslevillard     | eP   | 43                | e1   | 44·7     | 9455 | 85°1 |
| Toulx Ste Croix   | eP   | 45°3              |      |          | 9520 | 85°7 |
| St. Paul en Foret | eP   | 50°1              |      |          | 9635 | 86°7 |
| Lorgues           | eP   | 51°3              |      |          | 9655 | 86°9 |

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|                   |                   |            |   |          |             |
|-------------------|-------------------|------------|---|----------|-------------|
| La Mourre         | eP                | 12 19 51.3 |   | 9660     | 86°9        |
| Cumberland Pl.    | e(P)              | 20 04.2    |   | 9780     | 88°0        |
| Penas             | PKP               | 28 38.6    | e | 12 28 28 | 15500 139°5 |
| La Paz            | PKP               | 37         |   | 15540    | 139°9       |
| Novo_Lazarevskaya | ePKP <sub>1</sub> | 42         |   | 16080    | 144°7       |

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Nouvelles Hébrides (Ile Tanna)

20°0 S ; 168°2 E ; H = 13<sup>h</sup>.16<sup>mn</sup>56<sup>s</sup>. (M. = 3.5(Nouméa))

|            |    |                       |    |          |  |
|------------|----|-----------------------|----|----------|--|
| Ouanaham   | iP | 13 17 21 <sup>C</sup> | 1S | 13 17 33 |  |
| Port Vila  | iP | 27.3 <sup>D</sup>     | 1S | 53       |  |
| Nouméa     | iP | 36.8 <sup>(C)</sup>   | 1S | 18 05    |  |
| Luganville | iP | 57.9 <sup>D</sup>     | 1S | 45       |  |

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Nouvelles Hébrides (Ile Tanna)

Vers 20°1/4 S ; 168°1/4 E ; H = 13<sup>h</sup>.17<sup>mn</sup>26<sup>s</sup>. (Nouméa)

|          |     |            |    |            |  |
|----------|-----|------------|----|------------|--|
| Ouanaham | eIP | 13 17 47.4 | 1S | 13 18 01.5 |  |
| Nouméa   | eIP | 18 07      | 1S | 33         |  |

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Iles Kouriles.

43°5 N ; 146°7 E ; h = 33<sup>km</sup> ; H = 14<sup>h</sup>.10<sup>mn</sup>33<sup>s</sup>. (CGS)

M. = 5.0(Kajaani) ; 4.9(Mt. Tsukuba) ; 4.8(Nurmijaerwi) ; 4.4(CGS) ;  
4.2(Gilmore Creek) ; 4.1(Uinta Basin) ; 3.5(Tonto Forest).

|               |    |            |   |          |      |
|---------------|----|------------|---|----------|------|
| Mt. Tsukuba   | eP | 14 12 37.7 |   | 990      | 8°9  |
| Matsushiro    | P  | 48         | S | 14 14 29 |      |
| Dodaira       | eP | 48.7       |   | 1045     | 9°4  |
| Barrow        | eP | 17 56.2    |   | 4320     | 38°9 |
| College       | eP | 18 18      |   | 4610     | 41°5 |
| Gilmore Creek | eP | 21         |   | 4620     | 41°6 |
| Resolute      | eP | 20 04      |   | 6145     | 55°3 |
| Kevo          | eP | 29         |   |          |      |
| Sodankylä     | eP | 42         |   | 6735     | 60°6 |
| Kiruna        | eP | 51         |   |          |      |
| Oulu          | eP | 53         |   |          |      |
| Kajaani       | iP | 55.2       |   | 6945     | 62°5 |
| Uméa          | iP | 21 10.8    |   |          |      |
| Nurmijaerwi   | iP | 18.4       |   | 7345     | 66°1 |
| Bozeman SSS   | eP | 26         |   | 7490     | 67°4 |
| Uppala        | iP | 30.0       |   |          |      |

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|              |    |            |        |            |      |      |
|--------------|----|------------|--------|------------|------|------|
| Uppsala      | 1P | 14 21 35.3 |        |            |      |      |
| Lillehammer  | 1P | 42.4       |        |            | 7755 | 69.8 |
| Uinta Basin  | eP | 54.8       | ePcP   | 14 22 06.0 | 8000 | 72.0 |
| Tonto Forest | eP | 22 14.0    | e(PcP) | 25.0       | 8335 | 75.0 |
| Collm        | eP | 26         |        |            | 8600 | 77.4 |

XXV. - Îles Kouriles.

43° 1 N ; 146° 9 E ; h = 33<sup>km</sup> ; H = 14<sup>h.43<sup>mn</sup></sup> 50.5<sup>s.</sup> (CGS)  
 43° 6 N ; 147° 0 E ; H = 14<sup>h.43<sup>mn</sup></sup> 52<sup>s.</sup> (URSS)

M. = 5.4(Nurmijaerwi) ; 5.3(Kajaani) ; 5.0(College - Bozeman SSS - Eureka) ;  
 4.7(CGS - Uinta Basin) ; 4.6(Blue M. - Wichita M.) ; 4.5(URSS - Gilmore  
 Creek - Tonto Forest) ; 4.4(Albuquerque) ; 4.2(Palmer).

|                 |      |                   |    |          |      |      |
|-----------------|------|-------------------|----|----------|------|------|
| Matsushiro      | P    | 14 46 04          | eS | 14 47 45 |      |      |
| Abuyama         | 1P   | 45.5              |    |          |      |      |
| Bodajbo         | eP   | 49 13.5           |    |          |      |      |
| Sparrevohn      | 1P   | 51 09.5           |    |          | 4235 | 38.1 |
| Barrow          | eP   | 16.2              |    |          | 4355 | 39.2 |
| Palmer          | eP   | 33.3              |    |          | 4590 | 41.3 |
| College         | 1P   | 38.2              | i  | 51 50    | 4635 | 41.7 |
| Gilmore Creek   | eP   | 39                |    |          | 4655 | 41.9 |
| Pedro Dome      | 1P   | 39.6              |    |          | 4645 | 41.8 |
| Mts Sheep Creek | 1P   | 41.1              |    |          | 4680 | 42.1 |
| Black Rapids    | 1P   | 45.8              |    |          | 4735 | 42.6 |
| Semipalatinsk   | eP   | 52 03             |    |          |      |      |
| Shillong        | eP   | 27                |    |          |      |      |
| Talgar          | eP   | 41                |    |          |      |      |
| Chittagong      | eP   | 43                |    |          |      |      |
| Chatra          | 1P   | 51 <sup>D</sup>   |    |          |      |      |
| Sverdlovsk      | eP   | 53 10             |    |          |      |      |
| Alert           | eP   | 10                |    |          | 5980 | 53.8 |
| Resolute        | eP   | 24                |    |          | 6180 | 55.6 |
| Garm            | 1P   | 28 <sup>C</sup>   |    |          |      |      |
| New Dehli       | 1P   | 34                |    |          |      |      |
| Sodankylä       | 1P   | 54 02.2           |    |          |      |      |
| Kevo            | 1(P) | 07                |    |          | 6590 | 59.3 |
| Kiruna          | eP   | 10.2              |    |          |      |      |
| Oulu            | eP   | 13                |    |          |      |      |
| Newport         | eP   | 14                |    |          | 6990 | 62.9 |
| Nordman         | eP   | 14                |    |          | 6980 | 62.8 |
| Kajaani         | 1P   | 15.5              |    |          | 7000 | 63.0 |
| Quetta          | eP   | 17.9 <sup>C</sup> |    |          | 7020 | 63.2 |
| Edmonton        | eP   | 21                |    |          | 6890 | 62.0 |
| Warramunga      | eP   | 21.5              |    |          |      |      |
| Blue M.         | eP   | 27.9              |    |          | 7200 | 64.8 |
| Moskva          | eP   | 29                |    |          |      |      |
| Uméa            | 1P   | 30.4 <sup>C</sup> |    |          |      |      |
| Poona           | eP   | 31                |    |          |      |      |
| Oroville        | eP   | 31.5              |    |          | 7265 | 65.4 |
| Nurmijaerwi     | 1P   | 38.5              | i  | 54 50.2  | 7390 | 66.5 |

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|                  |      |       |                   |      |          |       |       |
|------------------|------|-------|-------------------|------|----------|-------|-------|
| Bozeman SSS      | eP   | 14 54 | 45°5              |      |          | 7500  | 67°5  |
| Eureka           | 1P   |       | 54°2              |      |          | 7645  | 68°8  |
| Uppsala          | 1P   |       | 55°1              |      |          | 7790  | 69°3  |
| Woody            | 1P   |       | 56                | 1    | 14 55 08 | 7710  | 69°4  |
| Frobisher        | eP   |       | 58°5 <sup>C</sup> |      |          | 7765  | 69°9  |
| Lillehammer      | 1P   | 55    | 02                |      |          | 7800  | 70°2  |
| Kirovabad        | eP   |       | 03                |      |          |       |       |
| Boulder City     | eP   |       | 13                |      |          | 7980  | 71°8  |
| Uinta Basin      | eP   |       | 13°5              | ePP  | 58 06·1  | 8010  | 72°1  |
| Chiraz           | P    |       | 21°8              |      |          | 8110  | 73°0  |
| Campulung        | P    |       | 27                |      |          |       |       |
| Golden           | eP   |       | 30°5              |      |          | 8320  | 74°9  |
| Tonto Forest     | eP   |       | 31°6              | ePcP | 55 50°8  | 8345  | 75°1  |
| Iasi             | P    |       | 32 <sup>C</sup>   |      |          |       |       |
| Oujgorod         | eP   |       | 38                |      |          |       |       |
| Krakow           | eP   |       | 38°7              |      |          |       |       |
| Tucson           | eP   |       | 39°5              |      |          | 8520  | 76°7  |
| Niedzica         | e1P  |       | 40°5              |      |          |       |       |
| Albuquerque      | eP   |       | 45°5              |      |          | 8610  | 77°5  |
| Collm            | 1P   |       | 46                |      |          | 8645  | 77°8  |
| Pruhonice        | e1P  |       | 49°5              |      |          |       |       |
| Moxa             | eP   |       | 51°5              |      |          | 8755  | 78°8  |
| Kasperské Hory   | P    |       | 55                |      |          | 8820  | 79°4  |
| Erlangen         | eP   |       | 58°1 <sup>D</sup> |      |          |       |       |
| FMrstenfeldbruck | eP   | 56    | 04                | ePcP | 56 10    |       |       |
| Wichita M.       | eP   |       | 09°4              |      |          | 9135  | 82°2  |
| Sommée Lormes    | eP   |       | 20°7              |      |          | 9365  | 84°3  |
| Garchy           | 1P   |       | 21°6 <sup>C</sup> |      |          |       |       |
| Les Buteaux      | eP   |       | 21°7              |      |          |       |       |
| Vouglans         | eP   |       | 22                | e    | 34       |       |       |
| St. Saulge       | eP   |       | 22°1              |      |          | 9390  | 84°5  |
| Roselend         | e1P  |       | 23                |      |          |       |       |
| Lanslevillard    | eP   |       | 25                |      |          |       |       |
| Toulx Ste Croix  | eP   |       | 28°3              |      |          |       |       |
| La Mourre        | eP   |       | 33°9              |      |          |       |       |
| Bangui           | 1PKP | 15 03 | 14°5              |      |          |       |       |
| La Paz           | PKP  |       | 23                |      |          | 15580 | 140°2 |
| Penas            | PKP  |       | 31°6              |      |          | 15520 | 139°7 |

inscrit à Trieste.

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Witwatersrand.

26°5 S ; 27°3 E ; H = 14<sup>h</sup>.50<sup>mn</sup>55<sup>s</sup> ; M. = 3·0 (Bulawayo)

|          |     |          |     |          |
|----------|-----|----------|-----|----------|
| Bulawayo | ePn | 14 52 30 | eSg | 14 54 11 |
| Karoi    | eSg | 55 50    | eL  | 55 58    |

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Iles Loyauté

Vers 20° 1/2 S ; 168° 1/4 E ; H = 15<sup>h</sup>.30<sup>mn</sup>52<sup>s</sup>. ; M. = 3.4(Nouméa)

|          |    |       |                   |    |       |       |
|----------|----|-------|-------------------|----|-------|-------|
| Ouanaham | 1P | 15 31 | 12.7 <sup>C</sup> | 1S | 15 31 | 25.5  |
| Nouméa   | 1P |       | 31.3 <sup>C</sup> | 1S |       | 32 01 |

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Sud des Iles Kermadec.

33° 8 S ; 179° 3 W ; h = 33<sup>km</sup> ; H = 15<sup>h</sup>.43<sup>mn</sup>19<sup>s</sup>. (CGS)

M. = 6.1(Rabaul) ; 5.1(CGS) ; 5.0(Tonto Forest - Penas) ; 4.9(Eureka - Blue M.) ;  
4.5(Uinta Basin).

|                 |    |       |                   |     |       |    |       |      |
|-----------------|----|-------|-------------------|-----|-------|----|-------|------|
| Raoul Island    | 1P | 15 44 | 28                | 1S  | 15 45 | 25 | 520   | 4.7  |
| Gisborne        | eP |       | 35                |     |       |    | 590   | 5.3  |
| Onerahi         | eP |       | 44                |     |       |    | 610   | 5.5  |
| Karapiro        | eP |       | 47                | eS  |       | 56 | 655   | 5.9  |
| Wellington      | P  | 45    | 22                | S   | 46    | 57 | 930   | 8.8  |
| Monowai         | eP | 46    | 56                | eS  | 49    | 38 | 1735  | 15.6 |
| Nouméa          | 1P | 47    | 20.1 <sup>D</sup> |     |       |    | 1880  | 16.9 |
| Ouanaham        | 1P |       | 27.9 <sup>D</sup> |     |       |    | 1955  | 17.6 |
| Port Villa      | 1P |       | 45.2              |     |       |    | 2155  | 19.4 |
| Afiamalu        | eP | 48    | 01                | eS  | 51    | 37 | 2320  | 20.9 |
| Luganville      | 1P |       | 10.5 <sup>D</sup> |     |       |    | 2435  | 21.9 |
| Brisbane        | eP |       | 41.5              | 1S  | 53    | 04 | 2755  | 24.8 |
| Riverview       | eP |       | 42                | eS  |       | 00 | 2720  | 24.5 |
| Canberra        | eP |       | 54                | eS  |       | 17 | 2900  | 26.1 |
| Tasmanian Univ. | 1P | 49    | 05.5 <sup>C</sup> | e   |       | 48 | 3055  | 27.5 |
| Moorlands       | 1P |       | 07.3 <sup>C</sup> |     |       |    | 3065  | 27.6 |
| Tarraleah       | eP |       | 08                |     |       |    | 3120  | 28.1 |
| Savannah        | eP |       | 08                |     |       |    | 3055  | 27.5 |
| Toolangi        | eP |       | 18                | e   | 54    | 03 | 3190  | 28.7 |
| Charters Towers | 1P |       | 57.2              | 1S  | 55    | 17 | 3710  | 33.4 |
| Adélaïde        | eP | 50    | 10                |     |       |    | 3835  | 34.5 |
| Port Moresby    | eP |       | 45                |     |       |    | 4355  | 39.2 |
| Keravat         | eP |       | 49 <sup>D</sup>   |     |       |    | 4400  | 39.6 |
| Rabaul          | 1P |       | 49.5 <sup>C</sup> |     |       |    | 4400  | 39.6 |
| Warramunga      | eP | 51    | 17                |     |       |    | 4800  | 43.2 |
| Kalgoorlie      | 1P | 52    | 05.7              |     |       |    | 5500  | 49.5 |
| Darwin          | eP |       | 11                | e   | 54    | 01 | 5555  | 50.0 |
| Byrd            | eP |       | 25.3              |     |       |    | 5755  | 51.8 |
| Mundaring       | 1P |       | 34.2              |     |       |    | 5920  | 53.2 |
| Meekatharra     | 1P |       | 35.2 <sup>C</sup> |     |       |    |       |      |
| Mirny           | eP | 53    | 11                |     |       |    | 6510  | 58.6 |
| Pasadena        | eP | 56    | 10                | esp | 56    | 26 | 9845  | 88.6 |
| Priest          | eP |       | 11.5 <sup>C</sup> |     |       |    | 9835  | 88.5 |
| Jamestown       | eP |       | 16.8 <sup>D</sup> |     |       |    | 9990  | 89.9 |
| Oroville        | eP |       | 19.3              |     |       |    | 10055 | 90.5 |

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|                 |                   |                   |     |            |       |        |
|-----------------|-------------------|-------------------|-----|------------|-------|--------|
| Tucson          | eP                | 15 56 27.5        | e   | 15 56 42.6 | 10235 | 92° 1  |
| Tonto Forest    | eP                | 32.5              | es  | 16 07 48   | 10335 | 93° 0  |
| Eureka          | iP                | 33.2              |     |            | 10390 | 93° 5  |
| Arequipa        | eP                | 41.2              |     |            | 10585 | 95° 1  |
| Blue M.         | eP                | 45.4              |     |            | 10710 | 96° 4  |
| Penas           | P                 | 51.7              |     |            | 10835 | 97° 5  |
| Uinta Basin     | eP                | 52.6              |     |            | 10865 | 97° 8  |
| La Paz          | eP                | 54                |     |            | 10845 | 97° 6  |
| Gilmore Creek   | eP                | 57 07.5           |     |            | 11280 | 101° 5 |
| College         | eP                | 08                |     |            | 11265 | 101° 4 |
| Wichita M.      | eP                | 23.6              |     |            | 11300 | 101° 7 |
| Resolute        | PKP               | 16 02 06          |     |            | 13420 | 120° 8 |
| Bulawayo        | PKP               | 07                | e   | 02 20      | 13345 | 120° 1 |
| Broken Hill     | PKP               | 17                | e   | 30         | 13910 | 125° 2 |
| Nairobi         | PKP               | 20                |     |            | 14590 | 131° 3 |
| Sodankylä       | FKP               | 39                |     |            | 15900 | 143° 1 |
| Kiruna          | PKP               | 48                |     |            | 16000 | 144° 0 |
| Kevo            | PKP               | 48.2              | i   | 03 03.1    | 15680 | 141° 1 |
| Oulu            | ePKP              | 51                |     |            |       |        |
| Kajaani         | PKP               | 51.5              | i   | 02 52.7    | 16155 | 145° 4 |
| Umeå            | iPKP              | 55.9              |     |            |       |        |
| Banguí          | iPKP <sub>1</sub> | 56.7              | iPP | 06 32      |       |        |
| Akureyri        | PKP               | 57                |     |            | 16235 | 146° 1 |
| NurmiJaerwi     | PKP               | 03 00             | i   | 03 17.8    | 16555 | 149° 0 |
| Skalstugan      | iPKP              | 03.6              |     |            |       |        |
| Lamto           | PKP               | 05.8              |     |            | 16900 | 152° 1 |
| Uppsala         | PKP               | 08.5              | i   | 11.9       | 16845 | 151° 6 |
| Lillehammer     | PKP               | 10.4              |     |            | 16880 | 151° 9 |
| Niedzica        | ePKP              | 14                |     |            |       |        |
| Kongsberg       | iPKP              | 14.2              |     |            | 17045 | 153° 4 |
| Kasperské Hory  | ePKP              | 17                |     |            |       |        |
| Lanslevillard   | ePKP <sub>1</sub> | 22                | ei  | 36.3       |       |        |
| Garchy          | iPKP              | 22.2 <sup>C</sup> |     |            |       |        |
| Les Buteaux     | PKP <sub>1</sub>  | 22.4              |     |            |       |        |
| Sommée Lormes   | PKP               | 23.3              |     |            | 18480 | 166° 3 |
| St. Saulge      | PKP               | 23.3              |     |            | 18500 | 166° 5 |
| Toulx Ste Croix | PKP <sub>1</sub>  | 23.7              |     |            |       |        |
| Ifrane          | PKP               | 27.5              | e   | 28 29.5    | 19465 | 175° 2 |
| Roselend        | ePKP <sub>1</sub> | 36                |     |            |       |        |

inscrit à Wichita M.

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Samar (Philippines)

12° 3' N ; 125° 5' E ; h = 51 km ; H = 16<sup>h.00mm</sup>07.3<sup>s.</sup>(CGS)

12° 6' N ; 125° 6' E ; H = 16<sup>h.00mm</sup>07<sup>s.</sup>(URSS)

M. = 5.9(Baguio); 5.7(NurmiJaerwi); 5.5(Kajaani); 5.4(Poona); 5.3(CGS);  
4.8(College); 4.7(Gilmore Creek).

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|                 |       |                      |    |          |       |       |
|-----------------|-------|----------------------|----|----------|-------|-------|
| Davao           | iP    | 16 01 25             |    |          | 565   | 5·1   |
| Manila          | eP    | 38                   | es | 16 02 40 | 545   | 4·9   |
| Baguio          | eP    | 34·5                 | is | 50·5     | 700   | 6·3   |
| Hong Kong       | eP    | 03 40                |    |          | 1635  | 14·7  |
| Darwin          | eP    | 05 29                | e  | 09 56    | 2780  | 25·0  |
| Abuyama         | eP    | 23                   |    |          |       |       |
| Matsushiro      | P     | 06 28                | e  | 08 20    |       |       |
| Warramunga      | eP    | 33·5                 |    |          |       |       |
| Chittagong      | eP    | 45                   |    |          |       |       |
| Shillong        | iP    | 51                   |    |          |       |       |
| Charters Towers | eP    | 07 20                |    |          | 4235  | 38·1  |
| Chatra          | iP    | 29 <sup>C</sup>      | e  | 09 41    |       |       |
| Kalgoorlie      | iP    | 08 02·2              |    |          | 4780  | 43·0  |
| Madras          | eP    | 14                   |    |          |       |       |
| Brisbane        | iP    | 33·9                 | i  | 10 35    | 5280  | 47·5  |
| New Dehli       | eP    | 40                   |    |          | 5310  | 47·8  |
| Adelaide        | eP    | 56                   |    |          | 5400  | 48·6  |
| Yakoutska       | iP    | 56 <sup>C</sup>      |    |          |       |       |
| Poona           | eP    | 58·5                 |    |          | 5585  | 50·1  |
| Talgar          | eP    | 09 48                |    |          |       |       |
| Canberra        | eP    | 17                   |    |          | 5810  | 52·3  |
| Toulangi        | eP    | 21                   | e  | 03       | 589   | 53·0  |
| Warsak          | P     | 25                   |    |          |       |       |
| Garm            | eP    | 39                   |    |          |       |       |
| Tachkent        | iP    | 49 <sup>D</sup>      |    |          |       |       |
| Quetta          | eP    | 49·2 <sup>C</sup>    |    |          | 6310  | 56·8  |
| Tiksi           | iP    | 10 05 <sup>C</sup>   |    |          |       |       |
| Vannovskaya     | P     | 44                   |    |          |       |       |
| Sverdlovsk      | eP    | 52                   |    |          |       |       |
| Chiraz          | P     | 11 11                |    |          | 7665  | 69·0  |
| Tabriz          | eP    | 41·5                 |    |          | 8235  | 74·1  |
| Bakouriani      | eP    | 51·6                 |    |          |       |       |
| Palmer          | eP    | 55·3                 |    |          | 8585  | 77·1  |
| College         | eP    | 00                   |    |          | 8620  | 77·6  |
| Gilmore Creek   | eP    | 00                   |    |          | 8635  | 77·7  |
| Apatity         | eP    | 2 11                 |    |          |       |       |
| Sodankylae      | eP    | 25                   |    |          | 9135  | 82·2  |
| Kajaani         | iP    | 26·2                 | e  | 16 13 08 | 9165  | 82·5  |
| Oulu            | eP    | 28                   |    |          |       |       |
| Ksara           | iP    | 31                   |    |          |       |       |
| Jérusalem       | iP    | 35                   |    |          |       |       |
| Kiruna          | iP    | 35·7 <sup>D</sup>    |    |          |       |       |
| Nurmijaervi     | iP    | 38·1                 |    |          | 9410  | 84·7  |
| Uméa            | iP    | 40·9                 |    |          |       |       |
| Jasi            | P     | 46 <sup>D</sup>      |    |          |       |       |
| Uppsala         | iP    | 53·1                 |    |          | 9800  | 88·2  |
| Resolute        | eP    | 13 01·6 <sup>C</sup> |    |          | 9965  | 89·7  |
| Oujgorod        | eP    | 02                   |    |          |       |       |
| Niedzica        | eP    | 05·5                 |    |          |       |       |
| Blue M.         | eP    | 29·8                 |    |          | 11090 | 99·8  |
| Uinta Basin     | (PKP) | 17 58·3              |    |          | 11890 | 107·0 |

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|               |       |            |       |       |
|---------------|-------|------------|-------|-------|
| Tonto Forest  | (PKP) | 16 12 12.4 | 12110 | 109.0 |
| Cumberland Pl | PKP   | 19 02.6    | 13790 | 111.1 |
| La Paz        | PKP   | 20 12      | 18465 | 166.2 |
| Penas         | PKP   | 12.3       | 18435 | 165.9 |

XXX. 29 Janvier  
Iles Salomon

5° 28', 154° 2'E. h = 111km. H = 16<sup>h09mn00.9s</sup> (CGS)

M = 6.3 (Port Moresby), 5.3 (Poona), 5.0 (CGS, New Dehli), 4.8 (College  
4.4 (Gilmore Creek), 4.2 (Blue M).

|                 |      |           |      |          |             |
|-----------------|------|-----------|------|----------|-------------|
| Rabalanakaia    | 1P   | 16 09 37D |      |          |             |
| Wanliss Street  | 1P   | 38D       |      |          |             |
| Rabaul          | 1P   | 38        | 1S   | 16 10 04 | 255 2.3     |
| Keravat         | 1P   | 38.5D     |      |          |             |
| Esa'Ala         | 1P   | 10 25.2   | 1S   | 11 26.4  |             |
| Honiara         | 1P   | 42        | eS   | 12 08    | 790 7.1     |
| Port Moresby    | 1P   | 58        |      |          | 900 8.1     |
| Charters Towers | 1P   | 12 50C    |      |          | 1855 16.7   |
| Quannah         | 1P   | 13 21C    |      |          | 2220 20.0   |
| Nouméa          | 1P   | 34C       |      |          | 2300 20.7   |
| Brisbane        | 1P   | 48.1C     | 1D   | 17 49    | 2455 22.1   |
| Darwin          | eP   | 14 07     | e(S) | 18 23    | 2680 24.1   |
| Warramunga      | eP   | 08.5      |      |          |             |
| Riverview       | eP   | 49        |      |          | 3180 28.6   |
| Canberra        | eP   | 15 04     |      |          | 3365 30.3   |
| Adelaide        | eP   | 26.5      |      |          | 3655 32.9   |
| Toolangi        | eP   | 28        |      |          | 3690 33.2   |
| Tarfaleah       | 1P   | 16 06.9C  |      |          | 4180 37.6   |
| Tasmanian Univ. | 1P   | 10.7      |      |          | 4220 38.0   |
| Mundaring       | eP   | 17 00     |      |          | 4935 44.4   |
| Chittagong      | eP   | 19 44     |      |          |             |
| Shillong        | 1P   | 49        |      |          |             |
| Chatra          | 1P   | 20 17C    |      |          |             |
| Palmer          | eP   | 56.8      |      |          | 8835 79.5   |
| New Dehli       | 1P   | 21 05     | e    | 21 30    | 9010 81.1   |
| Gilmore Creek   | eP   | 08.5      |      |          | 9100 81.9   |
| College         | 1P   | 09        |      |          | 9090 81.8   |
| Poona           | 1P   | 12.5C     |      |          | 9165 82.5   |
| Eyrd            | eP   | 21.3      | e    | 31 46.7  | 9355 84.2   |
| Quetta          | eP   | 50.6C     |      |          | 10020 90.2  |
| Blue M.         | eP   | 22 03.8   |      |          | 10290 92.6  |
| La Paz          | ePKP | 28 03     |      |          |             |
| Penas           | PKP  | 05.7      |      |          | 14745 132.7 |
| Tamanrasset     | PKP  | 26        |      |          | 16120 145.1 |
| Ifrane          | PKP  | 29.5      | M    | 29 15    |             |

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Iles Kouriles

43° 5'N, 147° 2'E. h = 36km. H = 16<sup>h42mn50.4s</sup> (CGS)



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44°7'N, 146°4'E, h = 54 km. H = 16h43<sup>mm</sup>00S (URSS)

43°12'N, 147°10'E, h = 40 km. H = 16h42<sup>mm</sup>50S (JMA)

M = 6.4 (Kobenhavn), 6.3 (Lvov, New Delhi), 6 1/4 (Roma), 6.2 (Pruhonice, Nurmijaervi), 6.1 (URSS, Strasbourg, Resolute, Kajaani, Poona, Bensberg), 6.0 (Uppsala, Kiruna, College), 5.9 (Mt Tsukuba, Edmonton, Newport), 5.8 (Cumberland Pl, Kap Tobin, Gilmore Creek), 5.7 (CGS, JMA, Rabaul, Kevo), 5.6 (Bozeman SSS), 5.4 (Station Nord), 5.3 (Blue M, Uinta Basin, Tonto Forest), 5.2 (Wichita M), 5.0 (Albuquerque, Palmer), 4.8 (Tucson), 4.6 (Golden).

|                 |    |       |      |      |       |       |       |      |
|-----------------|----|-------|------|------|-------|-------|-------|------|
| Nemuro          | iP | 18 43 | 11.4 | iS   | 16 43 | 24.1  | 130   | 1.2  |
| Kourilsk        | iP |       | 21D  | iS   |       | 39    | 200   | 1.8  |
| Sapporo         | P  |       | 57.2 | eS   | 44 48 |       | 480   | 4.3  |
| Aomori          | iP | 44 10 |      | S    | 45 15 |       | 610   | 5.5  |
| Sendai          | eP |       | 30   | e    |       | 44.3  | 785   | 7.1  |
| Mito            | P  |       | 55   | e    | 46 27 |       | 975   | 8.8  |
| Mt Tsukuba      | iP |       | 57   | eS   |       | 33    | 1010  | 9.1  |
| Maebashi        | eP | 45 04 | 3    | S    |       | 46.6  | 1050  | 9.4  |
| Dodaira         | iP |       | 05.6 |      |       |       | 1080  | 9.7  |
| Severo Kourilsk | eP |       | 06.1 |      |       |       | 101.5 | 9.4  |
| Matsushiro      | iP |       | 08   | S    |       | 53    | 1085  | 9.8  |
| Kofu            | eP |       | 21.6 | e    | 47 04 |       | 1140  | 10.3 |
| Bladivostok     | P  |       | 30C  |      |       |       | 1240  | 11.2 |
| Abuyama         | eP |       | 43.9 |      |       |       | 1390  | 12.5 |
| Wakaura W.      | eP |       | 58   |      |       |       | 1465  | 13.2 |
| Osaka           | e  |       | 59.7 |      |       |       | 1405  | 12.6 |
| Seoul           | eP | 46 33 | 6    |      |       |       | 1835  | 16.5 |
| Magadan         | iP |       | 36C  |      |       |       | 1905  | 16.2 |
| Nagasaki        | eP |       | 50.5 | eS   | 50 34 |       | 1925  | 17.3 |
| Yakoutsk        | iP | 47 30 | C    |      |       |       | 2360  | 21.2 |
| Bodajbo         | iP | 48 09 | 5    |      |       |       | 2785  | 25.1 |
| Adak            | eP |       | 18.7 | e    | 52 43 | 6     | 2845  | 25.6 |
| Anpu            | iP |       | 37C  | e    | 54 04 |       | 3090  | 27.8 |
| Oulan Bator     | iP |       | 42   |      |       |       | 3140  | 28.3 |
| Tiksi           | iP |       | 48C  |      |       |       | 3390  | 29.6 |
| Irkoutsk        | eP |       | 52   |      |       |       | 3300  | 29.7 |
| Hong Kong       | iP | 49 38 | C    | e(S) | 55 22 |       | 3635  | 34.5 |
| Baguio          | eP |       | 42   | eS   |       | 08    | 3910  | 35.2 |
| Esen Boulak     | iP |       | 47   |      |       |       | 3965  | 35.7 |
| Sparrevohn      | iP | 50 05 | 4    |      |       |       | 4190  | 37.7 |
| Big Mountain    | eP |       | 07   |      |       |       | 4210  | 37.9 |
| Barrow          | iP |       | 11.4 |      |       |       | 4300  | 38.7 |
| Kodiak          | eP |       | 18.1 |      |       |       | 4380  | 39.4 |
| Tanana          | iP |       | 20.5 |      |       |       | 4390  | 39.5 |
| Palmer          | eP |       | 29.2 |      |       |       | 4535  | 40.8 |
| Davao           | iP |       | 30.2 | iS   | 16 56 | 35    | 4545  | 40.9 |
| College         | iP |       | 34C  | i    |       | 50 50 | 4590  | 41.3 |
| Gilmore Creek   | eP |       | 35.1 |      |       |       | 4600  | 41.4 |
| Pedro Dome      | iP |       | 35.2 |      |       |       | 4600  | 41.4 |
| Mts Sheep Creek | iP |       | 37.1 |      |       |       | 4635  | 41.7 |

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|                 |    |       |                     |     |       |      |      |      |
|-----------------|----|-------|---------------------|-----|-------|------|------|------|
| Black Rapids    | iP | 16 50 | 41.4                |     |       |      | 4690 | 42.2 |
| Semipalatinsk   | eP | 51    | 01                  |     |       |      | 4980 | 44.8 |
| Kheis           | eP |       | 18                  |     |       |      | 5255 | 47.3 |
| Rabaul          | iP |       | 25.3                | 1S  | 16 58 | 12   | 5300 | 47.7 |
| Shillong        | iP |       | 27                  |     |       |      | 5340 | 48.1 |
| Keravat         | eP |       | 28 <sup>D</sup>     |     |       |      | 5310 | 47.8 |
| Talgar          | iP |       | 39                  |     |       |      | 5480 | 49.3 |
| Chittagong      | eP |       | 41 <sup>C</sup>     |     |       |      | 5560 | 50.1 |
| Kipapa          | eP |       | 45                  |     |       |      | 5580 | 50.2 |
| Chatra          | iP |       | 49 <sup>C</sup>     | S   | 59 05 |      | 5640 | 50.7 |
| Frounze         | iP |       | 54 <sup>C</sup>     |     |       |      | 5705 | 51.3 |
| Alert           | eP | 52    | 05                  |     |       |      | 5935 | 53.4 |
| Sverdlovsk      | eP |       | 08                  |     |       |      | 5930 | 53.4 |
| Hawai Volc Obs. | eP |       | 08                  | eS  |       | 51   | 5935 | 53.4 |
| Bokaro          | i  |       | 10                  |     |       |      | 5945 | 53.5 |
| Station Nord    | iP |       | 15.1                |     |       |      | 6100 | 54.9 |
| Kingsbay        | eP |       | 17                  |     |       |      | 6120 | 55.1 |
| Resolute        | eP |       | 19                  |     |       |      | 6135 | 55.2 |
| Tachkent        | iP |       | 2.5                 |     |       |      | 6170 | 55.5 |
| Bhakra          | e  |       | 23                  |     |       |      | 6210 | 55.9 |
| Garm            | iP |       | 27.3 <sup>C</sup>   |     |       |      | 6225 | 56.0 |
| Khorog          | iP |       | 33                  |     |       |      | 6225 | 56.0 |
| New Dehli       | iP |       | 33                  | eS  | 17 00 | 24   | 6320 | 56.9 |
| Koulyab         | iP |       | 34.5 <sup>C</sup>   |     |       |      | 6335 | 57.0 |
| Lahore          | P  |       | 33                  | S   |       | 30   | 6365 | 57.3 |
| Douchambé       | iP |       | 37 <sup>C</sup>     |     |       |      | 6365 | 57.3 |
| Warsak          | P  |       | 40                  |     |       |      | 6435 | 57.9 |
| Samarkand       | iP |       | 40.5 <sup>C</sup>   |     |       |      | 6430 | 57.9 |
| Kevo            | iP |       | 47.8                | ePP | 18 55 | 04   | 6555 | 59.0 |
| Vi shakhapatnam | eP |       | 48                  |     |       |      | 6575 | 59.2 |
| Sodankylae      | eP |       | 57                  |     |       |      | 6745 | 60.7 |
| Luganville      | iP | 53    | 04.6                |     |       |      | 6835 | 61.5 |
| Edmonton        | iP |       | 05                  |     |       |      | 6845 | 61.6 |
| Kiruna          | iP |       | 07.2                |     |       |      | 6890 | 62.0 |
| Oulu            | eP |       | 10                  |     |       |      | 6950 | 62.5 |
| Nordman         | iP |       | 11.2                | 1   | 53 22 |      | 6920 | 62.3 |
| Kajaani         | iP |       | 11.6                | 1   | 30.5  |      | 6965 | 62.7 |
| Newport         | iP |       | 11.7                | 1   | 23    |      | 6945 | 62.5 |
| Corvallis       | eP |       | 13.1                |     |       |      | 6780 | 61.0 |
| Spokane         | eP |       | 13.2                |     |       |      | 6965 | 62.7 |
| Charters Towers | iP |       | 15.6                | 1S  | 45    |      | 7035 | 63.3 |
| Warramunga      | eP |       | 21.5                |     |       |      | 7135 | 64.2 |
| Hungry Horse    | eP |       | 21.6                |     |       |      | 7120 | 64.1 |
| Port Vila       | iP |       | 22.3 <sup>(C)</sup> |     |       |      | 7100 | 63.9 |
| Blue M.         | eP |       | 24.3                |     |       |      | 7155 | 64.4 |
| Madras          | eP |       | 28                  |     |       |      | 7170 | 64.5 |
| Vannovskaya     | P  |       | 28                  |     |       |      | 7175 | 64.6 |
| Uméa            | iP |       | 28.9 <sup>C</sup>   |     |       |      | 7235 | 65.1 |
| Moskva          | P  |       | 27 <sup>C</sup>     | eS  | 17 01 | 53   | 7185 | 64.7 |
| Poulkovo        | iP |       | 27 <sup>D</sup>     | eS  |       | 54   | 7205 | 64.8 |
| Mashad          | iP |       | 27 <sup>C</sup>     |     |       |      | 7180 | 64.6 |
| Oroville        | iP |       | 27.5                | 1   | 16 53 | 39.2 | 7220 | 65.0 |

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|                |      |       |       |     |            |      |      |
|----------------|------|-------|-------|-----|------------|------|------|
| Kizyl Arvat    | iP   | 16 53 | 30    | esp | 16 53 48   | 7225 | 65.0 |
| Poona          | iP   |       | 31.2C | e   | 17 02 36   | 7280 | 65.5 |
| Bombay         | iP   |       | 33    |     |            | 7335 | 66.0 |
| Nurmijaervi    | iP   |       | 35    | es  | 06         | 7365 | 66.3 |
| Kap Tobin      | iP   |       | 35.1  |     |            | 7345 | 66.1 |
| Karachi        | eP   |       | 36.6D |     |            | 7385 | 66.5 |
| Butte          | eP   |       | 36.8  | i   | 10 53 48.1 | 7365 | 66.3 |
| Ouanaham       | iP   |       | 36.9C |     |            | 7400 | 66.6 |
| Jamestown      | eP   |       | 39.3C | e   | 50.5       | 7440 | 66.7 |
| San Luis Dam   | eP   |       | 39.8  |     |            | 7410 | 66.7 |
| Priest         | e(P) |       | 42.1C | e   | 54         | 7510 | 67.6 |
| Bozeman SSS    | iP   |       | 42.2  | e   | 53         | 7455 | 67.1 |
| Skalstugan     | iP   |       | 42.4  |     |            | 7495 | 67.4 |
| Berkeley       | e(P) |       | 43.6C |     |            | 7290 | 65.6 |
| Mt Hamilton    | e(P) |       | 43.8C |     |            | 7365 | 66.3 |
| Nouméa         | iP   |       | 49.1C |     |            | 7535 | 67.8 |
| Kodaikanal     | iP   |       | 50    |     |            | 7595 | 68.3 |
| Eureka         | iP   |       | 50.7C | i   | 16 54 02.4 | 7600 | 68.4 |
| Uppsala        | iP   |       | 52.9C |     |            | 7665 | 69.0 |
| Frobisher      | iP   |       | 55D   |     |            | 7710 | 69.4 |
| Poti           | iP   |       | 59    |     |            |      |      |
| Lillehammer    | iP   |       | 59.2  |     |            | 7765 | 69.9 |
| Trivandrum     | i    | 54    | 00    | i   | 17 03 26   | 7765 | 69.9 |
| Kirovabad      | P    |       | 00    |     |            | 7785 | 70.1 |
| Téhéran        | iP   |       | 00.5C |     |            | 7800 | 70.2 |
| Salt Lake City | eP   |       | 00.6  |     |            | 7790 | 70.1 |
| Tbilisi        | P    |       | 01    |     |            | 7805 | 70.3 |
| Pasadena       | iP   |       | 03    | es  | 13         | 7835 | 70.5 |
| Akureyri       | iP   |       | 04.2  |     |            | 7845 | 70.6 |
| Brisbane       | eP   |       | 05    | i   | 58         | 7855 | 70.7 |
| Goris          | iP   |       | 07C   | is  | 20         | 7870 | 70.8 |
| Bakouriani     | iP   |       | 07.4C |     |            | 7885 | 71.0 |
| Flaming Gorge  | eP   |       | 08    |     |            | 7935 | 71.4 |
| Kongsberg      | iP   |       | 08.5  |     |            | 7945 | 71.5 |
| Uinta Basin    | eP   |       | 10.4  | es  | 27         | 7965 | 71.7 |
| Bergen         | iP   |       | 11.1  |     |            | 7990 | 71.9 |
| Tabriz         | iP   |       | 12.5  | i   | 33.2       | 7980 | 71.8 |
| Goteborg       | iP   |       | 13.2C |     |            | 8050 | 72.5 |
| Karlskrona     | iP   |       | 13.9  |     |            | 8070 | 72.6 |
| Glen Canyon    | eP   |       | 16.2  | isp | 46 54 27.5 | 8080 | 72.7 |
| Chiraz         | iP   |       | 20.2C | eL  | 17 03 40   | 8120 | 73.1 |
| Kermanshah     | eP   |       | 22.5  |     |            | 8195 | 73.8 |
| Kobenhavn      | iP   |       | 24C   |     |            | 8220 | 74.0 |
| Golden         | eP   |       | 27    | es  | 04 00      | 8265 | 74.4 |
| Kichinev       | iP   |       | 28C   | iDP | 16 54 45   | 8300 | 74.7 |
| Tonto Forest   | eP   |       | 28.8  | es  | 17 04 04.1 | 8300 | 74.7 |
| Lvov           | eP   |       | 29    | es  | 03 59      | 8295 | 74.7 |
| Jasi           | P    |       | 30D   |     |            | 8350 | 75.2 |
| Krakow         | eIP  |       | 36    | e   | 04 10      | 8455 | 76.1 |
| Oujgorod       | iP   |       | 37    | es  | 16         | 8475 | 76.3 |
| Tucson         | eP   |       | 37    | e   | 16 54 48.5 | 8480 | 76.3 |
| Chorzow        | eP   |       | 38    |     |            | 8475 | 76.3 |
| Niedzica       | iP   |       | 38    |     |            | 8495 | 76.4 |

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|                  |      |          |  |      |            |      |      |
|------------------|------|----------|--|------|------------|------|------|
| Raciborz         | iP   | 16 54 29 |  |      |            | 8525 | 76°7 |
| Vrincioaia       | P    | 39C      |  |      |            | 8505 | 76°5 |
| Rybnik           | eP   | 42       |  |      |            |      |      |
| Albuquerque      | eP   | 42C      |  | e    | 16 54 53   | 8585 | 77°1 |
| Riverview        | eB   | 42       |  | eS   | 17 04 30   | 8555 | 77°0 |
| Kalgodrlie       | iP   | 42°7     |  |      |            | 8620 | 77°6 |
| Collm            | iP   | 43°6     |  | i    | 16 54 53°6 | 8620 | 77°6 |
| Campulung        | P    | 45       |  |      |            | 8640 | 77°8 |
| Bucuresti        | P    | 47°8C    |  | L    | 17 28 -    | 8660 | 77°9 |
| Praha            | eP   | 48       |  |      |            | 8680 | 78°1 |
| Pruhonice        | iP   | 48C      |  |      |            | 8680 | 78°1 |
| Witteveen        | iP   | 49       |  |      |            | 8690 | 78°2 |
| Moxa             | iP   | 49°5     |  |      |            | 8735 | 78°6 |
| Srobarova        | eIP  | 50       |  |      |            | 8725 | 78°5 |
| Canberra         | eP   | 50       |  | iS   | 04 46      | 8720 | 78°5 |
| Bratislava       | iP   | 50°4D    |  | i    | 16 54 52°2 | 8745 | 78°7 |
| Istanbul         | iP   | 53C      |  | iS   | 04 52      | 8790 | 79°1 |
| Wien             | iP   | 53C      |  |      |            | 8785 | 78°9 |
| Istanbul Kand.   | iP   | 53°3C    |  |      |            | 8790 | 79°1 |
| Kaspersk Hory    | P    | 54C      |  |      |            | 8800 | 79°2 |
| Manhattan        | eP   | 54       |  |      |            | 8835 | 79°5 |
| Dubuque          | P    | 55°4     |  |      |            | 8880 | 79°9 |
| Bensberg         | iP   | 55°5C    |  | i    | 55 06°3    | 8855 | 79°7 |
| Erlangen         | iP   | 55°5C    |  |      |            | 8835 | 79°5 |
| Beograd          | eP   | 58°2C    |  | eS   | 17 05 16°6 | 8900 | 80°1 |
| Taunus           | iP   | 58°5     |  | i    | 16 55 08°5 | 8885 | 80°0 |
| Lawrence         | eP   | 58°7     |  |      |            | 8935 | 80°4 |
| Durham           | i(P) | 55 00    |  |      |            | 8730 | 78°6 |
| Ksara            | iP   | 01       |  | i(S) | 17 05 21   | 8980 | 80°8 |
| Sofia            | iP   | 01°8     |  | eS   | 06°6       | 8950 | 80°5 |
| Lubbock          | eP   | 02       |  | eS   | 08         | 8980 | 80°8 |
| Furstenfeldbruck | iP   | 02       |  |      |            | 8980 | 80°8 |
| Toolangi         | eP   | 02       |  | eSKS | 07         | 8965 | 80°7 |
| Uccle            | P    | 02       |  | S    | 03         | 8965 | 80°7 |
| Stuttgart        | iP   | 02°9     |  |      |            | 9000 | 81°0 |
| Karlsruhe        | eP   | 03C      |  |      |            | 9000 | 81°0 |
| Bühlerhohe       | iP   | 04°9     |  |      |            | 9045 | 81°4 |
| Ljubljana        | eP   | 05       |  |      |            | 9050 | 81°5 |
| Luxembourg       | P    | 05       |  | e    | 16 55 33   | 9020 | 71°2 |
| Strasbourg       | iP   | 06°5     |  |      |            | 9065 | 81°6 |
| Wichita M.       | eP   | 06°9     |  | eS   | 17 05 17   | 9090 | 81°8 |
| Trieste          | iP   | 07C      |  | eS   | 18         | 9110 | 82°0 |
| Welschbruch      | iP   | 07°2     |  | i    | 16 55 18   | 9100 | 81°9 |
| Paraskevi        | eIP  | 07°7C    |  |      |            | 9095 | 81°9 |
| Champ du Feu     | iP   | 07°8     |  |      |            |      |      |
| Skopje           | iP   | 08°2     |  |      |            | 9105 | 82°0 |
| Ann Arbor        | eP   | 09       |  |      |            | 9245 | 83°2 |
| Haudompré        | iP   | 10°9     |  |      |            | 9175 | 82°6 |
| Tulsa            | iP   | 12°5D    |  |      |            | 9155 | 82°4 |
| Valentia         | iP   | 13       |  |      |            | 9220 | 83°0 |
| Jérusalem        | iP   | 13       |  |      |            | 9190 | 82°7 |

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|                   |                   |                    |     |             |       |        |
|-------------------|-------------------|--------------------|-----|-------------|-------|--------|
| Ottawa            | eP                | 16 55 15           |     |             | 9290  | 83° 6  |
| Besançon          | e1P               | 15° 3              | e1  | 16 55 41° 7 | 9260  | 83° 4  |
| Folinjare         | 1P                | 17° 3              |     |             | 9310  | 83° 8  |
| St. Sauveur       | 1P                | 18                 |     |             | 9320  | 83° 9  |
| Sommée Lormes     | 1P                | 18                 |     |             | 9335  | 84° 0  |
| Brébeuf           | eP                | 19                 |     |             | 9355  | 84° 2  |
| Les Buteaux       | 1P                | 19° 2              |     |             | 9355  | 84° 2  |
| Garchy            | 1P                | 19° 4              | 1   | 30          | 9355  | 84° 2  |
| St. Saulge        | 1P                | 19° 5              |     |             | 9355  | 84° 2  |
| Gorron            | 1P                | 20                 |     |             | 9365  | 85° 3  |
| Vouglans          | e1P               | 20 <sup>C</sup>    | 1   | 30° 5       | 9360  | 84° 2  |
| Caribou           | 1P                | 21° 4              | 1sP | 32° 3       | 9410  | 84° 7  |
| Rhodes            | e1(P)             | 21° 5 <sup>C</sup> |     |             | 9225  | 83° 0  |
| Roselend          | e1P               | 21° 5              | e1! | 31° 8       | 9395  | 84° 5  |
| Athènes           | eP                | 22 <sup>C</sup>    |     |             | 9345  | 84° 1  |
| Le Pertre         | 1P                | 22° 1              |     |             | 9405  | 84° 7  |
| Lanslevillard     | e1P               | 23 <sup>C</sup>    | 1   | 33° 3       | 9420  | 84° 8  |
| l'Aquila          | e1P               | 24                 | epP | 44          | 9445  | 85° 0  |
| Monteynard        | e1P               | 25° 5              | 1   | 35° 5       | 9500  | 85° 5  |
| Toulx Ste Croix   | 1P                | 25° 8              |     |             | 9485  | 85° 4  |
| Clermont          | 1P                | 26                 | Le  | 17 25-18 00 | 9510  | 85° 6  |
| Isola             | 1P                | 26° 4              |     |             | 9520  | 85° 7  |
| Tarraleah         | eP                | 27                 |     |             | 9490  | 85° 4  |
| Berlin            | 1P                | 27° 7              | 1sP | 16 55 38° 8 | 9535  | 85° 8  |
| Monaco            | 1P                | 28                 |     |             | 9555  | 86° 0  |
| Roma              | eP                | 28° 3 <sup>D</sup> | esp | 43° 3       | 9520  | 85° 7  |
| Vamos             | eP                | 28° 5              |     |             | 9540  | 85° 9  |
| Helwan            | eP                | 29                 | 1S  | 17 06 04    | 9590  | 86° 3  |
| St. Paul en Forêt | eP                | 29° 9              |     |             | 9600  | 86° 4  |
| Moorlands         | eP                | 31                 |     |             | 9510  | 85° 6  |
| Lorgues           | 1P                | 31° 5              |     |             | 9625  | 86° 6  |
| La Mourre         | 1P                | 31° 7              |     |             | 9625  | 86° 6  |
| Morgantown        | 1P                | 33° 8 <sup>C</sup> |     |             | 9655  | 86° 9  |
| Messina           | eP                | 35                 | 1PP | 16 58 55    | 9735  | 87° 6  |
| Cumberland Pl.    | eP                | 36° 9              |     |             | 9755  | 87° 8  |
| Weston            | 1P                | 37° 2              | esp | 55 48       | 9755  | 87° 8  |
| Oak Ridge         | 1P                | 39° 5              |     |             | 9790  | 88° 1  |
| Valsamata         | e1(P)             | 40° 4 <sup>C</sup> |     |             | 9490  | 85° 4  |
| Black Rapids      | P                 | 41° 1              | S   | 17 06 25° 6 | 9865  | 88° 8  |
| Washington        | eP                | 41° 5              |     |             | 9845  | 88° 6  |
| Bagnères          | e1P               | 41° 5              |     |             | 9880  | 88° 9  |
| Tasmanian Univ.   | eP                | 43                 | e   | 16 55 53    | 9555  | 86° 0  |
| Tortosa           | eP                | 56                 |     |             | 10095 | 90° 9  |
| Toledo            | 1P                | 56 02 <sup>D</sup> | eS  | 17 06 47    | 10335 | 93° 0  |
| Sétif             | 1P                | 03 <sup>D</sup>    |     |             | 10380 | 93° 4  |
| Vista Hermosa     | 1P                | 17° 5              |     |             | 10665 | 96° 0  |
| Ifrane            | eP                | 29 <sup>C</sup>    |     |             | 11035 | 99° 3  |
| Averroes          | eP                | 33                 |     |             | 11120 | 100° 1 |
| Tamanrasset       | eP                | 58                 |     |             | 11690 | 105° 2 |
| Nairobi           | (PKP)             | 17 00 50           |     |             | 11735 | 105° 6 |
| Bangui            | 1PKP <sup>1</sup> | 01 26° 4           | 1PP | 02 01° 9    | 12630 | 113° 6 |
| Broken Hill       | PKP               | 40                 | ePP | 03 02       | 13400 | 120° 6 |

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|                   |        |                 |       |          |       |       |
|-------------------|--------|-----------------|-------|----------|-------|-------|
| Chileka           | (PKP)  | 17 01 41        | 1     | 17 02 48 | 12965 | 116°7 |
| Karoi             | PKP    | 42              | ePP   | 03 09    | 13490 | 121°4 |
| Lamto             | PKP    | 46°8            |       |          | 13835 | 124°5 |
| Bulawayo          | PKP    | 47              | ePP   | 31       | 13800 | 124°2 |
| Changalane        | PKP    | 49°1            |       |          | 13920 | 125°3 |
| Prétoria          | 1PKP   | 54 <sup>C</sup> |       |          | 14210 | 127°9 |
| Quito             | e(PKP) | 56              | eSP   | 12 50    | 13375 | 120°4 |
| Eyrd              | PKP    | 02 03°1         | e     | 13 50°2  | 14780 | 133°0 |
| Huancayo          | PKP    | 03°8            |       |          | 14645 | 131°8 |
| Butare            | iPP    | 05°3            |       |          | 12390 | 111°5 |
| La Paz            | PKP    | 11              | ePP   | 05 12    | 15535 | 139°8 |
| Penas             | PKP    | 11°3            | ePP   | 20       | 15490 | 139°4 |
| Antofagasta       | ePKP   | 20              |       |          | 15930 | 143°4 |
| Novo-Lazarevskaya | iPKP   | 23              |       |          | 16105 | 145°0 |
| Peldehue          | ePKP   | 34°4            |       |          | 16530 | 148°8 |
| Caracas           | eIPP   | 45              | eSKKS | 10 25    | 13100 | 117°9 |

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Iles Kouriles.

43°4' N ; 147°3' E ; h = 33 KM ; H = 17h.14<sup>mm</sup>06s. (CGS)  
 43°2' N ; 147°5' E ; H = 17h.14<sup>mm</sup>04s. (URSS)  
 43°19' N ; 147°14' E ; H = 17h.14<sup>mm</sup>03.8s. (JMA)

M. = 5.7 (Mt. Tsukuba) ; 5.3 (Nurmijaerwi) ; 4.6 (JMA) ; 4.5 (CGS - College) ;  
 4.2 (Uinta Basin) ; 4.1 (Wichita M. - Tonto Forest) ; 3.9 (Blue M.).

|                   |    |                      |    |            |      |      |
|-------------------|----|----------------------|----|------------|------|------|
| Nemuro            | iP | 17 14 28°8           | iS | 17 14 46°1 |      |      |
| Obihiro           | e  | 57                   |    |            |      |      |
| Urakawa           | iP | 15 02°7              | eS | 15 46      |      |      |
| Youjno-Sakhalinsk | iP | 20                   | eS | 18 24      |      |      |
| Mt. Tsukuba       | eP | 16 12°7              |    |            | 1000 | 9°0  |
| Matsushiro        | iP | 24°1                 |    |            |      |      |
| Vladivostok       | eP | 48                   |    |            |      |      |
| Bodajbo           | iP | 19 27°5              |    |            |      |      |
| Palmer            | eP | 21 45                |    |            | 4545 | 40°9 |
| College           | eP | 50                   |    |            | 4600 | 41°4 |
| Gilmore Creek     | eP | 50°9                 |    |            | 4610 | 41°5 |
| Sempalatinsk      | eP | 22 19°3              |    |            |      |      |
| Talgar            | eP | 56                   |    |            |      |      |
| Resolute          | eP | 23 36°7 <sup>D</sup> |    |            | 6145 | 55°3 |
| Garm              | eP | 44                   |    |            |      |      |
| New Dehli         | eP | 50                   |    |            | 6335 | 57°0 |
| Sodankylä         | eP | 24 12                |    |            | 6765 | 60°9 |
| Oulu              | eP | 28                   |    |            |      |      |
| Kajaani           | iP | 29°5                 |    |            | 6990 | 62°9 |
| Quetta            | iP | 34°4 <sup>C</sup>    |    |            |      |      |

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|                |    |                   |      |            |      |       |
|----------------|----|-------------------|------|------------|------|-------|
| Warramunga     | eP | 17 24 38          |      |            | 7120 | 64° 1 |
| Uméa           | 1P | 44·9              |      |            |      |       |
| Blue M.        | eP | 50·5              |      |            | 7155 | 64° 4 |
| Nurmijaerwi    | eP | 53                |      |            | 7390 | 66° 4 |
| Uppsala        | 1P | 25 09·9           |      |            |      |       |
| Bakouriani     | eP | 24·6              |      |            |      |       |
| Lillehammer    | 1P | 26·2              |      |            | 7790 | 70° 1 |
| Uinta Basin    | eP | 26·6              |      |            | 7965 | 71° 7 |
| Chiraz         | P  | 37·1              |      |            | 8135 | 73° 2 |
| Tonto Forest   | eP | 45·2              | ePcP | 17 25 56·9 | 8300 | 74° 7 |
| Oujgorod       | eP | 54                |      |            |      |       |
| Niedzica       | eP | 54                |      |            |      |       |
| Collm          | eP | 26 01             | e    | 26 11      | 8635 | 77° 7 |
| Pruhonice      | P  | 05                |      |            | 8700 | 78° 3 |
| Moxa           | eP | 06·5              |      |            | 8745 | 78° 7 |
| Kasperské Hory | P  | 10                |      |            | 8820 | 79° 4 |
| Erlangen       | eP | 12·8 <sup>D</sup> |      |            |      |       |
| Wichita M.     | eP | 25·1              |      |            | 9090 | 81° 8 |

Inscrit à Bangui.

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Région de la Nouvelle Bretagne.

H = 17h.57<sup>mn</sup>32s.; M. = 4·9(Rabaul)

|               |     |          |    |          |
|---------------|-----|----------|----|----------|
| Rabaul        | 1P  | 17 58 06 | 1S | 17 58 32 |
| Keravat       | 1P  | 07       | 1S | 34·5     |
| Sulphur Creek | 1P  | 07·9     |    |          |
| Port Moresby  | eP  | 59 26    | eS | 18 00 57 |
| Esa'Ala       | e1P | 53·6     |    |          |

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Sud de l'Alaska

59° 7 N ; 153° 2 W ; h = 131<sup>km</sup> ; H = 18h.53<sup>mn</sup>49s. (CGS)

M. = 5·2(CGS - College); 5·1(Gilmore Creek).

|                 |    |            |    |            |     |      |
|-----------------|----|------------|----|------------|-----|------|
| Big Mountain    | eP | 18 54 12·9 |    |            | 120 | 1° 1 |
| Sparrevohn      | 1P | 22         |    |            | 210 | 1° 9 |
| Kodiak          | eP | 23·2       | 1S | 18 54 47·8 | 220 | 2° 0 |
| Palmer          | eP | 33         | eS | 55 04      | 310 | 2° 8 |
| Mts Sheep Creek | eP | 44·1       |    |            | 400 | 3° 6 |
| Black Rapids    | eP | 55 06·6    |    |            | 580 | 5° 2 |
| Tanana          | eP | 12         |    |            | 620 | 5° 6 |
| College         | 1P | 13·5       |    |            | 645 | 5° 8 |
| Gilmore Creek   | eP | 15·5       |    |            | 655 | 5° 9 |
| Pedro Dome      | eP | 15·8       |    |            | 665 | 6° 0 |

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|             |    |            |  |      |       |
|-------------|----|------------|--|------|-------|
| Blue M.     | eP | 18 59 40.9 |  | 2900 | 26° 1 |
| Uinta Basin | eP | 19 00 44.8 |  | 3700 | 33° 3 |
| La Paz      | eP | 07 30      |  |      |       |

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Nouvelle Guinée.

H = 19h.03.4<sup>mn</sup>

|              |     |                   |    |          |  |
|--------------|-----|-------------------|----|----------|--|
| Goroka       | eP  | 19 03(10)         |    |          |  |
| Port Moresby | eP  | 10.5              | eS | 19 03 50 |  |
| Esa'Ala      | eIP | 30.6              | IS | 04 19.6  |  |
| Rabaul       | eP  | 40.5 <sup>D</sup> |    |          |  |
| Keravat      | eP  | 42.5 <sup>D</sup> |    |          |  |
| Warramunga   | eP  | 06 43             |    |          |  |
| Brisbane     | IP  | 07 08             |    |          |  |

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Iles Kouriles

43° 3' N ; 147° 3' E ; h = 33<sup>km</sup> ; H = 19h.39<sup>mn</sup>18<sup>s</sup>. (CGS)  
 43° 4' N ; 147° 6' E ; H = 19h.39<sup>mn</sup>18<sup>s</sup>. (URSS)  
 43° 16' N ; 147° 49' E ; h = 60<sup>km</sup> ; H = 19h.39<sup>mn</sup>15.5<sup>s</sup>. (JMA)

M. = 5.1(NurmiJaerwi) ; 4.8(College) ; 4.7(JMA) ; 4.6(Shillong) ;  
 4.5(CGS) ; 4.3(Wichita P.) ; 4.1(Tonto Forest) ; 4.0(URSS - Blue M.)

|                  |    |                   |    |          |            |
|------------------|----|-------------------|----|----------|------------|
| Nemuro           | eP | 19 39 42          | eS | 19 39 59 |            |
| Kushiro          | eP | 56                | eS | 40 23    |            |
| Urakawa          | P  | 40 16             | eS | 59       |            |
| Youno_Sakhalinsk | eP | 32                | eS | 41 32    |            |
| Matsushiro       | P  | 41 36             | S  | 43 23    |            |
| Vladivostok      | eP | 42 02             | eS | 44 12    |            |
| College          | IP | 47 03             |    |          |            |
| Shillong         | IP | 51                |    |          | 4600 41° 4 |
| Talgar           | IP | 48 09             |    |          | 5355 48° 2 |
| Chatra           | IP | 19 <sup>D</sup>   |    |          |            |
| Resolute         | eP | 49.4 <sup>C</sup> |    |          |            |
| Garm             | eP | 57                |    |          | 6145 55° 3 |
| New Dehli        | eP | 49 03             |    |          |            |
| Sodankylä        | eP | 27                |    |          | 6335 57° 0 |
| Edmonton         | eP | 34                |    |          |            |
| Kiruna           | eP | 37                |    |          | 6845 61° 6 |
| Newport          | eP | 39                |    |          |            |
| Nordman          | eP | 39                |    |          | 6945 62° 5 |
| Kajaani          | eP | 41                |    |          | 6935 62° 4 |
| Oulu             | eP | 41                |    |          | 6990 62° 9 |
| Warramunga       | eP | 50.5              |    |          |            |
| Blue M.          | eP | 53.4              |    |          | 7120 64° 1 |
| Uméa             | IP | 57 <sup>C</sup>   |    |          | 7155 64° 4 |



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|                   |                   |                   |                |      |      |
|-------------------|-------------------|-------------------|----------------|------|------|
| Nurmijaerwi       | eP                | 19 50 04          |                | 7390 | 66°5 |
| Eureka            | eP                | 19                |                | 7610 | 68°5 |
| Uppsala           | 1P                | 21.8              |                |      |      |
| Lillehammer       | 1P                | 23.6              |                | 7790 | 70°1 |
| Kirovabad         | eP                | 30                |                |      |      |
| Bakouriani        | eP                | 36.7              |                |      |      |
| Glamis            | P                 | 48                | e 19 50 59     | 8145 | 73°3 |
| Chiraz            | eP                | 50                |                | 8135 | 73°2 |
| Tonto Forest      | eP                | 57                | e(PCP) 51 08.1 | 8300 | 74°7 |
| Oujgorod          | eP                | 51 06             |                |      |      |
| Niedzica          | eP                | 07                |                |      |      |
| Collm             | eP                | 13                |                | 8635 | 77°7 |
| Pruhonice         | P                 | 17                |                | 8700 | 78°3 |
| Moxa              | eP                | 20                |                | 8755 | 78°8 |
| Kasperské Hory    | P                 | 23                |                | 8820 | 79°4 |
| Erlangen          | eP                | 25.1 <sup>D</sup> |                |      |      |
| Wichita M.        | eP                | 36.2              |                | 9090 | 81°8 |
| Sommée Lormes     | eP                | 47.6              |                | 9355 | 84°2 |
| St. Saulge        | eP                | 49.2              |                | 9380 | 84°4 |
| Les Biteaux       | eP                | 49.3              |                |      |      |
| Toulx Ste Croix   | eP                | 55                |                |      |      |
| Novo-Lazarevskaya | ePKP <sub>1</sub> | 58 52             |                |      |      |

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Iles Kouriles.

43° 4' N ; 147° 3' E ; h = 33<sup>km</sup> ; H = 20h.44<sup>mn</sup>06<sup>s</sup>. (CGS)  
 43° 2' N ; 147° 3' E ; H = 20h.44<sup>mn</sup>05<sup>s</sup>. (URSS)

M. = 5.1(Kajaani - Nurmijaerwi) ; 4.5(CGS) ; 4.4(Wichita M.) ; 4.3(URSS -  
 Uinta Basin) ; 4.2(Tonto Forest) ; 4.1(Blue M.).

|                   |    |                   |            |      |      |
|-------------------|----|-------------------|------------|------|------|
| Youjno_Sakhalinsk | eP | 20 45 20          |            |      |      |
| Matsushiro        | P  | 46 21             | S 20 48 09 |      |      |
| Vladivostok       | eP | 47                | eS 50      |      |      |
| Shiraki           | eP | 47 29.3           |            | 1600 | 14°4 |
| College           | eP | 51 49.6           |            | 4590 | 41°3 |
| Sempalatinsk      | P  | 52 19.1           |            |      |      |
| Shillong          | eP | 43                |            | 5345 | 48°1 |
| Chatra            | e  | 53 05             | i 56 09    |      |      |
| Sverdlovsk        | eP | 28                |            |      |      |
| Resolute          | eP | 36.9 <sup>C</sup> |            | 6145 | 55°3 |
| Garm              | eP | 44                |            |      |      |
| New Dehli         | eP | 49                |            |      |      |
| Kevo              | eP | 54 04             |            | 6565 | 59°1 |
| Sodankylä         | eP | 16                |            | 6755 | 60°8 |
| Edmonton          | eP | 22                |            | 6845 | 61°6 |
| Kiruna            | 1P | 24.9 <sup>C</sup> |            |      |      |
| Nordman           | eP | 27                |            | 6935 | 62°4 |
| Oulu              | eP | 28                |            |      |      |
| Newport           | eP | 28                |            | 6945 | 62°5 |
| Kajaani           | 1P | 29.5              |            | 6980 | 62°8 |

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|                |    |                   |        |          |      |      |
|----------------|----|-------------------|--------|----------|------|------|
| Warramunga     | eP | 20 54 34          |        |          | 7135 | 64°2 |
| Quetta         | eP | 34°4 <sup>D</sup> |        |          | 7035 | 63°8 |
| Blue M.        | eP | 40°7              |        |          | 7155 | 64°4 |
| Moskva         | eP | 45                |        |          |      |      |
| Umeá           | iP | 45°1              |        |          |      |      |
| Nurmijaerwi    | iP | 52°8              |        |          | 7380 | 66°4 |
| Bozeman SSS    | eP | 58°5              |        |          | 7455 | 67°1 |
| Woody          | eP | 55 09             | 1      | 20 55 13 | 7665 | 69°0 |
| Uppsala        | iP | 09°8              |        |          |      |      |
| Frobisher      | eP | 11°6 <sup>D</sup> |        |          | 7720 | 69°5 |
| Lillehammer    | iP | 16                |        |          | 7780 | 70°0 |
| Bakouriani     | P  | 23°7              |        |          |      |      |
| Uinta Basin    | eP | 25°8              | ePcP   | 37°1     | 7965 | 71°7 |
| Raciborz       | e  | 29                |        |          |      |      |
| Chiraz         | P  | 36°9              |        |          | 8120 | 73°1 |
| Tonto Forest   | eP | 44°9              | e(PcP) | 56 00°0  | 8300 | 74°7 |
| Niedzica       | eP | 54                |        |          |      |      |
| Krakow         | eP | 54°3              |        |          |      |      |
| Oujgorod       | eP | 57                |        |          |      |      |
| Collm          | eP | 56 00             |        |          | 8620 | 77°6 |
| Pruhonice      | P  | 04                |        |          | 8690 | 78°2 |
| Moxa           | eP | 07                |        |          | 8745 | 78°7 |
| Kasperské Hory | P  | 10                |        |          | 8810 | 79°3 |
| Erlangen       | eP | 12                |        |          |      |      |
| Wichita M.     | eP | 23°1              |        |          | 9090 | 81°8 |
| Cumberland Pl. | eP | 52°9              |        |          | 9755 | 87°8 |

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Région de l'Ile Kodiak

56°4 N ; 153°6 W ; h = 6 km ; H = 20h.52<sup>mn</sup>21.3<sup>s</sup>.(CGS)  
 57°0 N ; 154°0 W ; H = 20h.52<sup>mn</sup>28<sup>s</sup>.(URSS)

M. = 5.8(Gilmore Creek); 5.7(URSS - College - Bensberg); 5.6(Godhavn);  
 5.5(Roma - Strasbourg - Nurmijaerwi); 5.4(Longmire - Kevo - Port  
 Moresby); 5.3(Newport - Eureka - Tonto Forest); 5.2(CGS -  
 Uinta Basin); 5.1(Alert); 5.0-5.6(Moxa); 5.0(Wichita M.);  
 4.9(Bozeman SSS); 4.7(Albuquerque); 4.6(Cumberland Pl.); 4.3(Golden);  
 3.5(Blue M.).

|                 |    |                         |     |          |      |      |
|-----------------|----|-------------------------|-----|----------|------|------|
| Kodiak          | iP | 20 52 50°4 <sup>C</sup> |     |          | 165  | 1°5  |
| Big Mountain    | iP | 53 13°5                 |     |          | 345  | 3°1  |
| Sparrevohn      | iP | 37°3                    |     |          | 535  | 4°8  |
| Palmer          | eP | 47                      | eLG | 20 55 33 | 635  | 5°7  |
| Mts Sheep Creek | iP | 56                      |     |          | 700  | 6°3  |
| Black Rapids    | iP | 54 21°5                 |     |          | 990  | 8°1  |
| Gilmore Creek   | eP | 34°3                    | eLG | 57 10    | 1010 | 9°1  |
| College         | iP | 34°3                    | eS  | 56 27    | 1000 | 9°0  |
| Pedro Dome      | eP | 35                      |     |          | 1010 | 9°1  |
| Bitka           | eP | 43                      |     |          | 1110 | 10°0 |

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|                   |    |       |                   |      |         |      |      |      |
|-------------------|----|-------|-------------------|------|---------|------|------|------|
| Bjorka            | eP | 20 54 | 43·5              |      |         |      | 1100 | 9·9  |
| Adak              | eP | 55    | 44·1              | e(S) | 20 58   | 36·4 | 1580 | 14·2 |
| Barrow            | 1P | 56    | 02·4              |      |         |      | 1665 | 15·0 |
| Seattle           | eP | 57    | 10                |      |         |      | 2335 | 21·0 |
| Longmire          | eP |       | 15·5              |      |         |      | 2420 | 21·8 |
| Corvallis         | eP |       | 22                | eS   | 21 01   | 32   | 2490 | 22·4 |
| Hungry Horse      | eP |       | 27                |      |         |      | 2790 | 25·1 |
| Edmonton          | eP |       | 30                |      |         |      | 2565 | 23·1 |
| Nordman           | eP |       | 32                |      |         |      | 2600 | 23·4 |
| Newport           | eP |       | 33·2              |      |         |      | 2610 | 23·5 |
| Spokane           | 1P |       | 35 <sup>C</sup>   |      |         |      | 2620 | 23·6 |
| Blue M.           | eP |       | 51                |      |         |      | 2620 | 25·4 |
| Oroville          | 1P | 58    | 03·7              |      |         |      | 2990 | 26·9 |
| Butte             | eP |       | 08·3              | eS   | 02 55·6 |      | 3035 | 27·3 |
| Petropavlovsk     | eP |       | 10                | eS   |         | 44   | 3040 | 27·4 |
| Bozeman SSS       | eP |       | 14·5              | eS   | 03 00   |      | 3120 | 28·1 |
| Jamestown         | eP |       | 20·9 <sup>D</sup> |      |         |      | 3190 | 28·7 |
| Magadan           | eP |       | 23                |      |         |      | 3215 | 28·9 |
| Eureka            | eP |       | 31·8              |      |         |      | 3320 | 29·9 |
| Priest            | eP |       | 32·8 <sup>D</sup> |      |         |      | 3335 | 30·0 |
| Flaming Gorge     | eP |       | 52·2              |      |         |      | 3600 | 32·4 |
| Uinta Basin       | eP |       | 55·8              | eS   | 04 13·8 |      | 3635 | 32·7 |
| Pasadena          | 1P |       | 57                | eS   |         | 12   | 3645 | 32·8 |
| Tiksi             | 1P | 59    | 07 <sup>C</sup>   |      |         |      | 3610 | 34·3 |
| Glen Canyon       | eP |       | 07·6              |      |         |      | 3780 | 34·0 |
| Alert             | eP |       | 12·6              |      |         |      | 3655 | 34·7 |
| Golden            | eP |       | 20·5              | eS   |         | 54   | 3935 | 35·4 |
| Boulder City      | eP |       | 26                | e    |         | 35   | 3680 | 33·1 |
| Tonto Forest      | eP |       | 26·8              | eS   | 05 12·4 |      | 4020 | 36·2 |
| Yakoutsik         | 1P |       | 36 <sup>C</sup>   |      |         |      | 4165 | 37·5 |
| Tucson            | eP |       | 41·5              | eS   |         | 36   | 4220 | 38·0 |
| Albuquerque       | eP |       | 44·4              | e    | 01 57   |      | 4255 | 38·3 |
| Youjno_Sakhalinsk | eP |       | 51                | eS   | 05 47   |      | 4355 | 39·2 |
| Frobisher         | eP |       | 58                |      |         |      | 4445 | 40·0 |
| Station Nord      | eP | 21 00 | 01                |      |         |      | 4480 | 40·3 |
| Manhattan         | eP |       | 04                |      |         |      | 4520 | 40·7 |
| Lawrence          | eP |       | 11·2              |      |         |      | 4620 | 41·6 |
| Kheis             | eP |       | 14                |      |         |      | 4675 | 42·1 |
| Godhavn           | 1P |       | 15·9              | 1    | 06 52   |      | 4680 | 42·1 |
| Wichita M.        | eP |       | 20·2              | eS   |         | 46·8 | 4755 | 42·8 |
| Bodajbo           | 1P |       | 48·5              |      |         |      | 5145 | 46·3 |
| Vladivostok       | P  |       | 58 <sup>C</sup>   |      |         |      | 5285 | 47·6 |
| Brébeuf           | eP | 01 07 |                   |      |         |      | 5410 | 48·7 |
| Matsushiro        | 1P |       | 07·7              | S    | 08 20   |      | 5420 | 48·8 |
| Ottawa            | eP |       | 12                |      |         |      | 5300 | 47·7 |
| Cumberland Pl.    | eP |       | 12·1              |      |         |      | 5480 | 49·3 |
| Caribou           | 1P |       | 20·6              |      |         |      | 5610 | 50·5 |
| Berlin            | eP |       | 27                |      |         |      | 5620 | 50·6 |
| Abuyama           | 1P |       | 28·9              |      |         |      | 5720 | 51·5 |
| Weston            | 1P |       | 33·4              |      |         |      | 5790 | 52·1 |
| Palisades         | eP |       | 40                | eS   |         | 51   | 5755 | 51·8 |
| Shiraki           | eP |       | 42·3              |      |         |      | 5920 | 53·3 |

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|                  |      |                   |    |          |      |      |
|------------------|------|-------------------|----|----------|------|------|
| Aku reyri        | eP   | 21 01 47          |    |          | 5955 | 53°6 |
| Irkoutsk         | P    | 48                |    |          | 6030 | 54°3 |
| Kirkenes         | eP   | 48                |    |          | 6010 | 54°1 |
| Kevo             | iP   | 48°2              | eS | 21 09 24 | 6010 | 54°1 |
| Oulan_Bator      | iP   | 02 00             |    |          | 6285 | 56°4 |
| Kiruna           | iP   | 01°9              |    |          | 6220 | 56°0 |
| Apatity          | iP   | 03 <sup>C</sup>   |    |          | 6250 | 56°3 |
| Nat. Univ.Mexico | 1(P) | 04                | iS | 40       | 6070 | 54°6 |
| Sodankylä        | eP   | 05                |    |          | 6280 | 56°5 |
| Vista Hermosa    | iP   | 15                |    |          | 6410 | 57°7 |
| Oulu             | iP   | 23°3              |    |          | 6540 | 58°8 |
| Skalstugan       | iP   | 29                |    |          | 6650 | 59°9 |
| Kajaani          | iP   | 29°2              | i  | 03 13    | 6645 | 59°8 |
| Uméa             | iP   | 29°2              |    |          | 6670 | 60°0 |
| Lillehammer      | iP   | 45                |    |          | 6910 | 62°2 |
| Nurmijaerwi      | iP   | 52°8              | eS | 11 20    | 7045 | 63°4 |
| Kongsberg        | iP   | 53°9              |    |          | 7055 | 63°5 |
| Sverdlovsk       | iP   | 58 <sup>C</sup>   |    |          | 7090 | 63°8 |
| Uppsala          | eIP  | 58°2              |    |          | 7100 | 63°9 |
| La Palma         | eIP  | 58°7              |    |          | 7120 | 64°1 |
| Poulkovo         | eP   | 58                |    |          | 7125 | 64°1 |
| Semipalatinsk    | eP   | 03 00°5           |    |          | 7180 | 64°6 |
| Göteborg         | iP   | 07°7              |    |          | 7295 | 65°7 |
| Moskva           | eP   | 23 <sup>C</sup>   |    |          | 7540 | 67°8 |
| Bensberg         | eP   | 46°5              | e  | 03 54°5  | 7980 | 71°8 |
| Collm            | eP   | 47                | e  | 54       | 8010 | 72°1 |
| Talgar           | iP   | 47 <sup>C</sup>   | eS | 13 06    | 7980 | 71°8 |
| Moxa             | eP   | 50°8 <sup>C</sup> | eS | 18       | 8065 | 72°6 |
| Folinière        | eP   | 52°5              |    |          | 8090 | 73°8 |
| St. Sauveur      | eP   | 52°8              |    |          | 8120 | 73°1 |
| Hong_Kong        | eP   | 53                |    |          | 8100 | 72°9 |
| Gorron           | eP   | 54°4              |    |          | 8120 | 73°1 |
| Frounze          | iP   | 55 <sup>C</sup>   |    |          | 8125 | 73°1 |
| Luxembourg       | P    | 56                |    |          | 8110 | 73°0 |
| Praha            | eP   | 56                |    |          | 8155 | 73°4 |
| Le Pertre        | eIP  | 56°1              |    |          | 8160 | 73°4 |
| Pruhonice        | P    | 56°5              |    |          | 8165 | 73°5 |
| Erlangen         | eP   | 56°8              |    |          | 8170 | 73°5 |
| Strasbourg       | eP   | 04 00             | eL | 21 28 -  |      |      |
| Kasperské Hory   | P    | 00                |    |          | 8255 | 74°3 |
| Krakow           | eP   | 00°3              |    |          | 8200 | 73°8 |
| Champ du Feu     | eIP  | 01°8              |    |          | 8260 | 74°4 |
| Niedzica         | eP   | 02                |    |          | 8270 | 74°4 |
| Welschbruch      | eIP  | 02                |    |          | 8260 | 74°4 |
| Haudompré        | eIP  | 03°1              |    |          | 8290 | 74°6 |
| Garchy           | iP   | 03°7 <sup>C</sup> |    |          | 8315 | 74°8 |
| Fürstenfeldbruck | e    | 05                |    |          | 8335 | 75°0 |
| Sommeé Lormes    | eP   | 05°1              |    |          | 8335 | 75°0 |
| St. Saulge       | eP   | 05°1              |    |          | 8345 | 75°1 |
| Oujgorod         | eP   | 06                |    |          | 8365 | 75°3 |
| Les Buteaux      | eIP  | 06°4              |    |          | 8365 | 75°3 |

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|                  |       |         |       |      |               |      |       |       |
|------------------|-------|---------|-------|------|---------------|------|-------|-------|
| Bratislava       | eIP   | 21 04   | 08.8  | ei   | 21 04         | 17.8 | 8390  | 75.5  |
| Toulx Ste Croix  | eIP   |         | 08.9  |      |               |      | 8410  | 75.7  |
| Tachkent         | eP    |         | 11D   | iS   | 13 55         |      | 8455  | 76.1  |
| Vouglans         | eP    |         | 12    | ei   | 04 20.3       |      | 8455  | 76.1  |
| Kichinev         | iP    |         | 16C   |      |               |      | 8550  | 76.9  |
| Roselend         | eIP   |         | 16.6  |      |               |      | 8550  | 76.9  |
| Lanslevillard    | eP    |         | 20    | ei   | 29.1          |      | 8595  | 77.4  |
| Trieste          | eP    |         | 20C   | eS   | 14 12         |      | 8635  | 77.7  |
| Garm             | eP    |         | 22    |      |               |      | 8660  | 77.9  |
| Porto            | eP    |         | 24C   | eS   | 26            |      | 8700  | 78.3  |
| Samarkand        | P     |         | 24C   | eS   | 26            |      | 8700  | 78.3  |
| Isola            | iP    |         | 24.8  |      |               |      | 8710  | 78.4  |
| Davao            | iP    |         | 28    |      |               |      | 8790  | 79.1  |
| Campulung        | P     |         | 27C   |      |               |      | 8745  | 78.7  |
| Douchambé        | iP    |         | 27C   |      |               |      | 8755  | 78.8  |
| Clermont         | iP    |         | 27.5  | Le   | 21 35 - 21 55 |      | 8485  | 76.3  |
| St Paul en Foret | eIP   |         | 28.4  |      |               |      | 8780  | 79.0  |
| Lorgues          | eIP   |         | 29.1  |      |               |      | 8790  | 79.1  |
| La Murre         | eIP   |         | 29.7  |      |               |      | 8800  | 79.2  |
| Toledo           | iP    |         | 37.2C | eS   | 14 48         |      | 8965  | 80.7  |
| L'Aquila         | eP    |         | 38    | eS   | 48            |      | 9000  | 81.0  |
| Tbilisi          | P     |         | 38    |      |               |      | 9000  | 81.0  |
| Sofia            | eP    |         | 38.6  |      |               |      | 9030  | 81.3  |
| Roma             | eP    |         | 39.3C | eS   | 48.3          |      | 9035  | 81.3  |
| Bakouriani       | eP    |         | 39.7  |      |               |      | 9020  | 81.2  |
| Port Moresby     | iP    |         | 42.8  |      |               |      | 9080  | 81.7  |
| Skopje           | eP    |         | 43    |      |               |      | 9100  | 81.9  |
| Kirovabad        | eP    |         | 43    |      |               |      | 9095  | 81.9  |
| Vannovskaya      | P     |         | 48    |      |               |      | 9135  | 82.2  |
| Istanbul Uti     | iP    |         | 48    |      |               |      | 9210  | 82.9  |
| Goris            | iP    |         | 49C   |      |               |      | 9220  | 85.0  |
| Lahore           | eP    |         | 51    | eS   | 15 11         |      | 9270  | 84.4  |
| Mashad           | iP    |         | 51.6  |      |               |      | 9265  | 83.4  |
| Quito            | (P)   |         | 52    | SKS  | 14 56         |      | 9070  | 81.6  |
| Tabriz           | eP    |         | 56    | e    | 15 21         |      | 9380  | 84.4  |
| New Dehli        | eP    |         | 58    | e    | 19            |      | 9435  | 84.9  |
| Koumac           | iP    |         | 58C   |      |               |      | 9390  | 84.5  |
| Téhéran          | eP    | 05 02   |       |      |               |      | 9535  | 85.8  |
| Nouméa           | iP    |         | 02.1C |      |               |      | 9490  | 85.4  |
| Athènes          | eP    |         | 02.8C |      |               |      | 9545  | 85.9  |
| Bokaro           | iP    |         | 04    |      |               |      | 9525  | 85.7  |
| Ifrane           | P     |         | 06C   |      |               |      | 9610  | 86.5  |
| Quetta           | eP    |         | 09.1C |      |               |      | 9680  | 87.1  |
| Rhodes           | eP    |         | 11.5  |      |               |      | 9725  | 87.5  |
| Vamos            | eP    |         | 18    |      |               |      | 9835  | 86.5  |
| Charters Towers  | eP    |         | 28    | iSKS | 16 28         |      | 10155 | 94.4  |
| Chiraz           | P     |         | 29.1C |      |               |      | 10135 | 91.2  |
| Brisbane         | eP    |         | 45    | e    | 35            |      | 10555 | 95.0  |
| Poona            | eP    |         | 47    |      |               |      | 10600 | 95.4  |
| Bombay           | eP    |         | 49    |      |               |      | 10605 | 95.5  |
| Bangui           | iFLP1 | 11 08.7 |       | iPP  | 12 20.4       |      | 13235 | 119.1 |
| Nairobi          | PKP   |         | 23    |      |               |      | 13810 | 124.4 |
| Broken Hill      | PKP   |         | 53    | eSKP | 14 38         |      | 15345 | 138.1 |
| Karoi            | PKP   |         | 55    |      |               |      | 15600 | 140.4 |

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|            |       |          |       |       |
|------------|-------|----------|-------|-------|
| Bulawayo   | PKP   | 21 41 55 | 15965 | 143.7 |
| Windhoek   | PKP   | 12 00    | 16165 | 145.5 |
| Chileka    | (PKP) | 05       | 15420 | 138.8 |
| Mirny      | PKP   | 07       | 16465 | 148.2 |
| Changalane | PKP   | 11       | 16620 | 149.6 |
| Pretoria   | 1PKP2 | 11.5D    | 16595 | 149.3 |
| Afiamalu   | eS    | 13.3 -   | 7965  | 71.7  |
| Byrd       | ePP   | 14 31.3  | 15285 | 137.6 |

inscrit à Pavla, Ponta Delgada, Uccle, Berkeley, Chatra.

XXXIX. 29 Janvier  
Région de l'île Kodiak

56°5'N, 153°3'W, h = 19km, H = 21<sup>h</sup>11<sup>mn</sup>33.1<sup>s</sup> (CGS)

56°8'N, 154°0'W, H = 21<sup>h</sup>11<sup>mn</sup>39<sup>s</sup> (URSS)

M = 5.4 (Nurmijaervi), 5.3 (Kajaani), 4.6 (CGS), 4.5 (Uinta Basin),  
4.4 (Station Nord), 4.3 (Tonto Forest, Blue M), 4.1 (Wichita M).

|                 |    |            |      |      |
|-----------------|----|------------|------|------|
| Kodiak          | 1P | 21 12 02.2 | 145  | 1.3  |
| Big Mountain    | 1P | 25.7       | 345  | 3.1  |
| Sparrevohn      | 1P | 49.6       | 535  | 4.8  |
| Palmer          | eP | 59         | 620  | 5.6  |
| Mts Sheep Creek | 1P | 13 08.1    | 690  | 6.2  |
| Black Rapids    | eP | 34         | 890  | 8.0  |
| College         | 1P | 44.2       | 990  | 8.9  |
| Pedro Dome      | eP | 47         | 1000 | 9.0  |
| Gilmore Creek   | eP | 48.2       | 4000 | 9.0  |
| Edmonton        | eP | 16 41      | 2555 | 23.0 |
| Nordman         | eP | 43         | 2580 | 23.2 |
| Newport         | eP | 44         | 2590 | 23.3 |
| Blue M.         | eP | 17 03.4    | 2810 | 25.3 |
| Resolute        | eP | 31         | 3155 | 28.4 |
| Uinta Basin     | eP | 18 07.9    | 3620 | 32.6 |
| Pasadena        | 1P | 08         | 3635 | 32.7 |
| Alert           | eP | 12         | 3845 | 34.6 |
| Tiksi           | 1P | 20D        |      |      |
| Tonto Forest    | eP | 38.6       | 4010 | 36.1 |
| Yakouts k       | 1P | 40C        |      |      |
| Tucson          | eP | 53.8       | 4210 | 37.9 |
| Frobisher       | eP | 19 10      | 4435 | 39.9 |
| Station Nord    | 1P | 12.8C      | 4465 | 40.2 |
| Wichita M.      | eP | 32.4       | 4510 | 42.6 |
| Bodajbo         | 1P | 20 01C     |      |      |
| Cumberland Pl   | eP | 24.1       | 5465 | 49.2 |
| Kevo            | 1P | 57 -       | 6010 | 54.1 |
| Kiruna          | 1P | 21 13.6    |      |      |
| Apatity         | 1P | 16D        |      |      |
| Sodankylae      | eP | 18         | 6280 | 56.5 |
| Oulu            | 1P | 33.3       |      |      |
| Umeå            | 1P | 41.2       |      |      |
| Skalstugan      | 1P | 41.2       |      |      |

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|                 |                   |       |                   |                         |      |      |
|-----------------|-------------------|-------|-------------------|-------------------------|------|------|
| Kajaani         | iP                | 21 21 | 41.5              |                         | 6645 | 59.8 |
| Nurmijaervi     | iP                | 22    | 04.9              |                         | 7035 | 63.3 |
| Uppsala         | iP                |       | 07.1              |                         |      |      |
| Sverdlovsk      | EP                |       | 08                |                         |      |      |
| Talgar          | eP                |       | 58                |                         |      |      |
| Collm           | eP                |       | 59                |                         | 8000 | 72.0 |
| Moxa            | eP                | 23    | 02.5              |                         | 8055 | 72.5 |
| Pruhonice       | P                 |       | 09                |                         | 8155 | 73.4 |
| Kasperské Hory  | P                 |       | 13                |                         | 8245 | 74.2 |
| Raciborz        | eP                |       | 13.5              |                         |      |      |
| Sommée Lormes   | eP                |       | 16.3              |                         | 8320 | 74.9 |
| St Saulge       | eP                |       | 17.6              |                         | 8335 | 75.0 |
| Les Buteaux     | eIP               |       | 17.9              |                         |      |      |
| Oujgorod        | eP                |       | 20 <sup>D</sup>   |                         |      |      |
| Toulx Ste Croix | eIP               |       | 20.5              |                         |      |      |
| Isola           | iP                |       | 36.9              |                         | 8700 | 78.3 |
| Pretoria        | iPKP <sub>2</sub> | 31    | 23.5 <sup>C</sup> |                         |      |      |
| Bangui          | iPKP <sub>1</sub> |       | 39.4              | iPKP <sub>1</sub> 21 31 |      | 50.1 |

inscrit à M<sup>l</sup>Bour.

XL. 29 janvier  
Iles Kouriles

43° 0' N, 147° 2' E. h = 33 km. H = 22<sup>h</sup> 27<sup>mn</sup> 34<sup>s</sup> (CGS)

42° 2' N, 146° 9' E. H = 22<sup>h</sup> 27<sup>mn</sup> 32<sup>s</sup> (URSS)

43° 0' 1' N, 147° 29' E. h = 40 km. H = 22<sup>h</sup> 27<sup>mn</sup> 33.8<sup>s</sup> (JMA)

M = 5.2 (Nurmijaervi), 4.7 (College), 4.5 (CGS, JMA), 4.4 (Uinta Basin), 4.1 (Tonto Forest, Wichita M)

|               |    |       |                   |        |         |           |
|---------------|----|-------|-------------------|--------|---------|-----------|
| Nemuro        | iP | 22 27 | 58.7              | eS     | 22 28   | 16        |
| Kushiro       | eP | 28    | 10                | S      |         | 36.4      |
| Urakawa       | P  |       | 31                | S      | 29      | 14        |
| Matsushiro    | P  | 29    | 51                | e      | 31      | 36        |
| Vladivostok   | eP | 30    | 10                | eS     | 32      | 15        |
| College       | eP | 35    | 23                |        |         | 4635 41.7 |
| Semipalatinsk | P  |       | 50                |        |         |           |
| Resolute      | eP | 37    | 07 <sup>D</sup>   |        |         | 6190 55.7 |
| Kevo          | eP |       | 38                | i      | 37      | 45.8      |
| Sodankylae    | P  |       | 47                |        |         | 6800 61.2 |
| Oulu          | iP |       | 58                |        |         |           |
| Kajaani       | iP | 38    | 00                |        |         | 7010 63.1 |
| Warramunga    | eP |       | 05                |        |         | 7090 63.8 |
| Blue M.       | eP |       | 10.6              |        |         | 7190 64.7 |
| Uméa          | iP |       | 15.1 <sup>C</sup> |        |         |           |
| Nurmijaervi   | iP |       | 23.2              |        |         | 7410 66.7 |
| Semipalatinsk | iP |       | 23.2              |        |         |           |
| Bozeman SES   | eP |       | 27                |        |         | 7490 67.4 |
| Uppsala       | eP |       | 40                |        |         |           |
| Lillehammer   | iP |       | 45.6              |        |         | 7820 70.4 |
| Bakouriani    | eP |       | 54                |        |         |           |
| Uinta Basin   | eP |       | 56.8              |        |         | 7990 71.9 |
| Tonto Forest  | eP | 39    | 14.5              | e(PCP) | 39 25.0 | 8320 74.9 |

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|                |    |          |      |      |
|----------------|----|----------|------|------|
| Collm          | eP | 22 39 33 | 8665 | 73°0 |
| Pruhonice      | eP | 36       | 8735 | 78°6 |
| Kasperské Hory | P  | 40       | 8845 | 79°6 |
| Erlangen       | eP | 41       |      |      |
| Wichita M.     | eP | 53°2     | 9120 | 82°1 |

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Iles Kouriles

|                    |           |  |
|--------------------|-----------|--|
| 43°0'N, 147°1'E.   | h = 33km. | H = 22 <sup>h</sup> 38 <sup>mn</sup> 08 <sup>s</sup> (CGS)   |
| 43°2'N, 146°9'E    |           | H = 22 <sup>h</sup> 38 <sup>mn</sup> 11 <sup>s</sup> (URSS)  |
| 43°02'N, 147°28'E. | h = 60km. | H = 22 <sup>h</sup> 38 <sup>mn</sup> 05°5 <sup>s</sup> (JMA) |

M = 5.6 (Nurmijaervi), 5.4 (Kajaani), 5.2 (Kevo), 4.9 (JMA, Bozeman SSS), 4.7 (CGS, Eureka, Cumberland Pl), 4.5 (Uinta Basin, Wichita M), 4.4 (College), 4.2 (Gilmore Creek), 4.1 (Blue M, Tonto Forest).

|                   |    |                    |     |            |      |      |
|-------------------|----|--------------------|-----|------------|------|------|
| Nemuro            | iP | 22 38 29.8         | iS  | 22 38 46.9 |      |      |
| Kushiro           | P  | 41.3               | S   | 39 06      |      |      |
| Obihiro           | e  | 39 00              |     |            |      |      |
| Urakawa           | P  | 01.7               | eS  | 43         |      |      |
| Youjno Sakhalinsk | eP | 24                 |     |            |      |      |
| Matsushiro        | iP | 40 21.8            | S   | 42 07      |      |      |
| Vladivostok       | eP | 50                 |     |            |      |      |
| Oulan Bator       | iP | 44 04              |     |            |      |      |
| Esen Boulak       | iP | 45 06              |     |            |      |      |
| College           | eP | 56                 | i   | 46 08.5    | 4635 | 41°7 |
| Gilmore Creek     | eP | 56.8               |     |            | 4655 | 41°9 |
| Shillong          | eP | 46 45              |     |            |      |      |
| Talgar            | eP | 59                 |     |            |      |      |
| Chatra            | iP | 47 09 <sup>C</sup> |     |            |      |      |
| Sverdlovsk        | eP | 29                 |     |            |      |      |
| Res dute          | eP | 42.1               | i   | 47 53      | 6190 | 55°7 |
| Garm              | eP | 47                 |     |            |      |      |
| New Dehlu         | iP | 52                 | i   | 48 03      |      |      |
| Kevo              | eP | 48 08              |     |            | 6600 | 59°4 |
| Sodankylae        | eP | 20                 |     |            | 6790 | 61°1 |
| Edmonton          | eP | 26                 |     |            | 6890 | 62°0 |
| Kiruna            | iP | 28.8 <sup>C</sup>  |     |            |      |      |
| Oulu              | iP | 31.6               |     |            |      |      |
| Nordman           | eP | 32                 |     |            | 6960 | 62°8 |
| Newport           | eP | 33                 |     |            | 6990 | 63°9 |
| Kajaani           | iP | 33.5               |     |            | 7010 | 63°1 |
| Quetta            | eP | 37.5 <sup>C</sup>  |     |            |      |      |
| Warramunga        | eP | 37.5               |     |            | 7060 | 63°7 |
| Blue M.           | eP | 45                 |     |            | 7200 | 64°8 |
| Uméa              | iP | 49.2               |     |            |      |      |
| Poona             | eP | 50                 |     |            |      |      |
| Nurmijaervi       | iP | 56.5               |     |            | 7410 | 66°7 |
| Bozeman SSS       | eP | 49 03              | iSP | 49 14.2    | 7500 | 67°5 |
| Eureka            | eP | 11.5               | i   | 22.6       | 7645 | 68°8 |
| Uppsala           | iP | 13.8               | i   | 24.9       | 7710 | 68°4 |



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|                |       |          |      |          |      |      |
|----------------|-------|----------|------|----------|------|------|
| Woody          | eP    | 22 49 14 | 1    | 22 49 25 | 7710 | 69.4 |
| Frobisher      | eP    | 16.4     |      |          | 7765 | 69.9 |
| Lillehammer    | iP    | 20.4     |      |          | 7820 | 70.4 |
| Bakouriani     | eP    | 27.8     |      |          |      |      |
| Uinta Basin    | eP    | 31.3     | ePcP | 41.6     | 8000 | 72.0 |
| Tabriz         | eP    | 32       |      |          |      |      |
| Chiraz         | P     | 39.9     |      |          | 8135 | 73.2 |
| Tonto Forest   | eP    | 49.8     | ePcP | 50 10.2  | 8335 | 75.0 |
| Krakow         | eIP   | 57.3     |      |          |      |      |
| Niedzica       | eP    | 59.5     |      |          |      |      |
| Collm          | eP    | 50 04    |      |          | 8665 | 78.0 |
| Pruhonice      | P     | 08       |      |          | 8720 | 78.5 |
| Moxa           | eP    | 10       |      |          | 8780 | 79.0 |
| Kasperské Hory | P     | 14       |      |          | 8845 | 79.6 |
| Erlangen       | eP    | 16.5D    |      |          |      |      |
| Wichita M.     | eP    | 21.9     |      |          | 9135 | 82.2 |
| Cumberland Pl  | eP    | 57.7     |      |          | 9800 | 88.2 |
| Bangui         | 1PKP1 | 57 30.4  | 1PP  | 58 10.4  |      |      |

I. 20 janvier

Au large de la côte de l'Orégon (USA)

43° 5' N, 126° 5' W. h = 22 km H = 01h21<sup>mn</sup>07.5<sup>s</sup> (CGS)

M = 4.9 (Blue M), 4.7 (Dugway), 4.5 (Uinta Basin, Cumberland Pl),  
4.1 (CGS), 3.9 (Wichita M), 3.7 (Tonto Forest), 3.6 (Albuquerque),  
3.2 (Golden).

|               |    |            |       |            |      |      |
|---------------|----|------------|-------|------------|------|------|
| Corvalis      | eP | 01 21 50.0 |       |            | 290  | 2.6  |
| Longmire      | eP | 22 20.1    |       |            | 520  | 4.7  |
| Oroville      | eP | 29.5       |       |            | 600  | 5.4  |
| Blue M.       | eP | 48.0       |       |            | 755  | 6.8  |
| Mt Hamilton   | eP | 50.6C      |       |            | 800  | 7.2  |
| Jamestown     | eP | 54.4C      |       |            | 800  | 7.2  |
| San Luis Dam  | iP | 58.0       |       |            | 845  | 7.6  |
| Newport       | iP | 23 07.0    |       |            | 900  | 8.1  |
| Nordman       | eP | 11.0       |       |            | 930  | 8.4  |
| Butte         | eP | 36.5       |       |            | 1145 | 10.3 |
| Dugway        | eP | 43.8       | e     | 01 23 51.5 | 1200 | 10.8 |
| Pasadena      | eP | 52.0       | e     | 24 02.0    | 1270 | 11.4 |
| Edmonton      | eP | 24 14.0    |       |            | 1455 | 13.1 |
| Uinta Basin   | eP | 14.5       | ePP   | 27.0       | 1445 | 13.0 |
| Tonto Forest  | eP | 42.1       | e(PP) | 25 00.5    | 1670 | 15.0 |
| Golden        | eP | 56.2       |       |            | 1810 | 16.3 |
| Albuquerque   | eP | 25 15.0    |       |            | 1970 | 17.7 |
| Wichita M.    | eP | 36 16.3    | ePP   | 26 28.6    | 2590 | 23.3 |
| Cumberland Pl | eP | 27 42.3    |       |            | 3590 | 32.3 |
| Mould Bay     | eP | 43.0       |       |            | 3670 | 33.0 |

II. 30 janvier  
Iles Kouriles

43° 3' N, 146° 8' E. h = 12 km.

H = 01h30<sup>mn</sup>12.7<sup>s</sup> (CGS)

44° 3' N, 146° 0' E

H = 01h30<sup>mn</sup>23<sup>s</sup> (URSS)

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43° 01' N, 146° 49' E. h = 30 km. H = 01h30mn 16.5S (JMA)

M = 6.1 (Collm), 5.9 (Poona, Rabaul), 5.8 (Kiruna, Uppsala), 5.7 (Kajaani, Nurmijaervi, Kap Tobin, Stuttgart), 5.6 (New Dehli), 5.3 (Dugway, CGS, URSS, Bensberg, JMA, Shillong, Alert), 5.2 (North Pole, Eureka, Cumberland Pl), 5.1 (Wichita M, Albuquerque, Bozeman SSS, Gilmore Creek), 5.0 (Uinta Basin), 4.9 (Blue M), 4.7 (College, Station Nord).

|                 |      |       |       |    |       |      |      |      |
|-----------------|------|-------|-------|----|-------|------|------|------|
| Nemuro          | 1P   | 01 30 | 34.4  | 1S | 01 30 | 45.4 | 100  | 0.9  |
| Kourilsk        | eP   |       | 51    | 1S | 31 14 |      | 230  | 2.1  |
| Abashiri        | P    |       | 51.2  | S  |       | 14.8 | 220  | 2.0  |
| Urakawa         | P    | 31    | 08.0  | eS |       | 37.8 | 355  | 3.2  |
| Sapporo         | P    |       | 20.0  | eS | 32 07 |      | 445  | 4.0  |
| Hachinohe       | P    |       | 27.0  | S  |       | 21.0 | 535  | 4.8  |
| Mizusawa        | eP   |       | 44.6  | eS |       | 59.3 | 665  | 6.0  |
| Matsushiro      | 1P   | 32    | 30.5  | X  | 34 04 |      | 1050 | 9.4  |
| Severo Kourilsk | eP   |       | 39.8  |    |       |      | 1080 | 9.7  |
| Vladivostok     | eP   |       | 53.0  | eS |       | 52   | 1210 | 10.9 |
| Abuyama         | 1P   | 33    | 07.3  |    |       |      | 1350 | 12.2 |
| Oishiyama       | eP   |       | 20.6  |    |       |      | 1420 | 12.8 |
| Shiraki         | eP   |       | 33.2  |    |       |      | 1555 | 14.0 |
| Magadan         | eP   | 34    | 03    |    |       |      | 1830 | 16.5 |
| Seoul           | eP   |       | 04.6  |    |       |      | 1790 | 16.1 |
| Yakoutsk        | P    |       | 56    |    |       |      | 2365 | 21.3 |
| Bodajbo         | 1P   | 35    | 34.7  |    |       |      | 2780 | 25.0 |
| Oulan Bator     | 1P   | 36    | 06    |    |       |      | 3120 | 28.1 |
| Anpu            | e(P) |       | 06.5  |    |       |      | 3045 | 27.4 |
| Tiksi           | eP   |       | 15    |    |       |      | 3305 | 29.7 |
| Baguio          | e!P  | 37    | 06.0  |    |       |      | 3870 | 34.8 |
| Esen Boulak     | 1P   |       | 12    |    |       |      | 3940 | 35.5 |
| Barrow          | 1P   |       | 41.1D |    |       |      | 4330 | 39.0 |
| Palmer          | eP   |       | 59.1  |    |       |      | 4580 | 41.2 |
| Gilmore Creek   | eP   | 38    | 03.9  |    |       |      | 4645 | 41.8 |
| Semipalatinsk   | eP   |       | 25.8  |    |       |      | 4965 | 44.7 |
| Shillong        | 1P   |       | 51.7  |    |       |      | 5300 | 47.7 |
| Rabaul          | eP   |       | 53D   |    |       |      | 5280 | 47.5 |
| Mould Bay       | eP   | 39    | 02.0  |    |       |      | 5490 | 49.4 |
| North Pole      | eP   |       | 02.4  |    |       |      | 5480 | 49.3 |
| Talgar          | 1P   |       | 04    |    |       |      | 5480 | 49.1 |
| Chittagong      | eP   |       | 09    |    |       |      | 5525 | 49.7 |
| Chatra          | eP   |       | 14C   |    |       |      | 5605 | 50.5 |
| Frounze         | 1P   |       | 18.5C |    |       |      | 5685 | 51.2 |
| Sverdlovsk      | eP   |       | 33D   |    |       |      | 5920 | 53.3 |
| Alert           | eO   |       | 33.3D |    |       |      | 5955 | 53.6 |
| Station Nord    | 1P   |       | 43.0  |    |       |      | 6120 | 55.1 |
| Resolute        | eP   |       | 46.0  |    |       |      | 6145 | 55.3 |
| Tachkent        | eP   |       | 49D   |    |       |      | 6150 | 55.4 |
| Garm            | 1P   |       | 52C   |    |       |      | 6205 | 55.9 |
| New Dehli       | 1P   |       | 57.7  |    |       |      | 6290 | 56.6 |
| Lahore          | eP   | 40    | 00    |    |       |      | 6345 | 57.1 |

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|                 |     |                       |    |          |      |       |
|-----------------|-----|-----------------------|----|----------|------|-------|
| Douchambé       | eP  | 01 40 01              |    |          | 6345 | 57° 1 |
| Warsak          | eP  | 04                    |    |          | 6410 | 57° 7 |
| Samarkand       | P   | 05° 5 <sup>C</sup>    |    |          | 6410 | 57° 7 |
| Apatity         | eP  | 11                    |    |          | 6525 | 58° 7 |
| Kevo            | 1P  | 14° 2                 |    |          | 6570 | 59° 1 |
| Sodankylä       | 1P  | 25° 8 <sup>D</sup>    |    |          | 6755 | 60° 6 |
| Edmonton        | eP  | 33° 0                 |    |          | 6880 | 61° 9 |
| Kiruna          | 1P  | 34° 3 <sup>C</sup>    |    |          | 6900 | 62° 1 |
| Oulu            | 1P  | 37° 2 <sup>D</sup>    |    |          | 6955 | 62° 6 |
| Kajaani         | 1P  | 39° 0                 |    |          | 6980 | 62° 8 |
| Nordman         | eP  | 39° 0                 |    |          | 6970 | 62° 7 |
| Newport         | eP  | 40° 0                 |    |          | 6990 | 62° 9 |
| Qietta          | eP  | 42° 2 <sup>C</sup>    |    |          | 7000 | 63° 0 |
| Warramunga      | eP  | 47                    | e  | 02 01 16 | 7100 | 63° 9 |
| Charters Towers | eP  | 48                    |    |          | 7000 | 63° 0 |
| Madras          | eP  | 50                    |    |          | 7135 | 64° 2 |
| Vannosvskaya    | P   | 51                    |    |          | 7160 | 64° 4 |
| Mashad          | 1P  | 51° 5                 |    |          | 7155 | 64° 4 |
| Blue M.         | eP  | 52° 8                 |    |          | 7200 | 64° 8 |
| Achkhabad       | eP  | 53                    |    |          | 7140 | 64° 3 |
| Moskva          | eP  | 53                    |    |          | 7185 | 64° 7 |
| Kizyl Arvat     | 1P  | 54 <sup>D</sup>       |    |          | 7205 | 64° 9 |
| Uméa            | 1P  | 54° 0                 |    |          | 7245 | 65° 2 |
| Poona           | eP  | 55                    |    |          | 7245 | 65° 2 |
| Oroville        | eP  | 57° 0                 |    |          | 7270 | 65° 4 |
| Bombay          | eP  | 58                    |    |          | 7305 | 65° 7 |
| Nurmijaerwi     | 1P  | 41 02° 1 <sup>D</sup> |    |          | 7370 | 66° 3 |
| Kap Tobin       | 1P  | 02° 8                 |    |          | 7370 | 66° 3 |
| Butte           | eP  | 05° 5                 |    |          | 7410 | 66° 7 |
| Bozeman SSS     | eP  | 09° 5                 |    |          | 7500 | 67° 5 |
| Skalstugan      | 1P  | 09° 6                 |    |          | 7505 | 67° 5 |
| Kodaikanal      | 1P  | 15 <sup>D</sup>       |    |          | 7560 | 68° 0 |
| Uppsala         | 1P  | 19° 3                 |    |          | 7680 | 69° 1 |
| Eureka          | 1P  | 19° 8                 |    |          | 7645 | 68° 8 |
| Frobisher       | 1P  | 22° 6                 |    |          | 7745 | 69° 7 |
| Lillehammer     | 1P  | 25° 8                 |    |          | 7780 | 70° 0 |
| Kirovabad       | eP  | 26                    |    |          | 7765 | 70° 0 |
| Téhéran         | e1P | 27° 0 <sup>C</sup>    |    |          | 7780 | 70° 0 |
| Dugway          | eP  | 28° 2                 |    |          | 7800 | 70° 2 |
| Akureyri        | 1P  | 31° 8                 |    |          | 7855 | 70° 7 |
| Goldstone       | P   | 32                    |    |          | 7890 | 71° 0 |
| Goris           | 1P  | 32                    | eS | 01 50 31 | 7855 | 70° 7 |
| Kongsberg       | 1P  | 35° 3                 |    |          | 7955 | 71° 6 |
| Tabriz          | 1P  | 37° 7                 | i  | 41 48° 2 | 7970 | 71° 7 |
| Bergen          | 1P  | 37° 9                 |    |          | 8000 | 72° 0 |
| Uinta Basin     | eP  | 38° 9                 | eS | 51 02    | 8000 | 72° 0 |
| Göteborg        | 1P  | 40° 3                 |    |          | 8060 | 72° 5 |
| Karlskrona      | 1P  | 41° 0                 |    |          | 8080 | 72° 7 |
| Sida            | eP  | 43                    |    |          | 8070 | 72° 6 |
| Chiraz          | 1P  | 45° 4                 |    |          | 8100 | 72° 9 |
| Simferopol      | eP  | 48° 6                 |    |          | 8185 | 73° 7 |
| BakourianI      | i   | 53° 3 <sup>C</sup>    |    |          | 7875 | 70° 9 |
| Lvov            | eP  | 54                    |    |          | 8295 | 74° 7 |

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|                  |     |                      |         |          |         |      |
|------------------|-----|----------------------|---------|----------|---------|------|
| Kichinev         | iP  | 01 41 54             |         |          | 8295    | 74°7 |
| Iasy             | P   | 56 <sup>C</sup>      |         |          | 8350    | 75°1 |
| Golden           | eP  | 56·0                 |         |          | 8310    | 74°8 |
| Tonto Forest     | eP  | 57·7                 | eS      | 01 51 30 | 8345    | 75°1 |
| Krakov           | eP  | 42 02·9 <sup>C</sup> |         |          | 8455    | 76°1 |
| Oujgorod         | eP  | 03 <sup>C</sup>      |         |          | 8475    | 76°3 |
| Niedzica         | eiP | 05 <sup>C</sup>      |         |          | 8495    | 76°5 |
| Tucson           | eP  | 06·0                 |         |          | 8520    | 76°7 |
| Raciborz         | eP  | 06·5                 |         |          | 8530    | 76°7 |
| Vrincioaia       | P   | 07 <sup>D</sup>      |         |          | 8500    | 76°5 |
| Collm            | iP  | 10·0 <sup>C</sup>    | i       |          | 42 20·7 | 8620 |
| Albuquerque      | eP  | 10·8                 | e       |          | 23·0    | 8610 |
| Campulung        | P   | 13 <sup>D</sup>      |         |          | 8635    | 77°7 |
| Pruhonice        | P   | 14·0                 |         |          | 8690    | 78°2 |
| Moza             | eP  | 15·3                 |         |          | 8730    | 78°6 |
| Witteween        | iP  | 15·3                 |         |          | 8700    | 78°3 |
| Bratislava       | eiP | 16·4                 |         |          | 8745    | 78°7 |
| Wien             | eiP | 18·8 <sup>C</sup>    |         |          | 8770    | 78°9 |
| Kasperské Hory   | eiP | 19·8                 |         |          | 8810    | 79°3 |
| Erlangen         | eP  | 21·9                 |         |          | 8840    | 79°6 |
| Bensberg         | eP  | 22·0                 |         |          | 8870    | 79°8 |
| Fürstenfeldbruck | eP  | 23                   | e(pPcP) |          | 39      | 8990 |
| Stuttgart        | eP  | 23·9                 | e       |          | 38·9    | 9000 |
| Lubbock          | eP  | 23·0                 |         |          |         | 9010 |
| Ljubljana        | eP  | 30                   |         |          |         | 9050 |
| Buhlerhohe       | eP  | 31                   |         |          |         | 9050 |
| Karlsruhe        | eP  | 31                   | e       |          | 41      | 9010 |
| Strasbourg       | eiP | 33                   |         |          |         | 9075 |
| Luxembourg       | P   | 33 <sup>C</sup>      |         |          |         | 9030 |
| Trieste          | eiP | 33·5                 | ei      |          | 43·5    | 9120 |
| Welschbruch      | eiP | 34                   | i       |          | 44·6    | 9105 |
| Champ du Feu     | eP  | 34·5                 |         |          |         | 9110 |
| Skopje           | iP  | 34·5                 |         |          |         | 9105 |
| Michita          | eP  | 35·0                 |         |          |         | 9130 |
| Basel            | P   | 37                   |         |          |         | 9185 |
| Haudompré        | eP  | 37·5                 |         |          |         | 9220 |
| Jérusalem        | iP  | 39·0                 |         |          |         | 9180 |
| Rhodes           | eiP | 41·4 <sup>C</sup>    |         |          |         | 9220 |
| Folinigre        | eP  | 43·9                 |         |          |         | 9320 |
| Sommée Lormes    | eP  | 44·4                 |         |          |         | 9345 |
| St. Sauveur      | eP  | 44·7                 |         |          |         | 9330 |
| Les Buteaux      | eP  | 45·8                 |         |          |         | 9365 |
| St. Saulge       | eP  | 46·1                 |         |          |         | 9370 |
| Garchy           | iP  | 46·2 <sup>C</sup>    | i       |          | 56·5    | 9360 |
| Vouglans         | eiP | 46·3                 | e       |          | 43 01·5 | 9365 |
| Gorron           | eP  | 46·8                 |         |          |         | 9380 |
| Brébeuf          | eP  | 47                   |         |          |         | 9400 |
| Roselend         | eP  | 47·4                 | ei      |          | 42 58·3 | 9400 |
| Lanslevillard    | eiP | 48·9                 | ei      |          | 59·5    | 9425 |
| Le Pertre        | eP  | 48·9                 |         |          |         | 9415 |
| Monteynard       | eP  | 52                   |         |          |         | 9505 |
| Toulx Ste Croix  | eP  | 52·2                 |         |          |         | 9490 |

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|                   |                   |                   |     |            |       |       |
|-------------------|-------------------|-------------------|-----|------------|-------|-------|
| Valsamata         | eP                | 01 42 53°1        |     |            | 9485  | 85°4  |
| Isoia             | iP                | 53°2              |     |            | 9530  | 85°8  |
| Clermont          | eP                | 53°5              | e   | 01 43 06°5 | 9515  | 85°6  |
| Monaco            | eP                | 54°5              |     |            | 9560  | 86°0  |
| Vamos             | eP                | 55                |     |            | 9535  | 85°8  |
| St. Paul en Foret | eP                | 56°4              |     |            | 9605  | 86°4  |
| Morgantown        | iP                | 57°7 <sup>D</sup> |     |            | 9700  | 87°3  |
| Lorgues           | eP                | 57°8              |     |            | 9630  | 86°6  |
| La Mourre         | eP                | 58°0              |     |            | 9630  | 86°7  |
| Cumberland Pl.    | eP                | 43 05°1           |     |            | 9800  | 88°2  |
| Oak Ridge         | iP                | 08°6              |     |            | 9830  | 88°5  |
| Blacksbourg       | P                 | 10°0              |     |            | 9900  | 89°1  |
| Toledo            | iP                | 28°8              |     |            | 10345 | 93°1  |
| Sétif             | 1(P)              | 39°0              |     |            | 10380 | 93°4  |
| Bangui            | iPKP <sub>1</sub> | 48 51°4           | 1PP | 49 38°4    | 12610 | 113°5 |
| Broken Hill       | ePKP              | 49 06             |     |            | 13370 | 120°3 |
| Karoi             | ePKP              | 07                |     |            | 13455 | 121°1 |
| Bilawayo          | ePKP              | 13                |     |            | 13770 | 123°9 |
| Prétoria          | iPKP              | 20°0 <sup>C</sup> |     |            | 14175 | 127°6 |
| South Pole        | ePKP              | 28°6              |     |            | 14790 | 133°1 |
| La Paz            | PKP               | 40°7              | PKS | 53 19°3    | 15580 | 140°2 |
| Penas             | PKP               | 42°6              | PKD | 17°0       | 15520 | 139°7 |
| Cochabamba        | PKP               | 48°2              |     |            | 15780 | 142°0 |
| Novo_Lazarevskaya | ePKP              | 49                |     |            | 16075 | 144°7 |
| Chileka           | ePP               | 50 11             |     |            | 12935 | 116°4 |

inscrit à Porto - Brisbane.

III. 30 Janvier

Région de la Nouvelle Bretagne.

H = 01h.47<sup>mn</sup>03<sup>s</sup>.; M. = 3°7(Rabaul)

|                |    |                         |    |            |  |  |
|----------------|----|-------------------------|----|------------|--|--|
| Rabalanakala   | iP | 01 47 14°4 <sup>D</sup> |    |            |  |  |
| Wanliss Street | iP | 14°5 <sup>D</sup>       |    |            |  |  |
| Rabaul         | iP | 15°0 <sup>D</sup>       | iS | 01 47 24°0 |  |  |
| Keravat        | iP | 18                      | iS | 23°7       |  |  |

IV. 30 Janvier

Iles Kouriles.

43°3 N ; 147°7 E ; h = 33<sup>km</sup> ; H = 01h.48<sup>mn</sup>28°6<sup>s</sup>. (CGS)  
 43°4 N ; 147°6 E ; h = 01h.48<sup>mn</sup>29°S. (URSS)  
 42°49' N ; 147°17' E ; h = 0<sup>km</sup> ; H = 01h.48<sup>mn</sup>27°8<sup>s</sup>. (JPA)

M. = 6°1(Roma) ; 6°0(Moxa - Pruhonice - Strasbourg) ; 5°9(Mt. Tsukuba) ;  
 5°8(Uppsala - Kiruna) ; 5°7(Rabaul - Nurmijaerwi) ; 5°6(Kajaani -  
 Stuttgart) ; 5°4(Bensberg - JMA - Kevo) ; 5°2(North Pole) ; 5°1(CGS -  
 College) ; 5°0(Longmire) ; 4°9(Cumberland Pl. - Bozeman SSS) ; 4°8(Palmer -  
 Eureka) ; 4°7(Wichita M.) ; 4°6(Blue M. - Dugway - Uinta Basin) ; 4°5(Albuquer-  
 que) ; 4°4(Tonto Forest - Golden).

Nemuro eP 01 48 54 iS 01 49 16°0 170 1°5

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|                   |    |                       |      |            |      |      |
|-------------------|----|-----------------------|------|------------|------|------|
| Kourilsk          | 1P | 01 49 00 <sup>C</sup> | 1S   | 01 49 24   | 215  | 1'9  |
| Obashiri          | P  | 10·4                  | S    | 39·8       | 285  | 2'6  |
| Urakawa           | P  | 27·3                  | eS   | 50 09      | 420  | 3'8  |
| Sapporo           | P  | 38                    |      |            | 520  | 4'7  |
| Youjno_Sakhalinsk | 1P | 46 <sup>D</sup>       |      |            | 570  | 5'1  |
| Hachinohe         | eP | 46·8                  | S    | 44·3       | 595  | 5'4  |
| Morioŭa           | eP | 55·7                  | 1S   | 51 02·2    | 675  | 6'1  |
| Mizusawa          | eP | 50 02·0               | eS   | 11·7       | 720  | 6'5  |
| Sendai            | eP | 10·4                  | 1S   | 23·9       | 800  | 7'2  |
| Mt. Tsukuba       | eP | 36·2                  |      |            | 1010 | 9'1  |
| Severo Kourilsk   | eP | 43·5 <sup>C</sup>     | eS   | 52 33·5    | 1030 | 9'3  |
| Dodaira           | eP | 45·6                  |      |            | 1090 | 9'8  |
| Matsushiro        | 1P | 48·5                  | S    | 48         | 1105 | 9'9  |
| Kyosumi           | eP | 50·7                  |      |            | 1100 | 9'9  |
| Vladivostok       | eP | 51 12                 |      |            | 1280 | 11'5 |
| Abuyama           | eP | 25                    |      |            | 1405 | 12'7 |
| Oishiyama         | eP | 34·0                  |      |            | 1480 | 13'3 |
| Shiraki           | eP | 51·8                  |      |            | 1620 | 14'6 |
| Magadan           | P  | 52 15                 |      |            | 1810 | 16'3 |
| Séoul             | eP | 22·1                  |      |            | 1870 | 16'8 |
| Magasaki          | eP | 32·0                  | eS   | 56 00·0    | 1950 | 17'5 |
| Yakoutsk          | 1P | 53 12 <sup>D</sup>    |      |            | 2380 | 21'4 |
| Bodajbo           | 1P | 51·5                  |      |            | 2820 | 25'4 |
| Tiksi             | eP | 54 29                 |      |            | 3310 | 29'8 |
| Baguio            | 1P | 55 21·8               | eS   | 02 01 54·0 | 3920 | 35'3 |
| Barrow            | eP | 50·3                  |      |            | 4310 | 38'8 |
| Palmer            | eP | 56 07·8               |      |            | 4530 | 40'8 |
| College           | eP | 12·5                  | 1    | 01 56 25·6 | 4590 | 41'3 |
| Gilmore Creek     | eP | 13·3                  |      |            | 4600 | 41'4 |
| Davao             | e  | 28·0                  | 1S   | 02 02 22·0 | 4545 | 40'9 |
| Semipalatinsk     | P  | 43                    |      |            | 5020 | 45'2 |
| Rabaul            | eP | 57 05·5 <sup>D</sup>  | e(S) | 04 02      | 5270 | 47'4 |
| North Pole        | eP | 13·9                  |      |            | 5470 | 49'2 |
| Mould Bay         | eP | 14·0                  |      |            | 5470 | 49'2 |
| Talgar            | 1P | 21                    |      |            | 5530 | 49'8 |
| Chittagong        | eP | 27                    |      |            | 5600 | 50'4 |
| Frounze           | 1P | 36·0                  |      |            | 5730 | 51'6 |
| Alert             | eP | 46·0                  |      |            | 5955 | 53'6 |
| Sverdlovsk        | eP | 49                    |      |            | 5955 | 53'6 |
| Bokaro            | 1P | 53                    |      |            | 5985 | 53'9 |
| Resolute          | eP | 59·0                  | 1    | 01 58 10·0 | 6145 | 55'3 |
| Tachkent          | 1P | 58 05 <sup>D</sup>    | eS   | 02 05 50   | 6200 | 55'8 |
| Garm              | 1P | 08                    |      |            | 6270 | 56'4 |
| New Dehli         | 1P | 15·5 <sup>D</sup>     | eS   | 06 09      | 6370 | 57'3 |
| Lahore            | P  | 18                    |      |            | 6410 | 57'7 |
| Douchambé         | 1P | 19                    | 1S   | 17         | 6400 | 57'6 |
| Kirkenes          | eP | 22                    |      |            | 6500 | 58'5 |
| Warsak            | 1P | 22·3                  |      |            | 6480 | 58'3 |
| Apatity           | 1P | 25 <sup>C</sup>       |      |            | 6530 | 58'8 |
| Kevo              | 1P | 28·5                  | eS   | 40         | 6590 | 59'3 |
| Sodankylä         | 1P | 38·9                  |      |            | 6790 | 61'1 |

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|                 |      |                 |      |            |      |      |
|-----------------|------|-----------------|------|------------|------|------|
| Longmire        | e(P) | 01 58 46        | eS   | 02 07°0    | 6720 | 60°6 |
| Kiruna          | 1P   | 48°5            |      |            | 6930 | 62°4 |
| Nordman         | eP   | 49°0            |      |            | 6910 | 62°2 |
| Newport         | eP   | 50°0            |      |            | 6930 | 62°4 |
| Oulu            | 1P   | 50°8            |      |            | 6985 | 62°9 |
| Kajaani         | 1P   | 53°6            | i    | 01 59 17°6 | 7010 | 63°1 |
| Charters Towers | eP   | 56              | iS   | 02 07 20   | 7000 | 63°0 |
| Blue M.         | eP   | 58°8            | e    | 00 04°8    | 7130 | 64°2 |
| Quetta          | 1P   | 59 00°0C        | eS   | 07 40°0    | 7080 | 63°7 |
| Warramunga      | eP   | 00°5            |      |            | 7120 | 64°1 |
| Achkhabad       | eP   | 05°5            |      |            | 7200 | 64°8 |
| Madras          | eP   | 07              |      |            | 7205 | 64°9 |
| Vanno vskaya    | P    | 08              |      |            | 7210 | 64°9 |
| Mashad          | e1P  | 08°5            |      |            | 7220 | 65°0 |
| Uméa            | 1P   | 08°6            |      |            | 7275 | 65°5 |
| Moskva          | P    | 09 <sup>D</sup> |      |            | 7230 | 65°0 |
| Poulkovo        | 1P   | 09 <sup>D</sup> |      |            | 7230 | 65°1 |
| Kizyl_Arvat     | eP   | 12 <sup>D</sup> |      |            | 7255 | 65°3 |
| Poona           | eP   | 13              |      |            | 7320 | 65°9 |
| Butte           | eP   | 15°1            |      |            | 7355 | 66°2 |
| Nurmijaerwi     | 1P   | 16°5            | eS   | 02 08 00   | 7410 | 66°7 |
| Bozeman SSS     | eP   | 19°0            |      |            | 7445 | 67°0 |
| Skalstugan      | 1P   | 22°8            |      |            | 7530 | 67°8 |
| Eureka          | 1P   | 23°2            |      |            | 7590 | 68°3 |
| Uppsala         | 1P   | 33°9            |      |            | 7710 | 69°4 |
| Frobisher       | eP   | 34°0            |      |            | 7730 | 69°6 |
| Dugway          | eP   | 37°3            |      |            | 7745 | 69°7 |
| Poti            | eP   | 38              |      |            | 7780 | 70°0 |
| Lillehammer     | 1P   | 40°0            |      |            | 7810 | 70°3 |
| Pasadena        | eP   | 41              | eS   | 08°9-      | 7810 | 70°3 |
| Kirovabad       | P    | 42              |      |            | 7820 | 70°4 |
| Téhéran         | e1P  | 43°0C           |      |            | 7845 | 70°6 |
| Tbilisi         | eP   | 44              |      |            | 7845 | 70°6 |
| Akureyri        | eP   | 45              |      |            | 7870 | 70°8 |
| Boulder City    | eP   | 45°5            |      |            | 7910 | 71°2 |
| Goris           | 1P   | 47              | iS   | 09 07      | 8010 | 72°1 |
| Bakouriani      | eP   | 47°8            |      |            | 7920 | 71°3 |
| Uinta Basin     | eP   | 48°0            | eS   | 07         | 7945 | 71°5 |
| Kongsberg       | 1P   | 49°8            |      |            | 7980 | 71°8 |
| Göteborg        | 1P   | 52°0            |      |            | 8090 | 72°8 |
| Bergen          | 1P   | 52°4            |      |            | 8020 | 72°2 |
| Tabriz          | 1P   | 54°5            | e1S  | 15         | 8020 | 72°2 |
| Karlskrona      | 1P   | 55°7            |      |            | 8110 | 73°0 |
| Chiraz          | P    | 02 00 01°9      |      |            | 8170 | 73°5 |
| Semipalatinsk   | eP   | 05              | eS   | 42         | 8220 | 74°0 |
| Golden          | eP   | 06°4            |      |            | 8255 | 74°3 |
| Tonto Forest    | eP   | 06°6            | ePP  | 02 49°5    | 8280 | 74°5 |
| Lvov            | eP   | 09              | M    | 38°3-      | 8320 | 74°9 |
| Kichinev        | 1P   | 10 <sup>C</sup> |      |            | 8330 | 75°0 |
| Tucson          | eP   | 18°0            | e(S) | 10 04°0    | 8455 | 76°1 |
| Niedzica        | eP   | 18°5            |      |            | 8535 | 76°8 |
| Oujgorod        | eP   | 20              |      |            | 8510 | 76°6 |

|                  |      |       |                   |      |            |      |      |
|------------------|------|-------|-------------------|------|------------|------|------|
| Albuquerque      | eP   | 02 00 | 20.0              | e    | 02 10 08.0 | 8555 | 77.0 |
| Raciborz         | eP   |       | 21.5              |      |            | 8565 | 77.1 |
| Vrincloaia       | P    |       | 22 <sup>C</sup>   |      |            | 8545 | 76.9 |
| Collm            | eP   |       | 24                | e    | 02 00 37   | 8655 | 77.9 |
| Praha            | eP   |       | 26                |      |            | 8720 | 78.5 |
| Campulung        | P    |       | 28 <sup>D</sup>   |      |            | 8680 | 78.1 |
| Pruhonice        | eP   |       | 28                | eS   | 10 22      | 8720 | 78.5 |
| Canberra         | eP   |       | 29                | iS   | 22         | 8690 | 78.2 |
| Srobarova        | eiP  |       | 29                |      |            | 8765 | 78.9 |
| Wittween         | iP   |       | 30.0              |      |            | 8730 | 78.5 |
| Moxa             | eiP  |       | 30.5              | eS   | 30         | 8780 | 79.0 |
| Bratislava       | iP   |       | 31.4              | i    | 00 53.9    | 8780 | 79.0 |
| Istanbul UTI     | iP   |       | 33 <sup>C</sup>   | eS   | 10 38      | 8845 | 79.6 |
| Kasperské Hory   | eiP  |       | 33.5              |      |            | 8845 | 79.6 |
| Wien             | eiP  |       | 33.5              |      |            | 8810 | 79.3 |
| Erlangen         | eP   |       | 36.7              |      |            | 8875 | 79.9 |
| Benbsberg        | iP   |       | 36.8              | e    | 00 25      | 8900 | 80.1 |
| Sofia            | eP   |       | 40.3              |      |            | 8990 | 80.9 |
| Fürstenfeldbruck | eP   |       | 43                | eipP | 53         | 9010 | 81.2 |
| Stuttgart        | eP   |       | 43.7              |      |            | 9030 | 81.3 |
| Ksara            | iP   |       | 44                |      |            | 9025 | 81.2 |
| Karlsruhe        | eP   |       | 45 <sup>C</sup>   |      |            | 9040 | 81.4 |
| Bühlerhöhe       | eP   |       | 45                |      |            | 9080 | 81.7 |
| Wlchita M.       | eP   |       | 45.5              | eS   | 10 55      | 9080 | 81.7 |
| Ljubljana        | eP   |       | 46                |      |            | 9090 | 81.8 |
| Luxembourg       | P    |       | 47 <sup>D</sup>   |      |            | 9070 | 81.6 |
| Trieste          | iP   |       | 48                | eS   | 02 11.0    | 9155 | 82.4 |
| Welschbruch      | iP   |       | 48.9              | i    | 01 01.5    | 9135 | 82.3 |
| Champ du Feu     | eiP  |       | 49.1              |      |            | 9140 | 82.3 |
| Paraskevi        | eP   |       | 49.3              |      |            | 9140 | 82.2 |
| Skopje           | iP   |       | 49.7              |      |            | 9150 | 82.3 |
| Strasbourg       | eiP  |       | 50                | ei   | 02 11.0    | 9110 | 82.0 |
| Haudompré        | eiP  |       | 53 <sup>D</sup>   |      |            | 9210 | 82.9 |
| Basel            | P    |       | (53)              |      |            | 9215 | 82.9 |
| Beograd          | e(P) |       | 53.7              |      |            | 8940 | 80.5 |
| Jérusalem        | iP   |       | 55.0              |      |            | 9230 | 83.1 |
| Rhodes           | eP   |       | 56.9              |      |            | 9270 | 83.4 |
| Folinagare       | eiP  |       | 58.3              |      |            | 9355 | 84.2 |
| Brébeuf          | iP   |       | 58.7 <sup>D</sup> |      |            | 9370 | 84.3 |
| St. Sauveur      | eiP  |       | 59.0              |      |            | 9370 | 84.3 |
| Sommée Lormes    | eiP  |       | 59.1              |      |            | 9380 | 84.5 |
| Athènes          | eiP  | 01    | 00.1 <sup>C</sup> |      |            | 9390 | 84.5 |
| St. Saulge       | eiP  |       | 00.5              |      |            | 9400 | 84.6 |
| Les Buteaux      | eiP  |       | 00.5              |      |            | 9395 | 84.5 |
| Garchy           | iP   |       | 00.6              | i    | 01 13.3    | 9410 | 84.7 |
| Gorron           | eiP  |       | 00.9              |      |            | 9400 | 84.6 |
| Vouglans         | eiP  |       | 01.1              | ei   | 14.1       | 9395 | 84.6 |
| Roselend         | eP   |       | 02.0              | ei   | 15.5       | 9430 | 84.9 |
| Le Pertre        | eiP  |       | 03.3              |      |            | 9440 | 85.0 |
| Lanslevillard    | eiP  |       | 03.4              | ei   | 02 08.0    | 9460 | 85.1 |
| l'Aquila         | eiP  |       | 04                | eis  | 11 30      | 9485 | 85.4 |
| Toulx Ste Croix  | eiP  |       | 06.5              |      |            | 9520 | 85.7 |



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|                   |                   |            |       |            |       |       |
|-------------------|-------------------|------------|-------|------------|-------|-------|
| Isola             | iP                | 02 01 07.8 |       |            | 9570  | 86.1  |
| Roma              | eP                | 08.4       | eS    | 02 11 44.4 | 9570  | 86.1  |
| Valsamata         | eP                | 08.4       |       |            | 9530  | 85.8  |
| Vamos             | eP                | 10.4       |       |            | 9585  | 86.3  |
| St Paul en Foret  | eIP               | 10.8       |       |            | 9640  | 86.7  |
| La Mourre         | eIP               | 12.3       |       |            | 9665  | 87.0  |
| Lorgues           | eIP               | 12.3       |       |            | 9660  | 87.0  |
| Morgantown        | eP                | 14.0       |       |            | 9655  | 86.9  |
| Cumberland Pl     | eP                | 16.2       |       |            | 9745  | 87.7  |
| Oak Ridge         | iP                | 19.8       |       |            | 9790  | 88.1  |
| Blacksburg        | P                 | 21.4       |       |            | 9870  | 88.2  |
| Bagnères          | eP                | 23         |       |            | 9915  | 89.2  |
| Monteynard        | e(P)              | 23         |       |            | 9535  | 85.8  |
| Toledo            | eP                | 42.4       | e(S)  | 12 23      | 10370 | 93.4  |
| Addis Ababa       | eP                | 55         |       |            | 10810 | 97.3  |
| Bangui            | iPKP <sub>1</sub> | 07 07.6    | iPP   | 07 52.3    | 12875 | 114.1 |
| Lamto             | PKP               | 27.0       |       |            | 13880 | 124.9 |
| Nana              | PKP               | 27.0       |       |            | 14510 | 130.6 |
| Penas             | PKP               | 56.9       | SS    | 28 48      | 15470 | 133.2 |
| La Paz            | PKP               | 57.8       | e(SS) | 29 28      | 15510 | 133.6 |
| Novo Lazarevskaya | ePKP <sub>1</sub> | 08 02.5    |       |            | 16110 | 145.0 |
| Caecaeas          | ePP               | 24.0       | eiPS  | 18 12      | 13095 | 117.8 |

inscrit à De Bilt, Pavia, Ponta Delgada, Messina,  
Porto, Clermont, Edmonton, Kajaani.

V. 20 janvier  
Région des îles Fidji

20°7S, 178°6W, h = 590 km H = 01h54<sup>mn</sup>00S (CGS)

M = 5.5 (Port Moresby), 4.8 (College), 4.5 (CGS, Gilmore Creek),  
4.3 (Uinta Basin), 3.3 (Tonto Forest).

|               |       |             |    |            |       |       |
|---------------|-------|-------------|----|------------|-------|-------|
| Afiamalu      | eP    | 01 56 12    | eS | 01 57 58   | 1045  | 9.4   |
| Nouméa        | eP    | 59.7        |    |            | 1555  | 14.0  |
| Luganville    | iP    | 57 03.9C    |    |            | 1610  | 14.5  |
| Koumac        | iP    | 19.4C       |    |            | 1780  | 16.0  |
| Brisbane      | iP    | 58 56.0     | e  | 02 03 45.0 | 2990  | 28.9  |
| Port Moresby  | iP    | 02 00 03.5D |    |            | 3870  | 34.8  |
| Toolangi      | eP    | 07.0        |    |            | 3920  | 35.3  |
| Mundaring     | iP    | 03 02.3C    |    |            |       |       |
| Byrd          | eP    | 41.6        |    |            | 7170  | 64.5  |
| South Pole    | eP    | 04 11.3     |    |            | 7710  | 69.4  |
| Tonto Forest  | eP    | 05 32.4     |    |            | 9355  | 84.2  |
| Blue M.       | eP    | 38.4        |    |            | 9530  | 85.8  |
| College       | eP    | 50.0        |    |            | 9845  | 88.6  |
| Gilmore Creek | eP    | 50.7        |    |            | 9855  | 88.7  |
| Uinta Basin   | eP    | 51.9        |    |            | 9810  | 88.3  |
| Boz eman SSS  | EP    | 53.2        |    |            | 9955  | 89.6  |
| Butare        | eiPKP | 12 29.7     | i  | 02 12 30.3 |       |       |
| Niedzica      | eiPKP | 39          |    |            |       |       |
| Moxa          | ePKP  | 40.0        |    |            | 16555 | 149.0 |
| Collm         | iPKP  | 40.0D       |    |            | 16455 | 148.1 |

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|                |      |          |       |       |
|----------------|------|----------|-------|-------|
| Pruhonice      | ePKP | 02 12 43 | 16555 | 149°0 |
| Kasperské Hory | ePKP | 45°0     | 16670 | 150°0 |

VI. 30 Janvier  
Iles Kouriles

|        |         |            |   |
|--------|---------|------------|---|
| 43°0N, | 147°7E, | h = 25 km. | H = 02 <sup>h</sup> 20 <sup>mn</sup> 31 <sup>s</sup> (CGS)  |
| 44°1N, | 147°3E  |            | H = 02 <sup>h</sup> 20 <sup>mn</sup> 36 <sup>s</sup> (URSS) |

M = 5.6 (Mt Tsukuba), 5.3 (Shillong), 5.2 (Kajaani, Nurmijaervi),  
4.8 (CGS), 4.5 (Tonto Forest, Wichita M), 4.4 (Uinta Basin), 4.3  
(Dugway).

|               |    |                    |      |      |
|---------------|----|--------------------|------|------|
| Kourilsk      | eP | 02 21 03           |      |      |
| Mt Tsukuba    | iP | 22 40°7            | 1020 | 9°2  |
| Dodaira       | eP | 50°4               | 1090 | 9°8  |
| Matsushiro    | P  | 53                 |      |      |
| Vladivostok   | eP | 23 16              |      |      |
| Oishiyama     | eP | 53°0               | 1480 | 13°3 |
| Shiraki       | eP | 24 07°9            | 1620 | 14.6 |
| Yakoutsk      | iP | 25 16 <sup>D</sup> |      |      |
| Bodajbo       | iP | 56°5               |      |      |
| Tiksi         | eP | 26 32              |      |      |
| Barrow        | iP | 54°1 <sup>D</sup>  | 4300 | 38°7 |
| Palmer        | eP | 28 10°9            | 4520 | 40°7 |
| College       | eP | 16°0               | 4580 | 41°2 |
| Gilmore Creek | eP | 16°1               | 4590 | 41°3 |
| Semipalatinsk | eP | 47°5               |      |      |
| Shillong      | iP | 29 13°5            | 5380 | 48°4 |
| Mould Bay     | eP | 17°0               | 5455 | 49°1 |
| Talgar        | eP | 23                 |      |      |
| Sverdlovsk    | eP | 53                 |      |      |
| Resolute      | eP | 30 03°0            | 6130 | 65°2 |
| Garm          | eP | 12                 |      |      |
| New Dehli     | iP | 18°8 <sup>D</sup>  | 6355 | 57°2 |
| Kevo          | eP | 29                 |      |      |
| Sodankylae    | eP | 42                 | 6780 | 61°0 |
| Edmonton      | eP | 47°0               | 6820 | 61°4 |
| Kiruna        | iP | 51°8               |      |      |
| Nordman       | iP | 52°0               | 6910 | 62°2 |
| Oulu          | iP | 54°4               |      |      |
| Kajaani       | iP | 56°6               | 7000 | 63°0 |
| Quetta        | eP | 31 03°5            | 7070 | 63°6 |
| Warramunga    | eP | 04                 | 7130 | 64°2 |
| Vannovskaya   | eP | 12                 |      |      |
| Moskva        | eP | 12                 |      |      |
| Uméa          | eP | 12                 |      |      |
| Blue M.       | eP | 12°3               | 7130 | 64°2 |
| Mashad        | eP | 13                 | 7220 | 65°0 |
| Poona         | eP | 17                 |      |      |
| Nurmijaervi   | eP | 19                 | 7400 | 66°6 |
| Bozeman SSS   | eP | 23°5               | 7430 | 66°9 |

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|                  |      |       |        |        |       |         |           |
|------------------|------|-------|--------|--------|-------|---------|-----------|
| Eureka           | eP   | 02 31 | 34.5   |        |       | 7580    | 68.2      |
| Uppsala          | 1P   |       | 37.4   |        |       | 7700    | 69.3      |
| Frobisher        | eP   |       | 38.0   |        |       | 7720    | 69.5      |
| Dugway           | eP   |       | 40.6   |        |       | 7745    | 69.7      |
| Lillehammer      | 1P   |       | 43.4   |        |       | 7800    | 70.2      |
| Téhéran          | eP   |       | 47     |        |       | 7845    | 70.6      |
| Goris            | eP   |       | 51     |        |       |         |           |
| Kirovabad        | eP   |       | 51     |        |       |         |           |
| Uinta Basin      | eP   |       | 51.7   | e(PCP) | 02 31 | 59.9    | 7945 71.5 |
| Bakouriani       | eP   |       | 52.1   |        |       |         |           |
| Goldstone        | P    |       | 54     | 1      | 32 06 |         | 7820 70.4 |
| Tabriz           | eP   |       | 58     |        |       |         |           |
| Chiraz           | P    | 32    | 05.9   |        |       | 8155    | 73.4      |
| Tonto Forest     | eP   |       | 09.6   | ePCP   |       | 16.5    | 8280 74.5 |
| Krakow           | eP   |       | 20.9C  |        |       |         |           |
| Oujgorod         | eP   |       | 22     |        |       |         |           |
| Niedzica         | eP   |       | 22.5   |        |       |         |           |
| Raciborz         | eP   |       | 24.5   |        |       |         |           |
| Col Im           | eP   |       | 28     |        |       | 8645    | 77.8      |
| Pruhonice        | eip  |       | 32.4   |        |       | 8710    | 78.4      |
| Moxa             | eP   |       | 33     |        |       | 8770    | 78.9      |
| Srobarova        | eip  |       | 35.9   | ei     |       | 49.4    |           |
| Kasperské Hory   | eip  |       | 38     |        |       | 8830    | 79.5      |
| Erlangen         | eP   |       | 40.1D  |        |       |         |           |
| Furstenfeldbruck | eP   |       | 46     | ei     |       | 48      | 9010 81.1 |
| Wichita M.       | eP   |       | 48.4   |        |       | 9070    | 81.6      |
| Champ du Feu     | eP   |       | 52.6   |        |       |         |           |
| Skopje           | eP   |       | 53.0   |        |       |         |           |
| St Saulge        | eP   | 33    | 01.2   |        |       | 9390    | 84.5      |
| Sommée Lormes    | eP   |       | 01.7   |        |       | 9370    | 84.3      |
| Les Buteaux      | eP   |       | 03.5   |        |       |         |           |
| Garchy           | 1P   |       | 03.9C  |        |       |         |           |
| Lanslevillard    | eP   |       | 05     | ei     |       | 33 19.3 |           |
| Roselend         | eP   |       | 05     | ei     |       | 18      |           |
| Vouglans         | eP   |       | 07     | e      |       | 17      |           |
| Toulx Ste Croix  | eP   |       | 09.9   |        |       |         |           |
| La Mourre        | eP   |       | 33.4 - |        |       |         |           |
| Lorgues          | eP   |       | 33.4 - |        |       |         |           |
| St Paul en Foret | eP   |       | 33.5 - |        |       |         |           |
| Cumberland Pl    | e(P) | 33    | 31.1   |        |       | 9745    | 87.7      |
| Bangui           | ePKP | 39    | 00.3   | 1PP    |       | 39 50.3 |           |

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Iles Kouriles

43° 3'N, 147° 7'E. h = 33 km. H = 02<sup>h</sup>33<sup>mn</sup>12.6S (CGS)  
 44° 2'N, 147° 2'E H = 02<sup>h</sup>33<sup>mn</sup>18S (URSS)  
 42° 49'N, 147° 09'E H = 02<sup>h</sup>33<sup>mn</sup>16.1S (JMA)

M = 5.7 (Mt Tsukuba), 5.6 (Shillong, Nurmijaervi), 5.5 (North Pole), Stuttgart),  
 5.4 (Kevo, Kajaani), 5.3 (Bensberg), 5.1 (CGS, JMA), 5.0 (Cumberland Pl)  
 4.9 (Bozeman SSS, Eureka), 4.8 (College), 4.7 (Uinta Basin, Dugway),

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M = 4°6 (Wichita M), 4°5 (Blue M).

|                 |    |                    |     |            |      |      |
|-----------------|----|--------------------|-----|------------|------|------|
| Nemuro          | eP | 02 38 39           | eS  | 02 38 56   |      |      |
| Urakawa         | eP | 39 12°6            | S   | 39 54°0    |      |      |
| Sapporo         | e  | 27                 |     |            |      |      |
| Morioka         | iP | 41°2               | iS  | 40 45°8    |      |      |
| Sendai          | eP | 55°7               | X   | 41 06°6    |      |      |
| Mt Tsukuba      | iP | 40 21°2            | i   | 40 35°0    | 1020 | 9°2  |
| Dodaira         | iP | 30°8               |     |            | 1090 | 9°8  |
| Matsushiro      | iP | 33°6               | iSn | 42 24°5    |      |      |
| Kyosumi         | eP | 34°8               |     |            | 1110 | 10°0 |
| Vladivostok     | eP | 57                 | eS  | 43 06      |      |      |
| Abuyama         | iP | 41 15°3            |     |            |      |      |
| Oishiyama       | eP | 80°0               |     |            | 1480 | 13°3 |
| Shiraki         | eP | 36°1               |     |            | 1620 | 14°6 |
| Séoul           | eP | 42 02°8            |     |            | 1870 | 16°8 |
| Yakoutsk        | iP | 58 <sup>D</sup>    |     |            |      |      |
| Bodajbo         | iP | 43 35°5            |     |            |      |      |
| Tiksi           | iP | 44 13 <sup>D</sup> |     |            |      |      |
| Barrow          | eP | 45 34°9            |     |            | 4300 | 33°7 |
| Palmer          | eP | 50°9               |     |            | 4520 | 40°7 |
| College         | iP | 56°1               |     |            | 4580 | 41°2 |
| Gilmore Creek   | eP | 56°5               |     |            | 4590 | 41°3 |
| Semipalatinsk   | P  | 46 27°5            |     |            |      |      |
| Shillong        | iP | 54°0               |     |            | 5330 | 48°4 |
| Mould Bay       | eP | 57°5               |     |            | 5455 | 49°1 |
| North Pole      | eP | 58°8               |     |            | 5455 | 49°1 |
| Talgar          | iP | 47 05              |     |            |      |      |
| Chittagong      | eP | 10                 |     |            | 5600 | 50°4 |
| Frounze         | iP | 19°5 <sup>C</sup>  |     |            |      |      |
| Alert           | eP | 29°0               |     |            | 5945 | 53°5 |
| Sverdlovsk      | eP | 33                 |     |            |      |      |
| Resolute        | eP | 43°0 <sup>C</sup>  |     |            | 6145 | 55°3 |
| Tachkent        | eP | 50                 |     |            |      |      |
| Garm            | eP | 52                 |     |            |      |      |
| New Delhi       | eP | 59°2               |     |            | 6370 | 57°3 |
| Douchambé       | eP | 48 02              |     |            |      |      |
| Warsak          | iP | 05                 |     |            | 6480 | 58°3 |
| Samarkand       | eP | 06                 |     |            |      |      |
| Apatity         | iP | 07 <sup>D</sup>    |     |            |      |      |
| Kevo            | iP | 10°8 <sup>D</sup>  |     |            | 6590 | 59°3 |
| Sodankylae      | iP | 23°4               |     |            | 6780 | 61°0 |
| Edmonton        | eP | 27°0               |     |            | 6830 | 61°5 |
| Kiruna          | iP | 31°9               |     |            | 6920 | 62°3 |
| Nordman         | eP | 32°0               |     |            | 6910 | 62°2 |
| Newport         | eP | 33°0               |     |            | 6920 | 62°3 |
| Oulu            | eP | 35                 |     |            |      |      |
| Kajaani         | iP | 37°0 <sup>D</sup>  |     |            | 7000 | 63°0 |
| Charters Towers | eP | 39                 |     |            | 7010 | 63°1 |
| Warlamunga      | eP | 45                 | e   | 02 53 11°5 | 7120 | 64°1 |
| Questa          | eP | 45°0               |     |            | 7080 | 63°7 |
| Blue M.         | eP | 46°2               |     |            | 7130 | 64°2 |
| Uméa            | iP | 52°0               |     |            |      |      |

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|                  |     |                   |                 |           |
|------------------|-----|-------------------|-----------------|-----------|
| Madras           | eP  | 02 48 52          |                 |           |
| Vannovskaya      | P   | 52                |                 |           |
| Mashad           | eP  | 53                | 7220            | 65°0      |
| Moskva           | eP  | 53                |                 |           |
| Kizyl Arvat      | eP  | 56                |                 |           |
| Poona            | eP  | 57                |                 |           |
| Butte            | eP  | 58·9              | 7355            | 66·2      |
| Nurmijaervi      | iP  | 49 00·8           | 7400            | 66·6      |
| Bozeman SSS      | eP  | 03·5              | 7430            | 66·9      |
| Eureka           | iP  | 13·5              | 7590            | 68·3      |
| Uppsala          | iP  | 17·1              | 7700            | 69·3      |
| Frobisher        | eP  | 18·0              | 7720            | 69·5      |
| Dugway           | eP  | 21·3              | 7745            | 69·7      |
| Lillehammer      | iP  | 23·0              | 7800            | 70·2      |
| Kifovabad        | eP  | 26                |                 |           |
| Téhéran          | eIP | 27                | 7845            | 70·6      |
| Brisbane         | iP  | 27·5              | 7830            | 70·5      |
| Goris            | iP  | 31 <sup>C</sup>   |                 |           |
| Uinta Basin      | eP  | 31·6              | ePCP 02 49 41·8 | 7945 71·5 |
| Bakouriani       | eP  | 32·3              |                 |           |
| Tabriz           | iP  | 37·3              | 8020            | 72·2      |
| Goteborg         | iP  | 38·2              |                 |           |
| Glamis           | P   | 42                | 8120            | 73·1      |
| Chiraz           | iP  | 45·9              | 8170            | 73·5      |
| Simferopol       | eP  | 48                |                 |           |
| Tonto Forest     | eP  | 50·7              | e(PCP) 50 00·5  | 8230 74·5 |
| Lvov             | eP  | 54                | M 03 26·5 -     |           |
| Kichinev         | iP  | 54                |                 |           |
| Golden           | eP  | 54·9              | 8355            | 74·3      |
| Iasy             | P   | 55 <sup>C</sup>   |                 |           |
| Tucson           | eP  | 50 00·1           | 8455            | 76·1      |
| Krakow           | eP  | 01·4              |                 |           |
| Oujgorod         | eP  | 03                |                 |           |
| Niedzica         | eP  | 03·5              | 8545            | 76·9      |
| Albuquerque      | eP  | 04·5              |                 |           |
| Vrincioaia       | P   | 07 <sup>C</sup>   |                 |           |
| Collm            | iP  | 08·2              | 8655            | 77·9      |
| Pruhonice        | eIP | 12                | 8720            | 78·5      |
| Praha            | eP  | 13                | 8710            | 78·4      |
| Moxa             | eP  | 13·5              | 8770            | 78·9      |
| Witteveen        | eP  | 14                |                 |           |
| Bratislava       | eIP | 14·9              |                 |           |
| Wien             | eP  | 16                |                 |           |
| Kasperské Hory   | eIP | 17                |                 |           |
| Raciborz         | eP  | (20)              |                 |           |
| Erlangen         | eP  | 20·2 <sup>C</sup> |                 |           |
| Bensberg         | iP  | 20·3              | e 02 50 31·5    | 8890 80·0 |
| Furstenfeldbruck | eP  | 25                | iPCO 30         | 9010 81·1 |
| Stuttgart        | eP  | 27·3 <sup>C</sup> |                 | 9030 81·3 |
| Ksara            | iP  | 28                |                 |           |
| Wichita M.       | eP  | 28·8              | 9070            | 81·6      |
| Ljubljana        | eP  | 30                |                 |           |
| Luxembourg       | P   | 30 <sup>D</sup>   | 9055            | 81·5      |

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|                  |                   |                   |     |            |       |       |
|------------------|-------------------|-------------------|-----|------------|-------|-------|
| Trieste          | eP                | 02 50 32          | e   | 02 50 42.5 | 9155  | 82.4  |
| Champ du Feu     | eP                | 32.2              |     |            |       |       |
| Welschbruch      | iP                | 32.3              |     |            |       |       |
| Skopje           | eP                | 32.8              |     |            |       |       |
| Brébeuf          | eP                | 42                |     |            |       |       |
| Folinigre        | eP                | 42.0              |     |            | 9345  | 84.1  |
| Sommée Lormes    | eP                | 42.5              |     |            | 9370  | 84.3  |
| St Sauveur       | eP                | 42.7              |     |            | 9355  | 84.2  |
| Les Buteaux      | eP                | 43.7              |     |            |       |       |
| St Saulge        | eP                | 43.9              |     |            | 9390  | 84.5  |
| Garchy           | iP                | 44.3 <sup>C</sup> | i   | 55.1       |       |       |
| Vouglans         | eip               | 44.5              | e   | 47         |       |       |
| Gorron           | eP                | 44.7              |     |            | 9400  | 84.6  |
| Roselend         | eP                | 45.8              | ei  | 58.6       |       |       |
| Le Pertre        | eP                | 46.7              |     |            |       |       |
| Lanslevillard    | eP                | 47.1              | ei  | 58.6       |       |       |
| Toulx Ste Croix  | eP                | 50.0              |     |            |       |       |
| Monteynard       | eP                | 51                |     |            |       |       |
| Isola            | iP                | 51.8              |     |            | 9570  | 86.1  |
| Haudompré        | eP                | 54.9              |     |            |       |       |
| St Paul en Foret | eP                | 55.1              |     |            |       |       |
| Lorgues          | eP                | 55.9              |     |            |       |       |
| La Mourre        | eP                | 56.2              |     |            |       |       |
| Cumberland Pl    | eP                | 58.8              |     |            | 9745  | 87.7  |
| Oak Ridge        | iP                | 51 04.1           |     |            | 9780  | 88.0  |
| Bangui           | iPKP <sub>1</sub> | 57 01.8           | iPP | 57 39.3    |       |       |
| Lamto            | PKP               | 10.6              |     |            | 1370  | 124.8 |
| La Paz           | PKP               | 41.0              |     |            | 15500 | 139.6 |

Inscrit à Rabat, Penas.

VIII. 30 Janvier  
Iles Kouriles

43°6N, 147°6E. h = 33km. H = 02<sup>h</sup>42<sup>m</sup>28<sup>s</sup> (CGS)

44°1N, 147°4E H = 02<sup>h</sup>42<sup>m</sup>30<sup>s</sup> (URSS)

M = 5.5 (Mt Tsukuba), 5.3 (Nurmijaervi), 4.7 (CGS), 4.5 (College),

4.4 (Wichita M), 4.3 (Uinta Basin), 4.2 (Tonto Forest).

|               |    |                      |  |  |      |      |
|---------------|----|----------------------|--|--|------|------|
| Mt Tsukuba    | iP | 02 44 33.3           |  |  | 1030 | 9.3  |
| Dodaira       | iP | 45.8                 |  |  | 1110 | 10.0 |
| Matsushiro    | iP | 48                   |  |  |      |      |
| Kyosumi       | eP | 49.9                 |  |  | 1130 | 10.2 |
| Shiraki       | eP | 45 48.1              |  |  | 1630 | 14.7 |
| Barrow        | iP | 49 49.4 <sup>D</sup> |  |  | 4280 | 38.5 |
| College       | eP | 50 09.0              |  |  | 4555 | 41.0 |
| Gilmore Creek | eP | 12.1                 |  |  |      |      |
| Palmer        | eP | 13.4                 |  |  | 4510 | 40.6 |
| Mould Bay     | eP | 51 12.0              |  |  | 5430 | 48.9 |
| Talgar        | eP | 19                   |  |  |      |      |

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|                  |     |       |                   |      |       |       |           |
|------------------|-----|-------|-------------------|------|-------|-------|-----------|
| Frounze          | eP  | 02 51 | 33°5              |      |       |       |           |
| Resolute         | eP  |       | 58°0              |      |       | 6110  | 55°0      |
| Garm             | eP  | 52 07 |                   |      |       |       |           |
| New Dehli        | eP  |       | 13°0              |      |       | 6355  | 57°2      |
| Sodankylae       | iP  |       | 38°1              |      |       | 6755  | 60°8      |
| Edmonton         | eP  |       | 42°0              |      |       | 6810  | 64°3      |
| Kiruna           | iP  |       | 46°3              |      |       |       |           |
| Newport          | eP  |       | 48°0              |      |       | 6910  | 62°2      |
| Nordman          | iP  |       | 48°0              |      |       | 6900  | 62°1      |
| Oulu             | eP  |       | 51                |      |       |       |           |
| Kajaani          | iP  |       | 51°4              |      |       | 6980  | 62°8      |
| Umeå             | iP  | 53    | 06°6              |      |       |       |           |
| Blue M.          | eP  |       | 08°7              |      |       | 7120  | 64°1      |
| Nurmijaervi      | iP  |       | 14°6              |      |       | 7370  | 66°3      |
| Bozeman SSS      | eP  |       | 18°5              |      |       | 7420  | 66°8      |
| Uppsala          | iP  |       | 31°5              |      |       |       |           |
| Frobisher        | eP  |       | 33°0              |      |       | 7700  | 69°3      |
| Lillehammer      | iP  |       | 37°8              |      |       | 7780  | 70°0      |
| Goris            | eP  |       | 45                |      |       |       |           |
| Uinta Basin      | eP  |       | 46°7              | ePcP | 02 53 | 56°2  | 7930 71°4 |
| Goldstone        | P   |       | 52                |      |       | 7810  | 70°3      |
| Chiraz           | iP  | 54    | 00°0              |      |       | 8145  | 73°3      |
| Lanslevillard    | eP  |       | 01                | ei   | 54    | 14°7  |           |
| Tonto Forest     | eP  |       | 05°5              | ePcP |       | 10°3  | 8270 74°4 |
| Krakow           | eP  |       | 15°4 <sup>C</sup> |      |       |       |           |
| Niedzica         | eP  |       | 17                |      |       |       |           |
| Collm            | eiP |       | 22 <sup>D</sup>   |      |       | 8620  | 77°6      |
| Pruhonice        | eiP |       | 26                |      |       | 8690  | 78°2      |
| Moxa             | eP  |       | 28°5              |      |       | 8730  | 78°6      |
| Kasperské Hory   | eiP |       | 32                |      |       | 8810  | 79°3      |
| Erlangen         | eP  |       | 34°7 <sup>D</sup> |      |       |       |           |
| Wichita M.       | eP  |       | 39°2              |      |       | 9055  | 81°5      |
| Furstenfeldbruck | eP  |       | 41                |      |       |       |           |
| Sommée Lormes    | eP  |       | 57°2              |      |       | 9330  | 84°0      |
| Les Buteaux      | eP  |       | 58°2              |      |       |       |           |
| Roselend         | eP  |       | 55 00             | e    |       | 55 08 |           |
| Garchy           | iP  |       | 01°3 <sup>C</sup> |      |       |       |           |

inscrit à Penas, La Paz.

IX. 30 janvier  
Iles Kouriles

43°4N, 147°6E. h = 33km. H = 02<sup>h</sup>53<sup>mn</sup>47<sup>s</sup> (CGS)

M = 5.9 (Mt Tsukuba), 5.4 (Kajaani), 5.2 (Nurmijaervi), 4.7 (CGS),  
4.6 (College), 4.5 (Cumberland Pl, Dugway), 4.4 (Uinta Basin,  
Gilmore Creek), 4.2 (Wichita M), 4.1 (Tonto Forest).

|            |    |       |      |   |       |      |      |
|------------|----|-------|------|---|-------|------|------|
| Mt Tsukuba | iP | 02 55 | 55°6 |   |       | 1020 | 9°2  |
| Podaira    | iP | 58    | 05°6 |   |       | 1090 | 9°8  |
| Matsuhiro  | iP |       | 09°0 | S | 02 57 | 57   |      |
| Kyosumi    | eP |       | 10°3 |   |       | 1110 | 10°0 |

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|                  |     |                         |                 |      |      |
|------------------|-----|-------------------------|-----------------|------|------|
| Barrow           | iP  | 03 01 09.3 <sup>D</sup> |                 | 4320 | 38.7 |
| Palmer           | eP  | 26.8                    |                 | 4520 | 40.7 |
| College          | eP  | 36.0                    |                 | 4580 | 41.2 |
| Gilmor's Creek   | eP  | 31.4                    |                 | 4600 | 41.4 |
| Mould Bay        | eP  | 02 32.0                 |                 | 5455 | 49.1 |
| Charters Towers  | iP  | 40                      |                 |      |      |
| Resolute         | eP  | 03 17.7 <sup>C</sup>    |                 | 6130 | 55.2 |
| New Dehli        | eP  | 33.0                    |                 | 6355 | 57.2 |
| Kevo             | eP  | 45                      |                 | 6580 | 59.2 |
| Sodankylä        | iP  | 57.2                    |                 | 6770 | 60.9 |
| Edmonton         | eP  | 04 01.0                 |                 | 6830 | 61.5 |
| Kiruna           | iP  | 06.0                    |                 |      |      |
| Nordman          | eP  | 07.0                    |                 | 6910 | 62.2 |
| Oulu             | iP  | 09.7                    |                 |      |      |
| Kajaani          | iP  | 11.7 <sup>D</sup>       |                 | 6990 | 62.9 |
| Warramunga       | eP  | 19.5                    |                 | 7130 | 64.2 |
| Blue M.          | eP  | 26.0                    |                 | 7130 | 64.2 |
| Uméa             | iP  | 28.8                    |                 |      |      |
| Nurmijaerwi      | iP  | 34.9                    |                 | 7390 | 66.5 |
| Bozeman SSS      | eP  | 37.5                    |                 | 7445 | 67.0 |
| Eureka           | eP  | 47.5                    |                 | 7590 | 68.3 |
| Uppsala          | iP  | 51.7                    |                 | 7690 | 69.2 |
| Frobisher        | eP  | 52.6                    |                 | 7720 | 69.5 |
| Dugway           | eP  | 55.6                    |                 | 7745 | 69.7 |
| Lillehammer      | iP  | 57.8                    |                 | 7790 | 70.1 |
| Uinta Basin      | eP  | 05 06.5                 | ePcP 03 05 15.5 | 7945 | 71.5 |
| Glamis           | P   | 17                      |                 | 8120 | 73.1 |
| Tonto Forest     | eP  | 25.1                    | e(PcP) 45.5     | 8280 | 74.5 |
| Krakow           | eP  | 35.9 <sup>C</sup>       |                 |      |      |
| Niedzica         | eP  | 37.5                    |                 |      |      |
| Collm            | iP  | 42.6 <sup>C</sup>       |                 | 8645 | 77.8 |
| Pruhonice        | eiP | 46.5                    |                 | 8710 | 78.4 |
| Moxa             | eP  | 47.5                    |                 | 8755 | 78.8 |
| Kasperské Hory   | eiP | 52.4                    |                 |      |      |
| Erlangen         | eP  | 54.7 <sup>D</sup>       |                 |      |      |
| Fürstenfeldbruck | eP  | 06 00                   |                 | 9010 | 81.1 |
| Champ du Feu     | eP  | 06.3                    |                 |      |      |
| Wichita M.       | eP  | 06.9                    |                 | 9080 | 81.7 |
| St. Sauveur      | eP  | 14.4                    |                 | 9345 | 84.1 |
| Folinigre        | eP  | 15.5                    |                 | 9330 | 84.0 |
| Somme Lormes     | eP  | 17.0                    |                 | 9355 | 84.2 |
| Garchy           | iP  | 18.1 <sup>C</sup>       |                 |      |      |
| Les Buteaux      | iP  | 18.2                    |                 |      |      |
| St. Saulge       | eP  | 18.5                    |                 | 9390 | 84.5 |
| Gorron           | eP  | 19.2                    |                 | 9390 | 84.5 |
| Le Pertre        | eP  | 21.2                    |                 |      |      |
| Lanslevillard    | eiP | 21.6                    | ei 06 34.2      |      |      |
| Roselend         | eP  | 22                      | ei 32.2         |      |      |
| Monteynard       | eP  | 24                      |                 |      |      |
| Toulx Ste Croix  | eP  | 24.5                    |                 |      |      |



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|                |     |            |       |       |
|----------------|-----|------------|-------|-------|
| La Mourre      | eP  | 03 06 30.4 |       |       |
| Lorgues        | eP  | 30.4       |       |       |
| Cumberland Pl. | eP  | 34.0       | 9745  | 87.7  |
| Lamto          | PKP | 12 45.0    | 13855 | 124.7 |

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Iles Kouriles (Réplique)

43° 1' N ; 147° 2' E ; h = 28 km ; H = 03<sup>h</sup>.01<sup>m</sup>44.0<sup>s</sup>. (CGS)  
 43° 7' N ; 147° 1' E ; H = 03<sup>h</sup>.01<sup>m</sup>47.8. (URSS)  
 42° 54' N ; 147° 34' E ; h = 50 km ; H = 03<sup>h</sup>.01<sup>m</sup>41.7<sup>s</sup>. (JMA)

M. = 6.3 (Strasbourg) ; 6.2 (Collm) ; 6.1 (Roma - Mt. Tsukuba - NurmiJaerwi) ;  
 6.0 (Lvov - URSS) ; 5.9 (Kevo) ; 5.8 (New Dehli ; Kap Tobin - København) ;  
 5.7 (Bensberg - Stuttgart) ; 5.6 (Rabaul - Alert - Poona) ; 5.4 (CGS) ;  
 5.3 (Bozeman SSS - Godhavn) ; 5.2 (College) ; 5.1 (North Pole - Dugway -  
 Uinta Basin - Wichita M. - Cumberland Pl.) ; 4.9 (Tonto Forest) ; 4.8 (Albu-  
 querque - Palmer - Gilmore Creek - Eureka) ; 4.7 (Blue M.) ; 4.4 (Golden).

|                |    |                      |    |            |      |      |
|----------------|----|----------------------|----|------------|------|------|
| Nemuro         | 1P | 03 02 07.6           | 1S | 03 02 26.1 | 135  | 1.2  |
| Kourilsk       | 1P | 19.0                 | 1D | 47         | 245  | 2.2  |
| Abashiri       | P  | 24.6                 | S  | 52.0       | 255  | 2.3  |
| Urakawa        | P  | 38.6                 | S  | 03 22.4    | 375  | 3.4  |
| Sapporo        | eP | 51                   | eS | 42         | 480  | 4.3  |
| Hachinohe      | eP | 58.0                 | S  | 51.3       | 550  | 5.0  |
| Miyako         | eP | 03 00.2              | 1S | 57.2       |      |      |
| Morioka        | 1P | 08.0                 | eS | 04 09.6    | 630  | 5.7  |
| Sendai         | eP | 24.0                 | e  | 30.0       | 755  | 6.8  |
| Mt. Tsukuba    | 1P | 48.5                 |    |            | 970  | 8.7  |
| Dodaira        | 1P | 58.2                 |    |            | 1045 | 9.4  |
| Matsushiro     | 1P | 04 01.0              | S  | 05 46      | 1060 | 9.5  |
| Severokourilsk | 1P | 01.5                 | eS | 47.2       | 1089 | 9.7  |
| Kyosumi        | eP | 01.7                 |    |            | 1070 | 9.6  |
| Vladivostok    | 1P | 26.1                 | eS | 06 32      | 1245 | 11.2 |
| Abuyama        | eP | 35.9                 |    |            | 1360 | 12.3 |
| Oishiyama      | eP | 47.8                 |    |            | 1330 | 12.9 |
| Wakaura        | eP | 48.3                 |    |            | 1430 | 12.9 |
| Shiraki        | P  | 05 03.3              |    |            | 1570 | 14.1 |
| Séoul          | eP | 23.6                 |    |            | 1810 | 16.3 |
| Nagasaki       | eP | 45.8                 | eS | 09 07.8    | 1900 | 17.1 |
| Kagoshima      | eP | 53.7                 | eS | 04.0       | 1945 | 17.5 |
| Yakoutsk       | P  | 06 28                |    |            | 2400 | 21.6 |
| Bodajbo        | 1P | 07 07                |    |            | 2815 | 25.3 |
| Oulan Bator    | 1P | 38                   |    |            | 3155 | 28.4 |
| Tiksi          | 1P | 46.2 <sup>D</sup>    |    |            | 3330 | 30.0 |
| Irkoutsk       | 1P | 51.0                 |    |            | 3320 | 29.9 |
| Hong Kong      | eP | 08 33.0              | eS | 03 13 40.0 | 3610 | 34.3 |
| Baguio         | 1P | 35.8                 | eS | 14 05.0    | 3680 | 34.9 |
| Esen Boulak    | 1P | 44                   |    |            | 3980 | 35.8 |
| Barrow         | 1P | 09 09.6 <sup>C</sup> |    |            | 4345 | 39.1 |
| Kodiak         | eP | 16.1                 |    |            | 4420 | 39.8 |

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|                 |    |                    |     |            |      |      |
|-----------------|----|--------------------|-----|------------|------|------|
| Davao           | 1P | 03 09 20°0         | 1S  | 03 14 25°0 | 4510 | 40°6 |
| Palmer          | eP | 27°5               |     |            | 4580 | 41°3 |
| College         | eP | 30°7               | 1   | 09 44°0    | 4620 | 41°6 |
| Gilmore Creek   | eP | 32°0               |     |            | 4645 | 41°8 |
| Semipalatinsk   | P  | 58°7               |     |            | 5005 | 45°0 |
| Rabaul          | eP | 10 14 <sup>D</sup> |     |            | 5255 | 47°3 |
| Shillong        | 1P | 23°0               |     |            | 5330 | 48°0 |
| North Pole      | eP | 31°7               |     |            | 5490 | 49°4 |
| Talgar          | 1P | 36                 |     |            | 5500 | 49°5 |
| Chittagong      | eP | 40                 |     |            | 5555 | 50°0 |
| Chatra          | 1P | 45                 |     |            | 5640 | 50°8 |
| Frounze         | 1P | 50 <sup>C</sup>    |     |            | 5725 | 51°5 |
| Alert           | eP | 11 03°4            |     |            | 5980 | 53°8 |
| Sverdlovsk      | 1P | 04 <sup>C</sup>    |     |            | 5960 | 53°6 |
| Bokaro          | 1P | 07                 |     |            | 5945 | 53°5 |
| Station Nord    | eP | 13°0               |     |            | 6150 | 55°3 |
| Resolute        | 1P | 17°0 <sup>C</sup>  |     |            | 6190 | 55°6 |
| Tachkent        | eP | 21 <sup>D</sup>    |     |            | 6190 | 55°7 |
| Bakhra          | eP | 22                 |     |            | 6220 | 56°0 |
| Khorog          | 1P | 24 <sup>C</sup>    |     |            | 6240 | 56°2 |
| Mangla          | eP | 27°5               |     |            | 6325 | 56°9 |
| New Dehli       | 1P | 28°8               | eS  | 19 20      | 6320 | 56°9 |
| Douchambé       | 1P | 33 <sup>C</sup>    | eS  | 26         | 6385 | 57°5 |
| Samarkand       | P  | 33                 |     |            | 6450 | 58°1 |
| Warsak          | P  | 37                 |     |            | 6445 | 58°0 |
| Kirkenes        | 1P | 39°5               |     |            | 6510 | 58°6 |
| Apatity         | eP | 42                 |     |            | 6555 | 59°0 |
| Kevo            | 1P | 43°9               | eSS | 24 08      | 6600 | 59°4 |
| Sodankylä       | 1P | 55°8               |     |            | 6790 | 61°1 |
| Edmonton        | eP | 12 02°0            |     |            | 6880 | 61°9 |
| Kiruna          | 1P | 04°8               |     |            | 6930 | 62°4 |
| Newport         | eP | 07°0               |     |            | 6980 | 62°8 |
| Nordman         | eP | 07°0               |     |            | 6955 | 62°6 |
| Oulu            | 1P | 07°7               |     |            | 6990 | 62°9 |
| Kajaani         | 1P | 10°0 <sup>D</sup>  |     |            | 7010 | 63°1 |
| Spokane         | 1P | 10°6               |     |            | 7000 | 63°0 |
| Charters Towers | eP | 12                 | 1S  | 20 33      | 6980 | 62°8 |
| Quetta          | 1P | 13°1 <sup>C</sup>  |     |            | 7045 | 63°4 |
| Warramunga      | eP | 15                 |     |            | 7090 | 63°8 |
| Blue M.         | eP | 20°5               |     |            | 7190 | 64°7 |
| Madras          | eP | 21                 | eS  | 21 06      | 7165 | 64°5 |
| Vannovskaya     | P  | 22                 |     |            | 7200 | 64°8 |
| Mashad          | eP | 24                 |     |            | 7200 | 64°8 |
| Kizyl_Arvat     | P  | 24 <sup>D</sup>    |     |            | 7245 | 65°2 |
| Moskva          | P  | 24 <sup>D</sup>    |     |            | 7220 | 65°0 |
| Poulkovo        | 1P | 25 <sup>D</sup>    |     |            | 7245 | 65°2 |
| Uméa            | 1P | 25°2 <sup>C</sup>  |     |            | 7275 | 65°5 |
| Oroville        | 1P | 25°4               |     |            | 7255 | 65°3 |
| Poona           | 1P | 26 <sup>C</sup>    |     |            | 7280 | 65°5 |
| Bombay          | eP | 30                 | eS  | 21 21      | 7340 | 66°1 |

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|                |     |       |                   |      |          |      |      |
|----------------|-----|-------|-------------------|------|----------|------|------|
| Godhavn        | eP  | 03 12 | 32°0              |      |          | 7445 | 67°0 |
| Kap Tobin      | 1P  |       | 32°2              |      |          | 7400 | 66°6 |
| Nurmijaerwi    | 1P  |       | 32°5              | eS   | 03 21 24 | 7400 | 66°6 |
| Butte          | eP  |       | 33°0              |      |          | 7400 | 66°6 |
| Jamestown      | eP  |       | 36°4 <sup>D</sup> |      |          | 7430 | 66°9 |
| San Luis Dam   | 1P  |       | 36°9              |      |          | 7430 | 66°9 |
| Bozeman SSS    | 1P  |       | 38°4              |      |          | 7490 | 67°4 |
| Skalstugan     | 1P  |       | 41°3              |      |          | 7535 | 67°8 |
| Priest         | eP  |       | 43°0              |      |          | 7535 | 67°8 |
| Eureka         | 1P  |       | 47°5              |      |          | 7630 | 68°7 |
| Uppsala        | 1P  |       | 49°7 <sup>C</sup> |      |          | 7710 | 69°4 |
| Frobisher      | eP  |       | 52°0              |      |          | 7770 | 69°9 |
| Kirovabad      | P   |       | 54                |      |          | 7815 | 70°3 |
| Poti           | 1P  |       | 55°4              |      |          |      |      |
| Lillehammer    | 1P  |       | 56°0              |      |          | 7810 | 70°3 |
| Dugway         | eP  |       | 56°6              |      |          | 7790 | 70°1 |
| Téhéran        | e1P |       | 57°5 <sup>C</sup> |      |          | 7820 | 70°4 |
| Salt Lake City | eP  |       | 57°9              |      |          | 7810 | 70°3 |
| Tbilisi        | P   |       | 59                |      |          | 7835 | 70°5 |
| Pasadena       | 1P  | 13 00 |                   | 1dP  | 13 08    | 7855 | 70°7 |
| Akureyri       | eP  |       | 03                |      |          | 7890 | 71°0 |
| Goris          | 1P  |       | 03 <sup>C</sup>   | 1S   | 22 21    | 7895 | 71°1 |
| Brisbane       | eP  |       | 03°0              |      |          | 7810 | 70°3 |
| Boulder City   | eP  |       | 05°0              |      |          | 7955 | 71°6 |
| Flaming Gorge  | eP  |       | 05°2              |      |          | 7955 | 71°6 |
| Kongsberg      | eP  |       | 05°3              |      |          | 7980 | 71°8 |
| Uinta Basin    | eP  |       | 06°8              | ePcP | 13 16°0  | 7990 | 71°9 |
| Tabriz         | 1P  |       | 08°5              | 1S   | 22 34    | 8000 | 72°0 |
| Bergen         | 1P  |       | 08°5              |      |          | 8030 | 72°3 |
| Karlskrona     | 1P  |       | 10°3              |      |          | 8110 | 73°0 |
| Göteborg       | 1P  |       | 10°9              |      |          | 8090 | 72°8 |
| Glen Canyon    | eP  |       | 13°0              | 1sP  | 13 22°0  | 8110 | 73°0 |
| Sida           | eP  |       | 14                |      |          | 8090 | 72°8 |
| Chiraz         | 1P  |       | 16°2              |      |          | 8130 | 73°2 |
| Simferopol     | eP  |       | 19                |      |          | 8225 | 74°0 |
| Köbenhavn      | 1P  |       | 20°0              | eS   | 23 04    | 8270 | 74°4 |
| Kichinev       | eP  |       | 24 <sup>C</sup>   |      |          | 8335 | 75°0 |
| Golden         | eP  |       | 24°2              |      |          | 8300 | 74°7 |
| Tonto Forest   | eP  |       | 24°9              | eS   | 00°0     | 8320 | 74°9 |
| Iasy           | P   |       | 28 <sup>C</sup>   |      |          | 8385 | 75°5 |
| Tucson         | eP  |       | 33°2              |      |          | 8510 | 76°6 |
| Krakow         | eP  |       | 33°4 <sup>C</sup> | e    | 14 09°1  | 8490 | 76°4 |
| Oujgorod       | eP  |       | 35                |      |          | 8515 | 76°6 |
| Niedzica       | eP  |       | 35°5 <sup>C</sup> |      |          | 8530 | 76°8 |
| Vrincioaia     | P   |       | 37 <sup>C</sup>   |      |          | 8540 | 76°8 |
| Raciborg       | eP  |       | 37                |      |          | 8565 | 77°1 |
| Albuquerque    | eP  |       | 39°0              | e    | 13 53°0  | 8600 | 77°4 |
| Collm          | 1P  |       | 40°1 <sup>C</sup> | e    | 53       | 8655 | 77°9 |
| Rybnick        | eP  |       | 41                |      |          | 8550 | 76°9 |
| Praha          | eP  |       | 44                |      |          | 8720 | 78°5 |
| Campulung      | P   |       | 44 <sup>D</sup>   |      |          | 8675 | 78 1 |

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|                  |      |                    |      |             |      |       |
|------------------|------|--------------------|------|-------------|------|-------|
| Pruhonice        | e1P  | 03 13 45           | eS   | 03 23 31    | 8720 | 78° 5 |
| Moxa             | eP   | 46 <sup>C</sup>    |      |             | 8770 | 78° 9 |
| Bratislava       | 1P   | 46° 4              | i    | 14 05° 8    | 8785 | 79° 1 |
| Canberra         | eP   | 47                 | eS   | 23 23       | 8770 | 78° 0 |
| Wien             | e1P  | 48° 7              |      |             | 8805 | 79° 3 |
| Istanbul UTI     | 1P   | 49 <sup>C</sup>    | e(S) | 51          | 8820 | 79° 4 |
| Kasperské Hory   | 1P   | 50° 0              |      |             | 8845 | 79° 6 |
| Manhattan        | eP   | 50° 0              |      |             | 8870 | 79° 8 |
| Bensberg         | 1P   | 52° 5              | e    | 14 21       | 8900 | 80° 1 |
| Beograd          | eP   | 54° 9              | e    | 08° 8       | 8930 | 80° 4 |
| Toolangi         | eP   | 57° 0              |      |             | 8920 | 80° 3 |
| Sofia            | eP   | 57° 9              |      |             | 8985 | 80° 9 |
| Fürstenfeldbruck | eP   | 58                 | epP  | 08          | 9020 | 81° 2 |
| Stuttgart        | eP   | 58° 4 <sup>C</sup> |      |             | 9030 | 81° 3 |
| Ksara            | 1P   | 59                 |      |             | 9005 | 81° 0 |
| Ljubljana        | P    | 14(00)             |      |             | 9090 | 81° 8 |
| Lubbock          | eP   | 00° 0              |      |             | 9000 | 81° 0 |
| Buhlerhöhe       | eP   | 01° 6              |      |             | 9085 | 81° 7 |
| Karlsruhe        | eP   | 02° 0              |      |             | 9045 | 81° 4 |
| Wichita M.       | eP   | 02° 9              |      |             | 9120 | 82° 1 |
| Luxembourg       | P    | 03                 | e    | 42          | 9070 | 81° 6 |
| Trieste          | 1P   | 04                 | e1S  | 24 16       | 9155 | 82° 4 |
| Champ du Feu     | eP   | 04° 2              |      |             | 9145 | 82° 3 |
| Welschbruch      | eP   | 04° 7              |      |             | 9140 | 82° 2 |
| Skopje           | 1P   | 04° 8              |      |             | 9140 | 82° 3 |
| Strasbourg       | e1P  | 06                 | e1S  | 24          | 9110 | 82° 0 |
| Tulsa            | 1P   | 07° 0 <sup>D</sup> |      |             | 9190 | 82° 7 |
| Haudompré        | eP   | 07° 5              |      |             | 9215 | 82° 9 |
| Karlsruhe        | eP   | 07° 6 <sup>C</sup> |      |             | 9045 | 81° 4 |
| Basel            | P    | (08° 6)            |      |             | 9215 | 83° 0 |
| Jérusalem        | 1P   | 10° 1 <sup>D</sup> |      |             | 9210 | 82° 9 |
| Rhodes           | eP   | 12° 1              |      |             | 9255 | 83° 3 |
| Ottawa           | eP   | 14° 0              |      |             | 9330 | 84° 0 |
| St. Sauveur      | eP   | 14° 4              |      |             | 9370 | 84° 3 |
| Sompeé Lornès    | 1P   | 14° 8              |      |             | 9330 | 84° 4 |
| Folinière        | eP   | 15° 1              |      |             | 9355 | 84° 2 |
| Les Buteaux      | eP   | 15° 9              |      |             | 9395 | 84° 6 |
| St. Saulge       | eP   | 16° 2              |      |             | 9400 | 84° 6 |
| Garchy           | 1P   | 16° 3              | i    | 03 14 30° 5 | 9395 | 84° 6 |
| Vouglans         | e1P  | 16° 7              | ei   | 52° 9       | 9400 | 84° 6 |
| Gorron           | eP   | 17° 0              |      |             | 9410 | 84° 7 |
| Brébeuf          | eP   | 17                 |      |             | 9400 | 84° 6 |
| Roselend         | eP   | 18° 0              | ei   | 14 31° 7    | 9435 | 84° 9 |
| Le Pertre        | eP   | 19° 0              |      |             | 9450 | 85° 0 |
| Lanslevillard    | e1P  | 19° 3              | ei   | 26° 2       | 9480 | 85° 2 |
| l'Aquila         | e1P  | 22                 | 1S   | 25 00       | 9480 | 85° 3 |
| Toulx Ste Croix  | eP   | 22° 2              |      |             | 9525 | 85° 7 |
| Clermont         | eP   | 22° 5 <sup>C</sup> |      |             | 9550 | 85° 9 |
| Isola            | 1P   | 23° 6              |      |             | 9570 | 86° 1 |
| Roma             | (e)P | 24° 4              | eS   | 00° 4       | 9570 | 86° 1 |

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|                      |                   |       |      |      |            |       |       |
|----------------------|-------------------|-------|------|------|------------|-------|-------|
| Monteynard           | eIP               | 03 14 | 24.5 |      |            | 9540  | 85.8  |
| Monaco               | eP                |       | 25   |      |            | 9595  | 86.5  |
| St. Paul en Foret    | eP                |       | 26.5 |      |            | 9640  | 86.8  |
| Vamos                | eP                |       | 27.0 |      |            | 9575  | 86.2  |
| Lorgues              | eP                |       | 28.0 |      |            | 9660  | 87.0  |
| Weston               | eP                |       | 28.0 | eS   | 03 25 15.0 | 9800  | 88.2  |
| La Mourre            | eP                |       | 28.1 |      |            | 9665  | 87.0  |
| Morgantown           | iP                |       | 30.1 |      |            | 9700  | 87.3  |
| Tarraleah            | e(P)              |       | 32.0 |      |            | 9445  | 85.0  |
| Tasmanian Univ.      | e(P)              |       | 33.0 |      |            | 9510  | 85.6  |
| Cumberland Pl.       | eP                |       | 33.6 |      |            | 9790  | 88.1  |
| Oak Ridge            | eP                |       | 37.7 |      |            | 9820  | 88.4  |
| Blacksburg           | iP                |       | 38.2 |      |            | 9900  | 89.1  |
| Washington Sci' Cen. | eP                |       | 39.5 |      |            | 9880  | 88.9  |
| Toledo               | eIP               |       | 59.1 | e    | 28 00      | 10380 | 93.4  |
| Sétif                | eP                | 15    | 01   |      |            | 10420 | 93.8  |
| Ifrane               | eP                |       | 27   |      |            | 11080 | 99.7  |
| Bangui               | iPKP <sub>1</sub> | 20    | 24.3 | 1PP  | 21 05.3    | 12850 | 113.9 |
| Broken Hill          | ePKP              |       | 36   | e    | 22 03      | 13400 | 120.6 |
| Karol                | ePKP              |       | 37   |      |            | 13490 | 121.4 |
| Lanto                | PKP               |       | 42.9 |      |            | 13370 | 124.8 |
| Bulawayo             | ePKP              |       | 44   |      |            | 13300 | 124.2 |
| Changalane           | PKP               |       | 46.0 |      |            | 13920 | 125.3 |
| Butare               | eIPP              | 21    | 01.2 |      |            | 12400 | 111.6 |
| Huancayo             | PKP               |       | 05.1 |      |            | 14670 | 132.0 |
| Arequipa             | PKP               |       | 11.5 |      |            | 15310 | 137.8 |
| La Paz               | PKP               |       | 13   | DPKP | 21 23      | 15555 | 140.0 |
| South Pole           | (PKP)             |       | 13.8 |      |            | 14770 | 132.9 |
| Penas                | PKP               |       | 14.4 |      |            | 15510 | 139.6 |
| Novo Lazarevskaya    | ePKP <sub>1</sub> |       | 17   |      |            | 16016 | 144.6 |
| Antofagasta          | ePKP              |       | 17.9 |      |            | 15945 | 143.5 |
| Peldehue             | ePKP              |       | 31.1 |      |            | 16530 | 148.3 |
| Chileka              | ePP               |       | 39   |      |            | 12970 | 116.7 |

Inscrit à Pavia - Messina - M'Bour - De Bilt - Ponta Delgada -  
Longmire - Porto - Valsamata - Tamanrasset.

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Iles Kouriles

43° 3' N ; 147° 4' E ; h = 33 km ; H = 03<sup>h</sup>.23<sup>mn</sup>41.9<sup>s</sup>. (CGS)  
43° 8' N ; 147° 9' E ; H = 03<sup>h</sup>.23<sup>mn</sup>37.8<sup>s</sup>. (URSS)  
42° 59' N ; 147° 17' E ; h = 0 km ; H = 03<sup>h</sup>.23<sup>mn</sup>40.5<sup>s</sup>. (JMA)

M. = 5.9 (Mt. Tsukuba) ; 5.5 (Nurmijaerwi - Stuttgart) ; 5.3 (Bensberg - JMA -  
Shillong) ; 5.1 (College) ; 5.0 (North Pole) ; 4.9 (CGS - Eureka) ; 4.8 (Bozeman SSS  
Cumberland Pl.) ; 4.8 (Palmer - Uinta Basin - Wichita M. -) ; 4.5 (Blue M. -  
Dugway) ; 4.3 (Tonto Forest)

Nemuro                      iP              03 24 06.4              eS              03 24 25

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|               |    |                      |    |          |      |                   |
|---------------|----|----------------------|----|----------|------|-------------------|
| Obihiro       | eP | 03 24 32             | e  | 03 25 30 |      |                   |
| Sapporo       | eP | 51                   |    |          |      |                   |
| Hachinohe     | eP | 53°5                 | S  | 54°4     |      |                   |
| Morioka       | P  | 25 08°8              | e  | 26 11°6  |      |                   |
| Mizusawa      | eP | 16°5                 | eS | 22°1     |      |                   |
| Sendai        | e  | 25                   | e  | 33°4     |      |                   |
| Mt. Tsukuba   | 1P | 50°0                 | e  | 02°0     | 1000 | 9°0               |
| Dodaira       | eP | 59°3                 |    |          | 1080 | 9°7               |
| Matsushiro    | 1P | 26 01°9              | S  | 27 50    |      |                   |
| Kyosumi       | eP | 02°5                 |    |          | 1100 | 9°9               |
| Vladivostok   | eP | 26                   | eS | 28 35    |      |                   |
| Abuyama       | 1P | 38°5                 |    |          |      |                   |
| Oishiyama     | eP | 54°7                 |    |          | 1470 | 13°2              |
| Shiraki       | P  | 27 04°0              |    |          | 1600 | 14°4              |
| Yakoutsk      | 1P | 28 25 <sup>D</sup>   |    |          |      |                   |
| Edo           | P  | 29 04°5              |    |          |      |                   |
| Tiksi         | eP | 42                   |    |          |      |                   |
| Barrow        | eP | 31 04°3              |    |          | 4310 | 38°8              |
| Palmer        | eP | 22°3                 |    |          | 4545 | 40°9              |
| College       | 1P | 27°2                 |    |          | 4590 | 41°3              |
| Gilmore Creek | eP | 27°7                 |    |          | 4610 | 41°5              |
| Shillong      | 1P | 32 21 <sup>C</sup>   |    |          | 5355 | 48°2              |
| North Pole    | eP | 28°5                 |    |          | 5470 | 49°2              |
| Frounze       | 1P | 47 <sup>C</sup>      |    |          |      |                   |
| Resolute      | eP | 33 12°8 <sup>C</sup> | i  | 37 14°0  | 6145 | 55°3              |
| Garm          | eP | 21                   |    |          |      |                   |
| Khorog        | eP | 23                   |    |          |      |                   |
| New Dehli     | 1P | 27 <sup>C</sup>      | eS | 41 20    |      |                   |
| Douchambé     | eP | 32 <sup>C</sup>      |    |          |      |                   |
| Warsak        | 1P | 35                   |    |          |      |                   |
| Kevo          | eP | 41                   |    |          | 6540 | 59°2              |
| Sodankylä     | 1P | 51°8                 |    |          | 6780 | 61°0              |
| Edmohton      | eP | 57°0                 |    |          | 6845 | 61°6              |
| Kiruna        | 1P | 34 01°1              |    |          |      |                   |
| Nordman       | eP | 02°0                 |    |          | 6930 | 61°4              |
| Newport       | eP | 04°0                 |    |          | 6945 | 62°5              |
| Oulu          | 1P | 04°1                 |    |          |      |                   |
| Kajaani       | eP | 05                   |    |          | 6990 | 62°9              |
| Quetta        | eP | 11°6 <sup>D</sup>    |    |          | 7055 | 63°5              |
| Warramunga    | eP | 14°5                 | e  | 37 52°5  | 7120 | 64°1              |
| Blue          | eP | 17°4 <sup>C</sup>    |    |          | 7155 | 64°4              |
| Vannovskaya   | P  | 20                   |    |          |      |                   |
| Uméa          | 1P | 21°6                 |    |          |      |                   |
| Poona         | eP | 25                   |    |          |      |                   |
| NurmiJaerwi   | 1P | 29°0                 |    |          | 7390 | 66°5              |
| Lillehammer   | P  | 32°8 <sup>C</sup>    |    |          |      |                   |
| Bozeman SSS   | eP | 33°6                 |    |          | 7455 | 67°1              |
| Eureka        | 1P | 43°5                 |    |          | 7600 | 68°4              |
| Uppsala       | 1P | 47°5 <sup>C</sup>    |    |          | 7700 | 69 <sup>M</sup> 3 |
| Frobisher     | eP | 47°6 <sup>C</sup>    |    |          | 7730 | 69°6              |

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|                  |     |                   |      |                    |      |      |
|------------------|-----|-------------------|------|--------------------|------|------|
| Dugway           | eP  | 03 34 51.4        | e    | 03 34 58.4         | 7770 | 69°9 |
| Téhéran          | eiP | 55.5 <sup>C</sup> |      |                    | 7820 | 70°4 |
| Brisbane         | eP  | 59.0              |      |                    | 7830 | 70°5 |
| Goris            | eP  | 35 00             |      |                    |      |      |
| Kirovabad        | eP  | 00                |      |                    |      |      |
| Bakouriani       | eP  | 01.4              |      |                    |      |      |
| Kongsberg        | iP  | 01.5              |      |                    | 7970 | 71°7 |
| Uinta Basin      | eP  | 02.0              | ePcP | 35 17.0            | 7970 | 71°7 |
| Tabriz           | eiP | 07                |      |                    | 8000 | 72°0 |
| Göteborg         | iP  | 07.9              |      |                    |      |      |
| Bergen           | eP  | 10.0              |      |                    | 8010 | 73°2 |
| Glamis           | P   | 12                | i    | 19                 | 8130 | 73°2 |
| Chiraz           | P   | 14.0              |      |                    | 8145 | 73°3 |
| Simferopol       | eP  | 17                |      |                    |      |      |
| Tonto Forest     | eP  | 20.3              | ePP  | 38 07.8            | 8300 | 74°7 |
| Lvov             | eP  | 22                |      |                    |      |      |
| Iasy             | P   | 23                | P    | 35 26 <sup>C</sup> |      |      |
| Tucson           | eP  | 28.5              |      |                    | 8480 | 76°3 |
| Raciborz         | eP  | 29                |      |                    |      |      |
| Krakow           | eP  | 30 <sup>C</sup>   |      |                    |      |      |
| Oujgorod         | eP  | 31                |      |                    |      |      |
| Niedzica         | eP  | 32 <sup>C</sup>   |      |                    |      |      |
| Vrincioaia       | P   | 34 <sup>C</sup>   |      |                    |      |      |
| Albuquerque      | eP  | 34.6              |      |                    | 8570 | 77°1 |
| Collm            | eiP | 37.4 <sup>C</sup> | i    | 49.1               | 8645 | 77°8 |
| Moxa             | eP  | 42.5              |      |                    | 8755 | 78°8 |
| Pruhonice        | eiP | 42.5              |      |                    | 8710 | 78°4 |
| Bratislava       | eiP | 43.4              |      |                    |      |      |
| Kasperské Hory   | eiP | 47                |      |                    | 8830 | 79°5 |
| Erlangen         | eP  | 48.8 <sup>C</sup> |      |                    |      |      |
| Bensberg         | eP  | 49.3              | e    | 36 02.5            | 8890 | 80°0 |
| Fürstenfeldbruck | eP  | 55                |      |                    | 9010 | 81°1 |
| Stuttgart        | eP  | 55.8 <sup>C</sup> |      |                    | 9020 | 81°2 |
| Wittween         | eP  | 56                |      |                    |      |      |
| Luxembourg       | P   | 36 00             |      |                    | 9055 | 81°5 |
| Wichita M.       | eP  | 00.0              |      |                    | 9090 | 81°8 |
| Trieste          | eP  | 01.5              | e    | 07.5               | 9145 | 82°3 |
| Skopje           | eP  | 01.5              |      |                    |      |      |
| Champ du Feu     | eP  | 03.3              |      |                    |      |      |
| Welschbruch      | iP  | 02.3              | i    | 13.7               |      |      |
| Haudompré        | iP  | 05.2              |      |                    |      |      |
| Ljubljana        | eP  | (06)              |      |                    |      |      |
| Folinjere        | eP  | 11.5              |      |                    | 9345 | 84°2 |
| Sommée Lormes    | eP  | 11.6              |      |                    | 9355 | 84°2 |
| St. Sauveur      | eP  | 12.1              |      |                    | 9345 | 84°1 |
| Les Buteaux      | eP  | 12.9              |      |                    |      |      |
| Garchy           | iP  | 13.0 <sup>C</sup> |      |                    |      |      |
| St. Saulge       | eP  | 13.2              |      |                    | 9390 | 84°5 |
| Vouglans         | eP  | 14                | e    | 25                 |      |      |
| Gorron           | eP  | 14.0              |      |                    | 9390 | 84°5 |
| Roselend         | eP  | 15.0              | ei   | 27.1               |      |      |

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|                   |                   |       |      |    |       |       |
|-------------------|-------------------|-------|------|----|-------|-------|
| Le Per tre        | eP                | 03 36 | 16.4 |    |       |       |
| Lanslevillard     | eP                |       | 17   | ei | 03 26 | 23.7  |
| Toulx Ste Croix   | eP                |       | 19.9 |    |       |       |
| Monteynard        | eP                |       | 20   |    |       |       |
| St. Paul en Foret | eP                |       | 24.2 |    |       |       |
| Lorgues           | eP                |       | 25.6 |    |       |       |
| La Mourre         | eP                |       | 25.7 |    |       |       |
| Cumberland Pl.    | eP                |       | 29.9 |    | 9755  | 87.8  |
| Oak Ridge         | eP                |       | 35.0 |    | 9790  | 88.1  |
| Lamto             | PKP               | 42    | 39.1 |    | 13555 | 124.7 |
| Penas             | ePKP              | 43    | 10   |    |       |       |
| La Paz            | ePKP              |       | 10.9 |    | 15530 | 139.8 |
| Novo_Lazarevskaya | ePKP <sub>1</sub> |       | 16   |    |       |       |

Inscrit à Porto.

XII.- 30 Janvier

Iles Kouriles.

H = 03<sup>h</sup>. 27<sup>mn</sup>09<sup>s</sup>. (Uppsala)

|                 |     |       |                   |    |       |      |
|-----------------|-----|-------|-------------------|----|-------|------|
| Kevo            | 1P  | 03 37 | 05.8              |    |       |      |
| Sodankylä       | eP  |       | 18                |    |       |      |
| Kiruna          | 1P  |       | 27.8              |    |       |      |
| Oulu            | eP  |       | 30                |    |       |      |
| Kajaani         | 1P  |       | 33.5              |    |       |      |
| Umeå            | 1P  |       | 49.0              |    |       |      |
| Nurmijaerwi     | eP  |       | 56                |    |       |      |
| Uppsala         | 1P  | 38    | 12.5              |    |       |      |
| Collm           | eP  | 39    | 03                |    |       |      |
| Moxa            | eP  |       | 05                |    |       |      |
| Pruhonice       | eP  |       | 08                |    |       |      |
| Kasperske Hory  | e1P |       | 13.5              |    |       |      |
| Erlangen        | eP  |       | 17.3 <sup>D</sup> |    |       |      |
| Roselend        | eP  |       | 40                | e  | 03 39 | 51   |
| Sommée Lormes   | eP  |       | 42.0              |    |       |      |
| Les Buteaux     | eP  |       | 42.2              |    |       |      |
| St. Saulge      | eP  |       | 43.2              |    |       |      |
| Toulx Ste Croix | eP  |       | 46.2              |    |       |      |
| Lanslevillard   | eP  |       | 47                | ei |       | 55.4 |

XIII.- 30 Janvier

Iles Kouriles

H = 03<sup>h</sup>. 29<sup>mn</sup>52<sup>s</sup>.

|           |    |       |      |  |  |  |
|-----------|----|-------|------|--|--|--|
| Sodankylä | eP | 03 40 | 02   |  |  |  |
| Oulu      | eP |       | 13   |  |  |  |
| Kajaani   | eP |       | 14   |  |  |  |
| Umeå      | 1P |       | 29.3 |  |  |  |



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|                 |     |       |      |   |            |
|-----------------|-----|-------|------|---|------------|
| Nurmijaervi     | iP  | 03 40 | 38°0 |   |            |
| Lillehammer     | iP  | 41    | 01°0 |   |            |
| Erlangen        | eP  |       | 07   |   |            |
| Niedzica        | eP  |       | 41   |   |            |
| Collm           | eP  |       | 45   |   |            |
| Pruhonice       | eP  |       | 48   |   |            |
| Kasperské Hory  | eIP |       | 55°5 |   |            |
| Sommée Lormes   | eP  | 42    | 22°1 |   |            |
| St Saulge       | eP  |       | 22°1 |   |            |
| Roselend        | eP  |       | 23   | e | 03 42 35°6 |
| Les Buteaux     | eP  |       | 23°1 |   |            |
| Lanslevillard   | eP  |       | 25   | e | 38         |
| Toulx Ste Croix | eP  |       | 29°3 |   |            |

XIV. 30 Janvier  
Java

6° 1S, 113° 3E. h = 594 km H = 03<sup>h</sup>44<sup>mn</sup>24<sup>n</sup>.4<sup>s</sup> (CGS)  
 6° 2S, 113° 5E h = 590 km H = 03<sup>h</sup>44<sup>mn</sup>23<sup>s</sup> (URSS)

M = 6.8 (Anpu), 6.5 (Riverview), 6.4 (Uppsala, Kiruna, Nurmijaervi),  
 6.3 (Windhoek), 6.2 (Stuttgart, CGS), 6.1 (Kajaani), 6.0 (Kevo), 5.9  
 (Palmer), 5.8 (Kalgoorlie), 5.6 (North Pole).

|                 |      |       |       |      |            |           |
|-----------------|------|-------|-------|------|------------|-----------|
| Lembang         | iP   | 03 46 | 04°5  |      | 630        | 5°7       |
| Davao           | iP   | 48    | 01°6  | i    | 03 50 05°0 | 1990 17°9 |
| Darwin          | eP   |       | 04°0  |      |            | 2045 18°4 |
| Baguio          | iP   |       | 50°0  | iS   | 51 30°0    | 2600 23°4 |
| Manila          | e(P) |       | 57    | eS   | 29         | 2445 22°0 |
| Warramunga      | eP   | 49    | 00    | e    | 52 33      | 2740 24°7 |
| Kalgoorlie      | iP   |       | 09°8C |      |            | 2870 25°8 |
| Mundaring       | iP   |       | 11°8C |      |            | 2875 25°9 |
| Port Blair      | iP   |       | 24D   | iS   | 53 17      | 3005 27°0 |
| Hong Kong       | iP   |       | 35°0  |      |            | 3130 28°2 |
| Tawu            | eP   |       | 41°6  |      |            | 3250 29°2 |
| Hengchun        | eP   |       | 42°5  |      |            | 3205 28°9 |
| Tai tung        | P    |       | 47°1  |      |            | 3300 29°7 |
| Hsinkong        | P    |       | 51°4  |      |            | 3340 30°1 |
| Hwalien         | P    |       | 57°7  | S    | 54 20°5    | 3440 31°0 |
| Tai chung       | eP   |       | 59°0  |      |            | 3435 30°9 |
| Taipei          | eP   | 50    | 06°1  |      |            | 3550 32°0 |
| Anpu            | eP   |       | 06°2  |      |            | 3555 32°0 |
| Port Moresby    | iP   |       | 19°0D | eS   | 55 00      | 3745 33°7 |
| Charters Towers | iP   |       | 29D   | iS   | 09         | 3880 34°9 |
| Chittagong      | P    |       | 36    |      |            | 3915 35°2 |
| Guam            | iP   |       | 45°5  | eScP | 40°0       | 4100 36°9 |
| Adelaide        | iP   |       | 47    | iS   | 48°4       | 4120 37°1 |
| Shillong        | iP   |       | 54    | iS   | 56 03      | 4195 37°7 |
| Madras          | iP   |       | 55D   | iS   | 03         | 4220 38°0 |
| Vishakhapatnam  | iP   | 51    | 01D   |      |            | 4215 37°9 |
| Kodaikanal      | iP   |       | 05D   | i    | 53 00      | 4355 39°2 |
| Trivandrum      | iP   |       | 06    | i    | 56 19      | 4335 39°0 |

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|                   |     |          |      |          |      |      |
|-------------------|-----|----------|------|----------|------|------|
| Chatra            | iP  | 03 51 23 | e    | 03 56 35 | 4600 | 41°4 |
| Toolangi          | iP  | 33°6     | iS   | 57 17°0  | 4770 | 42°9 |
| Brisbane          | iP  | 35D      | iS   | 13       | 4780 | 43°0 |
| Shiraki           | P   | 44°1     |      |          | 4920 | 44°3 |
| Riverview         | iP  | 47°1     | iSP  | 53 17°0  | 4955 | 44°6 |
| Séoni             | eP  | 47°2     |      |          | 5020 | 45°2 |
| Oishiyama         | iP  | 50°5C    |      |          | 5000 | 45°0 |
| Wakaura           | eP  | 50°7     |      |          | 5000 | 45°0 |
| Sehore            | iP  | 56       | iS   | 57 51    | 5090 | 45°8 |
| Poona             | iP  | 56°5     | eS   | 56       | 5110 | 46°0 |
| Honiara           | iP  | 52(00)   | iS   | 58 02    | 5145 | 46°3 |
| Abuyama           | iP  | 01°2     |      |          | 5090 | 45°8 |
| Tarraleah         | iP  | 01°5D    | i    | 56 19°5  | 5170 | 46°5 |
| Savannah          | iP  | 01°9D    |      |          | 5170 | 46°5 |
| Moorlands         | iP  | 04°1D    |      |          | 5220 | 47°0 |
| Bombay            | eP  | 05       | iS   | 58 11    | 5220 | 47°0 |
| Tasmania Univ.    | iP  | 07°2     | i    | 52 47°5  | 5270 | 47°4 |
| Kyosumi           | iP  | 11°8     | iPcP | 53 29°8  | 5355 | 48°2 |
| Dodai ra          | iP  | 14°0     | iPcO | 30°9     | 5380 | 48°4 |
| Matsushiro        | iP  | 14°5     |      |          | 5380 | 48°4 |
| Mt Tsukuba        | iP  | 17°5     | eS   | 58 35°6  | 5445 | 48°0 |
| New Dehli         | eP  | 19       | eS   | 36       | 5445 | 49°0 |
| Bhakra            | eP  | 36       | e    | 59 07    | 5700 | 51°3 |
| Koumac            | iP  | 36°9D    | iS   | 15       | 5710 | 51°4 |
| Vladivostok       | iP  | 40C      | iS   | 19       | 5755 | 51°8 |
| Lahore            | iP  | 46       | S    | 27       | 5860 | 52°8 |
| Luganville        | iP  | 52°5D    |      |          | 5945 | 53°5 |
| Nouméa            | iP  | 53°7D    | iS   | 43       | 5970 | 53°7 |
| Mangla            | eP  | 55°9     | iS   | 45°5     | 6015 | 54°1 |
| Oulan Bator       | iP  | 57       |      |          | 6010 | 54°1 |
| Esen Boulak       | eP  | 53 01    |      |          | 6045 | 54°4 |
| Port Vila         | iP  | 02°3D    | iS   | 04 00 01 | 6090 | 54°8 |
| Warsak            | iP  | 15       |      |          | 6255 | 56°3 |
| Quetta            | iP  | 17°5D    | eS   | 25°2     | 6355 | 57°2 |
| Irkoutsk          | eP  | 28       | e    | 48       | 6515 | 58°6 |
| Youjno Sakhalinsk | iP  | 30       |      |          | 6550 | 59°0 |
| Talgar            | iP  | 31D      |      |          | 6545 | 58°9 |
| Garm              | iP  | 36D      |      |          | 6660 | 60°0 |
| Frounze           | iP  | 37D      | iS   | 01 06    | 6670 | 60°0 |
| Monowai           | iP  | 44°2D    |      |          | 6805 | 61°2 |
| Mirny             | iP  | 48D      | eS   | 27       | 6890 | 62°0 |
| Tachkent          | iP  | 50C      | iS   | 28       | 6890 | 62°0 |
| Semipalatinsk     | iP  | 57°1     | iS   | 40°7     | 7010 | 63°1 |
| Bodajbo           | iP  | 54 00°5C |      |          | 7080 | 63°7 |
| Wellington        | iP  | 05°0     | eS   | 57       | 7190 | 64°7 |
| Karapiro          | iP  | 05°4     |      |          | 7165 | 64°5 |
| Tananarive        | eP  | 08D      | i    | 56 07    | 7235 | 65°1 |
| Mashad            | eIP | 12°5     |      |          | 7290 | 65°6 |
| Gisborne          | eP  | 16°9D    | eS   | 02 23    | 7395 | 66°5 |
| Achkhabad         | iP  | 24°5     |      |          | 7470 | 67°2 |
| Vannovskaya       | P   | 25       |      |          | 7490 | 67°4 |
| Chiraz            | iP  | 28°2     |      |          | 7555 | 68°0 |

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|                   |      |       |                   |      |                 |       |      |
|-------------------|------|-------|-------------------|------|-----------------|-------|------|
| Yakoutsk          | iP   |       |                   | S    | 04 02 49        | 7675  | 69°1 |
| Kizyl Arvat       | iP   | 03 54 | 33 <sup>D</sup>   | iPP  | 03 56 35        | 7695  | 69°3 |
| Petropavlovsk     | eP   |       | 40                |      |                 | 7805  | 70°2 |
| Téhéran           | iP   |       | 46°5 <sup>D</sup> |      |                 | 7930  | 71°4 |
| Magadan           | P    |       | 50                |      |                 | 7985  | 71°9 |
| Affamalu          | iP   | 55    | 03                |      |                 | 8210  | 73°9 |
| Scott Base        | iP   |       | 12°3              | S    | 04 04 21°0      | 8530  | 76°8 |
| Sverdlovsk        | eP   |       | 13                |      |                 | 8435  | 75°9 |
| Tabriz            | eIP  |       | 13°8              | iIS  | 07°5            | 8445  | 76°0 |
| Addis Ababa       | eP   |       | 14                |      |                 | 8420  | 75°8 |
| Goris             | iP   |       | 16 <sup>D</sup>   | iS   | 12              | 8495  | 76°5 |
| Nairobi           | iP   |       | 17°5 <sup>D</sup> |      |                 | 8500  | 76°5 |
| Kirovabad         | P    |       | 18                |      |                 | 8540  | 76°8 |
| Tiksi             | iP   |       | 23                | iS   | 25              | 8695  | 78°3 |
| Tbilisi           | iP   |       | 27                | iS   | 31              | 8700  | 78°3 |
| Chileka           | iP   |       | 27 <sup>D</sup>   | iS   | 28              | 8575  | 77°2 |
| Changalane        | iP   |       | 31°5 <sup>D</sup> | i    | 35°6            | 8820  | 79°4 |
| Pietermaritzburg  | iP   |       | (43)              |      |                 | 8985  | 80°9 |
| Karoi             | iP   |       | 46 <sup>D</sup>   | eS   | 05 12           | 9135  | 82°2 |
| Adak              | iP   |       | 47°5              | e    | 08°8            | 9190  | 82°7 |
| Pretoria          | iP   |       | 49°5 <sup>C</sup> |      |                 | 9215  | 83°0 |
| Bulawayo          | iP   |       | 50°1              | iS   | 13              | 9215  | 83°0 |
| Ksara             | iP   |       | 52                | i    | 32              | 9220  | 83°0 |
| Jérusalem         | iP   |       | 52°0 <sup>D</sup> | i    | 03 57 57°6      | 9245  | 83°2 |
| Broken Hill       | iP   |       | 52 <sup>D</sup>   | iS   | 04 05 16        | 9280  | 83°5 |
| Butare            | iP   |       | 53°6              | eSKS | 23              | 9260  | 83°3 |
| South pole        | iP   |       | 53°8              | PP   | 03 58 05°4      | 9330  | 84°0 |
| Rarotonga         | eP   | 56    | 00°0              |      |                 | 9430  | 84°9 |
| Kimberley         | iP   |       | 04                |      |                 | 9535  | 85°8 |
| Helwan            | iP   |       | 04°0              | i    | 04 05 32        | 9570  | 86°1 |
| Simferopol        | iP   |       | 08                | iPP  | 03 53 14        | 9630  | 86°7 |
| Moskva            | P    |       | 10 <sup>D</sup>   | iS   | 04 05 57        | 9670  | 87°0 |
| Novo Lazarevskaya | iP   |       | 14 <sup>D</sup>   | ePP  | 03 53 24        | 9785  | 88°0 |
| Istanbul Kand     | iP   |       | 20°0              | i    | 28°8            | 9960  | 89°6 |
| Istanbul Uti      | iIP  |       | 21°2 <sup>D</sup> | i    | 30              | 9965  | 89°7 |
| Rhodes            | eIP  |       | 22°4 <sup>D</sup> |      |                 | 9960  | 89°6 |
| Byrd              | iP   |       | 23°6              | iPP  | 35°6            | 10010 | 90°1 |
| Kichinev          | iP   |       | 25 <sup>D</sup>   | iPP  | 33              | 10070 | 90°6 |
| Apatity           | eP   |       | 29                |      |                 | 10195 | 91°8 |
| Iasy              | P    |       | 30 <sup>D</sup>   |      |                 | 10170 | 91°5 |
| Poulkovo          | iP   |       | 30                | ePP  | 40              | 10190 | 91°7 |
| Paraskevi         | eIP  |       | 30°3 <sup>C</sup> |      |                 | 10170 | 91°5 |
| Vrincioaia        | P    |       | 33°4 <sup>D</sup> | i    | 42 <sup>D</sup> | 10215 | 91°9 |
| Campulung         | P    |       | 36 <sup>D</sup>   |      |                 | 10340 | 93°1 |
| Kirkenes          | iP   |       | 38°6              |      |                 | 10370 | 93°3 |
| Vamos             | eIP  |       | 38°9 <sup>D</sup> |      |                 | 10305 | 92°8 |
| Kajaani           | iP   |       | 37°5 <sup>D</sup> | eS   | 04 06 50        | 10390 | 93°5 |
| Athènes           | eIP  |       | 38°1 <sup>D</sup> |      |                 | 10330 | 93°4 |
| Windoek           | iP   |       | 39°5 <sup>C</sup> |      |                 | 10330 | 93°4 |
| Kipapa            | e(P) |       | 39°0              |      |                 | 10100 | 90°9 |
| Honolulu          | e(P) |       | 39°0              |      |                 | 10100 | 90°9 |
| Hawai Volc.Obs.   | eP   |       | 40°0              |      |                 | 10370 | 93°3 |
| Oulu              | eP   |       | 41                |      |                 | 10490 | 94°4 |

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|                  |     |       |       |        |      |         |       |       |
|------------------|-----|-------|-------|--------|------|---------|-------|-------|
| Sodankylae       | iP  | 03 56 | 41.1  |        |      |         | 10480 | 94.3  |
| Lvov             | iP  |       | 42    | M      | 04   | 15.0    | 10460 | 94.1  |
| Kevo             | iP  |       | 42.0D | eSKS   |      | 06 17   | 10490 | 94.4  |
| Nurmijaervi      | iP  |       | 43.5D | eS     |      | 07 01   | 10510 | 94.6  |
| Skopje           | iP  |       | 46.3  |        |      |         | 10600 | 95.1  |
| Bangui           | iP  |       | 47.0  | i      |      | 06 26.3 | 10570 | 95.2  |
| Oujgorod         | iP  |       | 47D   | epP    | 03   | 58 56   | 10575 | 95.2  |
| Papeete          | iP  |       | 50.6  |        |      |         | 10545 | 94.9  |
| Valsamaka        | eP  |       | 51.4  |        |      |         | 10650 | 95.9  |
| Papenoo          | iP  |       | 51.5  |        |      |         | 10555 | 95.0  |
| Kiruna           | iP  |       | 51.5D |        |      |         | 10745 | 96.7  |
| Raciborz         | eP  |       | 52    |        |      |         | 10880 | 97.9  |
| Umeå             | iP  |       | 52.2D |        |      |         | 10755 | 96.8  |
| Niedzica         | eP  |       | 53D   |        |      |         | 10725 | 96.5  |
| Krakow           | eP  |       | 54D   | epP    | 59   | 03      | 10755 | 96.8  |
| Uppsala          | iP  |       | 58.5  |        |      |         | 10900 | 98.1  |
| Sa da Bandeira   | iP  |       | 59.4  |        |      |         | 10870 | 97.8  |
| Bratislava       | iP  |       | 59.9  |        |      |         | 10960 | 98.6  |
| Palmer           | eP  | 57    | 01.8  |        |      |         | 10990 | 98.9  |
| Gilmore Creek    | eP  |       | 03.6  | e      | 13   | 25.0    | 11030 | 99.3  |
| College          | eP  |       | 03.9  |        |      |         | 11020 | 99.2  |
| Wien             | iP  |       | 04.5D |        |      |         | 11015 | 99.1  |
| Karlskrona       | iP  |       | 04.5  |        |      |         | 11035 | 99.3  |
| Skalstugan       | iP  |       | 08.5  |        |      |         | 11150 | 100.3 |
| Pruhonice        | eIP |       | 09.5D |        |      |         | 11145 | 100.3 |
| Ljubljana        | eP  |       | 10    | e      | 04   | 06 53   | 11180 | 100.4 |
| Trieste          | eIP |       | 11.7  | i      |      | 54      | 11220 | 101.0 |
| Kasperské Hory   | eIP |       | 12    |        |      |         | 11210 | 100.9 |
| Collm            | eP  |       | 12.8  |        |      |         | 11245 | 102.2 |
| Station Nord     | iP  |       | 13.0  |        |      |         | 11270 | 101.4 |
| Goteborg         | iP  |       | 13.1  |        |      |         | 11240 | 101.2 |
| Lillehammer      | iP  |       | 13.5  |        |      |         | 11255 | 101.3 |
| Moxa             | eIP |       | 17D   |        |      |         | 11345 | 102.1 |
| Kongsberg        | iP  |       | 17.5  |        |      |         | 11345 | 102.1 |
| Furstenfeldbruck | eP  |       | 19    | eIP    | 01   | 37      | 11390 | 102.5 |
| Erlangen         | eP  |       | 19.4D |        |      |         | 11390 | 102.4 |
| Stuttgart        | eP  |       | 24.8D |        |      |         | 11530 | 103.8 |
| Mould Bay        | eP  |       | 26.1D |        |      |         | 11580 | 104.2 |
| North Pole       | eP  |       | 26.4  |        |      |         | 11580 | 104.2 |
| Lanslevillard    | eIP |       | 33.8  | eIPKP1 | 42.4 |         | 11760 | 105.8 |
| Roselend         | eP  |       | 34.4  | ePKP1  | 42.0 |         | 11775 | 106.0 |
| St Paul en Foret | eP  |       | 35.7  | PKP    | 43.3 |         | 11800 | 106.2 |
| La Mourre        | eP  |       | 36.3  | PKP    | 43.5 |         | 11820 | 106.4 |
| Lorgues          | eP  |       | 36.4  | PKP    | 44.0 |         | 11830 | 106.5 |
| Monteynard       | eP  |       | 38    |        |      |         | 11860 | 106.7 |
| Les Buteaux      | eP  |       | 41.3  | PKP    | 46.2 |         | 11955 | 107.6 |
| Sommée Lormes    | eP  |       | 41.6  | PKP    | 45.5 |         | 11960 | 107.6 |
| St Saulge        | eP  |       | 43.8  | PKP    | 45.5 |         | 11985 | 107.9 |
| Toulx Ste Croix  | eP  |       | 47.3  | PKP    | 48.2 |         | 12100 | 108.9 |
| Tamanrasset      | eP  |       | 48    |        |      |         | 12080 | 108.7 |
| Basel            | PKP | 04 01 | (35)  |        |      |         | 11675 | 105.1 |

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|                        |                    |                   |              |                       |                  |                  |
|------------------------|--------------------|-------------------|--------------|-----------------------|------------------|------------------|
| Strasbourg             | ePKP <sub>1</sub>  | 04 01 40          |              |                       | 11645            | 104'8            |
| Welschbruch            |                    | 40'5              |              |                       | 11680            | 105'1            |
| Champ du Feu           | e1PKP              | 41'0              |              |                       | 11685            | 105'2            |
| Haudompré              | e1PKP              | 42'4              |              |                       | 11760            | 105'3            |
| Monaco                 | 1PKP               | 42'7              |              |                       | 11740            | 105'7            |
| Isola                  | 1PKP               | 43'0              |              |                       | 11770            | 105'9            |
| Vouglans               | e1PKP <sub>1</sub> | 44'2              | ei           | 04 02 11'4            | 11840            | 106'6            |
| Clermont               | ePKP               | 47                | e            | 46                    | 12045            | 108'4            |
| Resolute               | PKP                | 49'0              |              |                       | 12170            | 109'5            |
| St. Sauveur            | e1PKP <sub>1</sub> | 50'4              |              |                       | 12210            | 109'9            |
| Folinigre              | e1PKP <sub>1</sub> | 50'6              |              |                       | 12310            | 110'1            |
| Gorron                 | e1PKP <sub>1</sub> | 51'6              |              |                       | 12280            | 110'5            |
| Le Pertre              | e1PKP <sub>1</sub> | 51'8              |              |                       | 12300            | 110'7            |
| Bagnères               | e1PKP <sub>1</sub> | 52                |              |                       | 12335            | 111'0            |
| Tortosa                | 1PKP               | 53                |              |                       | 12355            | 111'2            |
| Akureyri               | ePKP               | 53                |              |                       | 12405            | 111'6            |
| Almería                | 1PKP               | 59                |              |                       | 12685            | 114'2            |
| Toledo                 | 1PKP               | 02 00'5           |              |                       | 12750            | 114'8            |
| Godhavn                | 1P                 | 01'5              |              |                       | 12925            | 116'3            |
| Ifrane                 | PKP                | 05 <sup>D</sup>   | ei           | 04 04 44 <sup>D</sup> | 13000            | 117'0            |
| Porto                  | PKP                | 06'0              |              |                       | 13090            | 117'8            |
| Longmire               | P                  | 06'2              |              |                       | 13100            | 117'9            |
| Corvalis               | PKP                | 06'5              |              |                       | 13070            | 117'6            |
| Lamto                  | PKP                | 07'4              |              |                       | 14200            | 118'8            |
| Averroes               | e1PKP              | 07'8              | i            | 47'6                  | 13210            | 118'9            |
| Edmonton               | PKP                | 09'0              |              |                       | 13290            | 119'6            |
| Spokane                | PKP                | 09'3              | i            | 12 10'2               | 13355            | 120'2            |
| Newport                | PKP                | 10'2              | i            | 04 27'0               | 13345            | 120'1            |
| Nordman                | PKP                | 10'4              | ei           | 23'0                  | 13330            | 120'0            |
| Oroville               | PKP                | 11'1              |              |                       | 13400            | 120'6            |
| Berkeley               | PKP                | 11'9 <sup>D</sup> |              |                       | 13400            | 120'6            |
| Blue M.                | PKP                | 12'8              |              |                       | 13500            | 121'5            |
| Hungry Horse           | PKP                | 13'0              | 1sPKP        | 30'0                  | 13530            | 121'8            |
| Frobisher              | PKP                | 13'1              | i            | 12 10'0               | 13600            | 122'4            |
| Mt. Hamilton           | PKP                | 13'5 <sup>D</sup> |              |                       | 13470            | 121'2            |
| Jamestown              | PKP                | 14'0 <sup>D</sup> | e            | 02 43'2               | 13545            | 121'9            |
| San Luis Dam           | PKP                | 14'4              | 1sPKP        | 04 31'5               | 13510            | 121'6            |
| Storre Canyon          | PKP                | 14'8              |              |                       | 13520            | 121'7            |
| Butte                  | PKP                | 18'7              | esPKP        | 34'1                  | 13770            | 123'9            |
| Eureka                 | PKP                | 19'8              |              |                       | 13645            | 124'6            |
| Uinta Basin            | PKP                | 21'2              |              |                       | 14290            | 128'6            |
| Dugway                 | PKP                | 22'4              |              |                       | 14055            | 126'5            |
| Salt Lake City         | PKP                | 24'3              | esPKP        | 40'8                  | 14100            | 128'9            |
| <del>Uinta Basin</del> | <del>PKP</del>     | <del>27'2</del>   | <del>e</del> | <del>10 35'5</del>    | <del>14000</del> | <del>128'0</del> |
| Glen Canyon            | PKP                | 28'2              | 1sPKP        | 04 46'0               | 14310            | 130'3            |
| Tonto Forest           | ePKP               | 31'0              |              |                       | 14470            | 130'2            |
| Manhattan              | (PKP)              | 32'5              |              |                       | 14590            | 131'3            |
| Tucson                 | e                  | 32'5              |              |                       | 14590            | 131'3            |
| M <sup>1</sup> Bour    | 1PKP <sub>1</sub>  | 31                | 1PP          | 04 59                 | 14495            | 130'5            |
| Albuquerque            | PKP                | 36'0              | sPKP         | 05 10'0               | 14820            | 133'4            |
| Wichita M.             | PKP                | 38'1              | e            | 05 33'1               | 15445            | 139'0            |

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|                      |         |         |                   |       |                      |      |       |       |
|----------------------|---------|---------|-------------------|-------|----------------------|------|-------|-------|
| Ottawa               | PKP     | 04 02   | 40°0              | 1     | 04 05                | 28°0 | 15555 | 140°0 |
| Santiago             | PKP     |         | 41°3              |       |                      |      | 15610 | 140°5 |
| Tulsa                | PKP     |         | 42°0              |       |                      |      | 15555 | 140°0 |
| Peldehue             | 1PKP    |         | 42°2 <sup>C</sup> |       |                      |      | 15645 | 140°8 |
| Brébeuf              | 1PKP    |         | 42°3 <sup>C</sup> |       |                      |      | 15580 | 140°2 |
| Ann Arbor            | PKP     |         | 43°0              |       |                      |      | 15655 | 140°9 |
| Leon                 | 1PKP    |         | 52°6              |       |                      |      | 15890 | 143°0 |
| Weston               | PKP     |         | 53°5              | esPKP |                      | 37°0 | 15890 | 143°0 |
| Presa Infiernillo    | 1PKP    |         | 54°5              |       |                      |      | 15960 | 143°8 |
| Fordham              | PKP     |         | 56°0              | 1     | 12 12°0              |      | 16080 | 144°7 |
| Cumberland Pl.       | PKP     |         | 57°5              |       |                      |      | 16200 | 145°8 |
| Washington Sci. Cen. | PKP     |         | 58°7              | e     | 03 27°5              |      | 16200 | 145°8 |
| Blacksberg           | PKP     |         | 58°8              |       |                      |      | 16230 | 146°5 |
| Georgetown           | PKP     |         | 59°0              |       |                      |      | 16220 | 146°0 |
| Nat. Univ. Mexico    | 1PKP    | 03 00   |                   | eSPR  | 18 20                |      | 16200 | 145°8 |
| Oak Ridge            | PKP     |         | 02°2              |       |                      |      | 16230 | 146°1 |
| Chapel Hill          | PKP     |         | 02°5              |       |                      |      | 16470 | 148°2 |
| Tacubaya             | 1PKP    |         | 03                |       |                      |      | 16195 | 145°7 |
| Vista Hermosa        | 1PKP    |         | 05°5              |       |                      |      | 16515 | 148°6 |
| Antofagasta          | 1PKP    |         | 05°9 <sup>D</sup> | 1     | 03 11°6              |      | 16685 | 150°2 |
| Presa B. Juarez      | 1PKP    |         | 06°7 <sup>C</sup> |       |                      |      | 16875 | 150°1 |
| La Palma             | PKP     |         | 13°5              | 1     | 47°0                 |      | 17330 | 156°4 |
| Cochabamba           | 1PKP    |         | 15°7              |       |                      |      | 17405 | 156°6 |
| Arequipa             | PKP     |         | 16°1              |       |                      |      | 17455 | 157°1 |
| La Paz               | 1PKP    |         | 17                | (PKS) | 05 12                |      |       |       |
| Penas                | PKP     |         | 17°7              |       |                      |      | 17530 | 157°8 |
| Nana                 | PKP     |         | 18°0              |       |                      |      | 17710 | 159°4 |
| San Salvador         | PKP     |         | 19°0              | e     | 03 49°0              |      | 17390 | 156°5 |
| Huancayo             | PKP     |         | 21°1              | 1     | 04 05°0              |      | 17790 | 160°1 |
| Quito                | PKP     |         | 23                | PPS   | 22 24                |      | 18510 | 166°6 |
| Galerazamba          | PKP     |         | 23°0              |       |                      |      | 18920 | 170°9 |
| Trinidad             | PKP     |         | 23°9              |       |                      |      | 19230 | 173°1 |
| Caracas              | e1(PKP) | 04 03   |                   | e     | 04 23°5 <sup>D</sup> |      | 19510 | 175°6 |
| Ponta Delgada        | PP      | 05 03°1 |                   | PKS   | 06 02°0              |      | 14580 | 131°2 |

Inscrit à Roma - l'Aquila - Garchy - Sétif - Ilan - Onerahi - Pasadena - Flaming Gorge.

XV.- 30 Janvier.

Iles Kouriles.

H = 03<sup>h</sup>.52<sup>mm</sup>39<sup>s</sup>. (Uppsala).

|            |    |         |                   |
|------------|----|---------|-------------------|
| Uméa       | 1P | 04 03   | 18°3              |
| Uppsala    | 1P |         | 43°0              |
| Krakov     | eP | 04 28°4 |                   |
| Collm      | eP |         | 32                |
| Erlangen   | eP |         | 45°9 <sup>D</sup> |
| Luxembourg | eP | 05 08   |                   |

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XVI.- 30 Janvier

Iles Kouriles

H = 03<sup>h</sup>.55<sup>mn</sup>18<sup>s</sup>. (Uppsala)

|                   |     |       |                   |
|-------------------|-----|-------|-------------------|
| Sodankylä         | 1P  | 04 05 | 28°2              |
| Kiruna            | 1P  |       | 37°0              |
| Oulu              | eP  |       | 39                |
| Kajaani           | eP  |       | 42                |
| Umeå              | 1P  |       | 57°3              |
| Nurmijaerwi       | 1P  | 06    | 05°6              |
| Uppsala           | 1P  |       | 22°4 <sup>C</sup> |
| Lillehammer       | P   |       | 28°5              |
| Krakow            | eP  | 07    | 06°4              |
| Luxembourg        | e   |       | 07                |
| Collm             | 1P  |       | 13°4 <sup>D</sup> |
| Kasperské Hory    | eiP |       | 22                |
| Erlangen          | eP  |       | 25°4 <sup>D</sup> |
| Bensberg          | eP  |       | 26                |
| Pruhonice         | ei  |       | 30                |
| St. Sauveur       | eP  |       | 46°8              |
| Sommée Lormes     | eP  |       | 47°7              |
| Garchy            | 1P  |       | 48°4 <sup>D</sup> |
| Folinjare         | eP  |       | 48°7              |
| Les Buteaux       | eP  |       | 48°9              |
| St. Saulge        | eP  |       | 49°3              |
| Gorron            | eP  |       | 50°0              |
| Le Pertre         | eP  |       | 52°3              |
| Toulx Ste Croix   | eP  |       | 55°2              |
| St. Paul en Foret | eP  | 08    | 00°2              |
| Lorgues           | eP  |       | 01°0              |
| La Mourre         | eP  |       | 01°5              |

XVII.- 30 Janvier

Hokkaido (Japon)

42° 55' N ; 147° 32' E ; h = 50<sup>km</sup> ; H = 04<sup>h</sup>.02<sup>mn</sup>05<sup>s</sup>. (JMA)  
H = 04<sup>h</sup>.02<sup>mn</sup>04<sup>s</sup>. (Uppsala)

M. = 4.9 (JMA)

|            |    |          |    |          |      |     |
|------------|----|----------|----|----------|------|-----|
| Nemuro     | eP | 04 02 30 | eS | 04 02 49 | 165  | 1°5 |
| Abashiri   | P  | 46°4     | S  | 03 16°6  | 290  | 2°6 |
| Urakawa    | 1P | 03 04°1  | S  | 48°0     | 400  | 3°6 |
| Hachinohe  | eP | 22°0     | eS | 04 19°2  | 566  | 5°1 |
| Morioka    | P  | 32°3     | 1S | 36°4     | 642  | 5°8 |
| Mizusawa   | eP | 33°6     |    |          | 682  | 6°1 |
| Fukushima  | eP | 57°0     | eS | 05 20°1  | 829  | 7°5 |
| Matsushiro | 1P | 04 24°5  | S  | 06 12    | 1067 | 9°6 |
| Sodankylä  | 1P | 12 14    |    |          |      |     |

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|                   |     |       |                   |    |          |
|-------------------|-----|-------|-------------------|----|----------|
| Kiruna            | 1P  | 04 12 | 23°4 <sup>D</sup> |    |          |
| Kajaani           | 1P  |       | 29°5 <sup>D</sup> |    |          |
| Gödhavn           | 1P  |       | 31°0              |    |          |
| Warramunga        | eP  |       | 37                |    |          |
| Uméa              | 1P  |       | 43°4              |    |          |
| Nurmijaerwi       | 1P  |       | 52°6              |    |          |
| Skalstugan        | 1P  |       | 59°4              |    |          |
| Uppsala           | 1P  | 13    | 09°4              |    |          |
| Lillehammer       | P   |       | 15°2              |    |          |
| Kongsberg         | 1P  |       | 17°6              |    |          |
| Chiraz            | e1P |       | 37                |    |          |
| Collm             | eP  | 14    | 00                | e  | 04 14 12 |
| Pruhonice         | e1P |       | 04                |    |          |
| Ksara             | 1P  |       | 09                |    |          |
| Kasperské Hory    | e1P |       | 10°2              |    |          |
| Bensberg          | eP  |       | 12°5              |    |          |
| Erlangen          | eP  |       | 12°7 <sup>D</sup> |    |          |
| Champ du Feu      | eP  |       | 24°7              |    |          |
| Folinière         | eP  |       | 34°2              |    |          |
| Sommée Lormes     | eP  |       | 34°3              |    |          |
| Les Buteaux       | e1P |       | 36°1              |    |          |
| St. Saulge        | eP  |       | 36°1              |    |          |
| Gorron            | eP  |       | 36°2              |    |          |
| Garchy            | 1P  |       | 36°7 <sup>D</sup> |    |          |
| Le Pertre         | eP  |       | 36°2              |    |          |
| Lanslevillard     | e1  |       | 39                | e1 | 15 08°0  |
| Monteynard        | e   |       | 42                |    |          |
| Toulx Ste Croix   | eP  |       | 42°4              |    |          |
| St. Paul en Foret | eP  |       | 47°0              |    |          |
| Lorgues           | eP  |       | 48°0              |    |          |
| La Mourre         | eP  |       | 48°3              |    |          |

XVIII.- 30 Janvier

Iles Kouriles.

43° 1' N ; 147° 1' E ; h = 24 km ; H = 04h.10<sup>mn</sup>36.1<sup>s.</sup> (CGS)  
 43° 1' N ; 147° 4' E ; H = 04h.10<sup>mn</sup>37<sup>s.</sup> (URSS)  
 42° 57' N ; 147° 27' E ; h = 40 km ; H = 04h.10<sup>mn</sup>36.2<sup>s.</sup> (JMA)

M. = 5.7 (Mt. Tsukuba) ; 5.6 (Nurmijaerwi) ; 5.4 (Kajaani) ; 5.3 (Kevo) ;  
 5.1 (JMA - CGS) ; 4.9 (Shillong - Cumberland Pl.) ; 4.8 (Uinta Basin) ;  
 4.7 (Tonto Forest - Wichita M.) ; 4.6 (College).

|             |    |          |    |          |
|-------------|----|----------|----|----------|
| Nemuro      | 1P | 04 11 01 | eS | 04 11 18 |
| Kourilsk    | eP | 13       | eS | 40       |
| Abashiri    | P  | 17°8     | S  | 48°8     |
| Obihiro     | e  | 26       |    |          |
| Sapporo     | e  | 48       |    |          |
| Mizusawa    | eP | 12 06°7  |    |          |
| Mt. Tsukuba | 1P | 41°2     |    |          |

980 8°8



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|                  |     |       |                   |      |            |      |      |
|------------------|-----|-------|-------------------|------|------------|------|------|
| Dodaira          | eP  | 04 12 | 51°1              |      |            | 1045 | 9°4  |
| Matsushiro       | 1P  |       | 53°5              | eS   | 04 14 35   |      |      |
| Kyosumi          | eP  |       | 54°7              |      |            | 1070 | 9°6  |
| Vladivostok      | eP  | 14    | 18 <sup>D</sup>   |      |            |      |      |
| Shiraki          | P   |       | 54°7              |      |            | 1570 | 14°1 |
| Oishiyama        | eP  |       | 55°0              |      |            | 1430 | 12°9 |
| Yakoutsk         | eP  | 15    | 19                |      |            |      |      |
| Palmer           | eP  | 18    | 21°5              |      |            | 4580 | 41°2 |
| College          | eP  |       | 23°0              |      |            | 4620 | 41°6 |
| Gilmore Creek    | eP  |       | 25°0              |      |            | 4645 | 41°8 |
| Semipalatinsk    | 1P  |       | 52°7              |      |            |      |      |
| Shillong         | 1P  | 19    | 16°0              |      |            | 5330 | 48°0 |
| Talgar           | 1P  |       | 28                |      |            |      |      |
| Alert            | eP  |       | 58°0              |      |            | 5980 | 53°8 |
| Resolute         | eP  | 20    | 10°0              | 1    | 04 20 21°0 | 6180 | 55°6 |
| Tachkent         | eP  |       | 22                |      |            |      |      |
| Kevo             | 1P  |       | 37°5              |      |            | 6590 | 59°3 |
| Sodankylä        | 1P  |       | 49°1              |      |            | 6790 | 61°1 |
| Kiruna           | 1P  |       | 57°6              |      |            |      |      |
| Oulu             | eP  | 21    | 00                |      |            |      |      |
| Kajaani          | 1P  |       | 02°6              |      |            | 7000 | 63°0 |
| Warramunga       | eP  |       | 08                |      |            | 7090 | 63°8 |
| Poulkovo         | eP  |       | 14                |      |            |      |      |
| Vannovskaya      | P   |       | 15                |      |            |      |      |
| Moskva           | eP  |       | 17                |      |            |      |      |
| Uméa             | 1P  |       | 17°8              |      |            |      |      |
| Poona            | eP  |       | 19°0              |      |            | 7280 | 65°5 |
| Nurmijaerwi      | 1P  |       | 25°9              |      |            | 7400 | 66°6 |
| Skalstugan       | eP  |       | 32°3              |      |            |      |      |
| Uppsala          | 1P  |       | 42°6              |      |            | 7710 | 69°4 |
| Frobisher        | eP  |       | 44°6              |      |            | 7755 | 69°8 |
| Lillehammer      | 1P  |       | 48°2              |      |            | 7810 | 70°3 |
| Goris            | 1P  |       | 55                |      |            |      |      |
| Bakouriani       | 1P  |       | 57°4              |      |            |      |      |
| Uinta Basin      | eP  |       | 58°3              | ePcP | 22 11°1    | 7990 | 71°9 |
| Tabriz           | eP  | 22    | 00                |      |            |      |      |
| Bergen           | eP  |       | 02                |      |            | 8020 | 72°2 |
| Glamis           | P   |       | 09                | 1    | 14         | 8170 | 73°5 |
| Tonto Forest     | eP  |       | 18°3              | ePcP | 28°5       | 8320 | 74°9 |
| Krakov           | eP  |       | 26°4              |      |            |      |      |
| Oujgorod         | eP  |       | 27                |      |            |      |      |
| Niedzica         | e1P |       | 28                |      |            |      |      |
| Collm            | 1P  |       | 33°3 <sup>D</sup> | 1    | 35°0       | 8655 | 77°9 |
| Pruhonice        | e1P |       | 37                |      |            | 8720 | 78°5 |
| Bratislava       | eP  |       | 38°9              |      |            |      |      |
| Moxa             | eP  |       | 39                |      |            | 8770 | 78°9 |
| Kasperské Hory   | e1P |       | 43 <sup>C</sup>   |      |            | 8830 | 79°5 |
| Erlangen         | eP  |       | 45°0 <sup>C</sup> |      |            |      |      |
| Bensberg         | eP  |       | 45°0              |      |            | 8900 | 80°1 |
| Fürstenfeldbruck | eP  |       | 52                |      |            |      |      |
| Wlchita M.       | eP  |       | 55°3              |      |            | 9010 | 82°1 |
| Luxembourg       | P   |       | 56 <sup>C</sup>   |      |            | 9070 | 81°6 |
| Trieste          | eP  |       | 57                | e    | 23 07°7    | 9145 | 82°3 |

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|                 |     |            |    |            |           |
|-----------------|-----|------------|----|------------|-----------|
| Champ du Feu    | eP  | 04 22 57.6 |    |            |           |
| Sommée Lormes   | eP  | 23 08.0    |    |            | 9370 84°3 |
| Roselend        | eP  | 08         | ei | 04 23 23.5 |           |
| Vouglans        | eP  | 09         | e  | 20         |           |
| Les Buteaux     | eP  | 09.0       |    |            |           |
| St. Saulge      | eP  | 09.4       |    |            | 9400 84°6 |
| Lanslevillard   | eP  | 14         | e  | 42         |           |
| Toulx Ste Croix | eP  | 15.3       |    |            |           |
| La Mourre       | eP  | 21.6       |    |            |           |
| Cumberland Pl.  | eP  | 26.1       |    |            | 9790 88°1 |
| Penas           | PKP | 30 10.5    |    |            |           |
| Cochabamba      | PKP | 24.7       |    |            |           |

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Phases tardives des séismes précédents ?

|                   |        |                   |        |            |
|-------------------|--------|-------------------|--------|------------|
| Folinière         | e(P)   | 04 12 47.5        | ei(DP) | 04 13 07.0 |
| Gorron            | e(P)   | 48.0              | ei(DP) | 05.2       |
| St. Sauveur       | e(P)   | 49.6              | ei(DP) | 08.0       |
| Le Pertre         | e(P)   | 51.4              | ei(DP) | 04.6       |
| St. Saulge        | e(P)   | (57.2)            | ei(DP) | 12.3       |
| Sommée Lormes     | e(P)   | 59.9              | ei(DP) | 13.7       |
| Les Buteaux       | e(P)   | 59.9              |        |            |
| Bagnères          | ei     | 13 03             |        |            |
| Roselend          | e      | 05.0              | ei     | 27.4       |
| Lorgues           | e(P)   | 05.5              | ei(DP) | 24.0       |
| St. Paul en Foret | e(P)   | 07.3              | ei(DP) | 25.0       |
| Ljubljana         | e      | 13                | e      | 21         |
| Garchy            | i      | 15.7 <sup>D</sup> |        |            |
| Champ du Feu      | e      | 16                |        |            |
| Vouglans          | i      | 16                | ei     | 23.4       |
| Moxa              | eiP    | 18 <sup>D</sup>   |        |            |
| Erlangen          | e(P)   | 18.6              |        |            |
| Kasperské Hory    | eiP    | 21                |        |            |
| Collm             | eiP    | 21 <sup>D</sup>   | e      | 14 13      |
| Trieste           | e      | 21.5              |        |            |
| Pruhonice         | ei     | 23.5              |        |            |
| La Mourre         | ei(DP) | 24.2              |        |            |
| Haudompré         | ei(DP) | 25.4              |        |            |
| Raciborz          | e      | 28                |        |            |
| Bratislava        | iP     | 28.3              | i      | 13 55.4    |
| Champ du Feu      | e(DP)  | 28.5              |        |            |
| Welschbruch       | i      | 29.4              | ei     | 14 24.4    |
| Krakow            | eiP    | 33.9 <sup>D</sup> |        |            |
| Niedzica          | eiP    | 34                |        |            |

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Région Nord de la Colombie

6°3N, 73°1W. h = 162<sup>km</sup>. H = 04<sup>h</sup>39<sup>mn</sup>15.5<sup>s</sup> (CGS)  
 Ressenti à Bogota

M = 5.7 (Balboa Heights), 5.5 (Edmonton), 5.4 (Frobisher),  
 5.3 (Caracas), 5.2 (Penas), 5.1 (La Paz), 5.0 (North Pala,  
 La Palma, CGS), 4.8 (Mould Bay), 4.7 (Cumberland Pl, Wichita M,  
 Tucson, Uinta Basin), 4.6 (Palmer, Dugway), 4.4 (Tonto Forest),  
 4.2 (Albuquerque), 4.0 (Gilmore Creek), 3.9 (Blue M).

|                   |     |                      |      |            |       |       |
|-------------------|-----|----------------------|------|------------|-------|-------|
| Bogota            | 1P  | 04 39 58.9           | 1S   | 04 40 28.5 | 270   | 2.4   |
| Balboa Heights    | 1P  | 40 50.9              | 1S   | 42 05.0    | 755   | 6.8   |
| Caracas           | 1Pn | 56.8                 | e1Sn | 42 05      | 790   | 7.1   |
| Quito             | eP  | 41 25                | eS   | 17         | 980   | 8.8   |
| Trinidad          | eP  | 42 05.0              |      |            | 1345  | 12.1  |
| La Palma          | 1P  | 43 11.0 <sup>C</sup> |      |            | 1945  | 17.5  |
| Huancayo          | 1P  | 26.1                 |      |            | 2090  | 18.8  |
| Arequipa          | eP  | 44 08.0              |      |            | 2570  | 23.1  |
| Penas             | 1P  | 11.5                 | DP   | 44 46      | 2590  | 23.3  |
| La Paz            | eP  | 14 .0                | S    | 48 18.0    | 2630  | 23.7  |
| Vista Hermosa     | 1P  | 32                   |      |            |       |       |
| Presa Infiernillo | 1P  | 45 14.5              |      |            |       |       |
| Cumberland Pl     | eP  | 19.8                 |      |            | 3430  | 30.9  |
| Oak Ridge         | 1P  | 22.3                 |      |            | 3420  | 30.8  |
| Tulsa             | 1P  | 46 00.0 <sup>C</sup> |      |            | 3970  | 35.7  |
| Wichita M.        | eP  | 05.2                 | ePP  | 47 34.6    | 4045  | 36.4  |
| Manhattan         | eP  | 24.0                 |      |            | 4290  | 38.6  |
| Brébeuf           | 1P  | 26.4                 |      |            | 4290  | 38.6  |
| Albuquerque       | eP  | 49.3                 |      |            | 4620  | 41.6  |
| Tucson            | 1P  | 47 03.8              | e    | 48 49.5    | 4810  | 43.3  |
| Tonto Forest      | eP  | 14.5                 |      |            | 4955  | 44.6  |
| Glén Canyon       | 1P  | 27.0                 | 1sP  | 03.7       | 5130  | 46.2  |
| Uinta Basin       | eP  | 30.3                 | ePP  | 07.0       | 5190  | 46.7  |
| Flaming Gorge     | eP  | 32.5                 | esp  | 09.5       | 5210  | 46.9  |
| Dugway            | eP  | 45.7                 |      |            | 5410  | 49.7  |
| Pasadena          | 1P  | 54                   |      |            | 5520  | 49.7  |
| Eureka            | 1P  | 58.5                 | esp  | 35.6       | 5600  | 50.4  |
| San Luis Dam      | eP  | 48 19.0              |      |            | 5900  | 53.1  |
| Blue M.           | eP  | 23.4                 | e    | 49 01.9    | 6000  | 54.0  |
| Oroville          | 1P  | 27.2                 |      |            | 6030  | 54.3  |
| Newport           | 1P  | 36.0                 |      |            | 6190  | 55.7  |
| Norman            | 1P  | 37.1                 |      |            | 6200  | 55.8  |
| Edmonton          | 1P  | 43.0                 |      |            | 6300  | 56.7  |
| Frobisher         | eP  | 45.0                 |      |            | 6320  | 56.9  |
| Lamto             | P   | 49 54.8              |      |            | 7500  | 67.5  |
| Mould Bay         | eP  | 50 34.0              |      |            | 8200  | 73.8  |
| North Pole        | eP  | 34.0                 |      |            | 8210  | 73.9  |
| Gilmore Creek     | eP  | 53.4                 |      |            | 8590  | 77.3  |
| College           | eP  | 54.0                 |      |            | 8600  | 77.4  |
| Palmer            | eP  | 54.4                 |      |            | 8600  | 77.4  |
| Shillong          | PKP | 58 33.5              |      |            | 16080 | 144.7 |

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XXI. 30 Janvier  
Ile au Nord (Nouvelle Zélande)

H = 05<sup>h</sup>38<sup>m</sup>38<sup>mn</sup>.

M = 5.3 (Wellington)

|             |      |       |       |      |          |
|-------------|------|-------|-------|------|----------|
| Karapiro    | iP   | 05 39 | 21.1  |      |          |
| Gisborne    | eP   |       | 25    | e    | 05 39 29 |
| Wellington  | P    |       | 33    | eS   | 40 08    |
| Onerahi     | eP   | 40    | 55    |      |          |
| Monowai     | eP   |       | 41 05 |      |          |
| Nouméa      | iP   | 43    | 14.2C |      |          |
| Koumac      | iP   |       | 37.1C |      |          |
| Canberra    | eP   |       | 44    |      |          |
| Luganville  | eIP  |       | 45.0  |      |          |
| Brisbane    | eF   |       | 48    | e(S) | 48 03    |
| South Pole  | eP   | 47    | 58.2  |      |          |
| Sodankylae  | ePKP | 58    | 31    |      |          |
| Oulu        | ePKP |       | 35    |      |          |
| Kiruna      | iPKP |       | 35.5  |      |          |
| Kajaani     | iPKP |       | 38.8  |      |          |
| Uméa        | iPKP |       | 42.6C |      |          |
| Nurmijaervi | ePKP |       | 46    |      |          |

XXII. 30 Janvier  
Iles Kouriles

43° 5'N, 147° 1'E. h = 33km. H = 06<sup>h</sup>08<sup>m</sup>35.2<sup>s</sup> (CGS)

44° 1'N, 146° 6'E. H = 06<sup>h</sup>08<sup>m</sup>39<sup>s</sup> (URSSS)

43° 21'N, 147° 09'E. h = 30km. H = 06<sup>h</sup>08<sup>m</sup>35.1<sup>s</sup> (JMA)

M = 5.9 (Mt Tsukuba), 5.7 (Collm), 5.4 (Nurmijaervi), 5.3 (Poona, Kajaani), 5.1 (Newport, Shillong), 5.0 (CGS, JMA, College), 4.8 (Gilmore Creek, Cumberland Pl), 4.7 (Uinta Basin), 4.6 (Digway), 4.4 (Blue M, Tonto Forest), 4.3 (Wichita M).

|             |    |          |      |            |       |      |
|-------------|----|----------|------|------------|-------|------|
| Nemuro      | eP | 06 08 56 | iS   | 06 09 10.8 |       |      |
| Kourilsk    | eP | 09 03    |      |            |       |      |
| Abashiri    | eP | 12.0     | eS   | 39.4       |       |      |
| Obihiro     | e  | 24       |      |            |       |      |
| Sapporo     | eP | 42       |      |            |       |      |
| Hakodate    | iP | 50.6     | eS   | 10 51      |       |      |
| Morioka     | iP | 10 00.3  | e    | 11 03.6    |       |      |
| Mt Tsukuba  | iP | 41.8     |      |            | 1000  | 9.0  |
| Dodaira     | eP | 50.8     | eS   | 12 32.5    | 1 070 | 9.6  |
| Matsushiro  | iP | 53.5     | e(S) | 13 5       |       |      |
| Kyosumi     | eP | 58.8     |      |            | 1090  | 9.8  |
| Vladivostok | eP | 11 14    |      |            |       |      |
| Abuyama     | eP | 34.9     |      |            |       |      |
| Oishiyama   | e  | 36.0     |      |            | 1455  | 13.4 |
| Shiraki     | P  | 54.1     |      |            | 1590  | 14.3 |
| Irkoutsk    | eP | 13 17    |      |            |       |      |
| Tiksi       | eP | 34       |      |            |       |      |
| Palmer      | eP | 16 16.1  |      |            | 4545  | 40.9 |
| College     | iP | 20.2     |      |            | 4600  | 41.4 |

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|                |     |       |                   |      |            |      |      |
|----------------|-----|-------|-------------------|------|------------|------|------|
| Gilmore Creek  | eP  | 06 16 | 20.9              |      |            | 4810 | 41.5 |
| Semipalatinsk  | eP  |       | 46.5              |      |            |      |      |
| Shillong       | iP  | 17    | 12.5              |      |            | 5330 | 48.0 |
| Mould Bay      | eP  |       | 20.0              |      |            | 5455 | 49.1 |
| Talgar         | eP  |       | 24                |      |            |      |      |
| Chittagong     | eP  |       | 30                |      |            |      |      |
| Chatra         | i   |       | 35                |      |            |      |      |
| Resolute       | eP  | 18    | 09.5              |      |            | 6145 | 55.3 |
| Garm           | eP  |       | 12                |      |            |      |      |
| Uméa           | iP  |       | 12.3              |      |            |      |      |
| Kevo           | eP  |       | 33                |      |            | 6555 | 59.0 |
| Uppsala        | iP  |       | 38.3 <sup>C</sup> |      |            |      |      |
| Sodankylae     | iP  |       | 44.5              |      |            |      |      |
| Edmonton       | eP  |       | 51.0              |      |            | 6855 | 61.7 |
| Kiruna         | iP  |       | 53.5              |      |            |      |      |
| Oulu           | iP  |       | 55.8              |      |            |      |      |
| Nordman        | iP  |       | 56.9              |      |            | 6930 | 62.4 |
| Newport        | iP  |       | 57.6              |      |            | 6955 | 62.6 |
| Kajaani        | iP  |       | 58.1 <sup>D</sup> |      |            | 6970 | 62.7 |
| Warrawunga     | eP  | 19    | 07.5              |      |            | 7130 | 64.2 |
| Elue M.        | eP  |       | 09.5              |      |            | 7170 | 64.5 |
| Vannovskaya    | P   |       | 11                |      |            |      |      |
| Poona          | eP  |       | 16.0              |      |            | 7270 | 65.4 |
| Nurmijaervi    | iP  |       | 21.0              |      |            | 7370 | 66.3 |
| Eureka         | eP  |       | 36.6              |      |            | 7610 | 68.5 |
| Uppsala        | iP  |       | 38.5 <sup>C</sup> |      |            | 7670 | 69.0 |
| Frobisher      | eP  |       | 40.6 <sup>C</sup> |      |            | 7720 | 69.5 |
| Lillehammer    | eP  |       | 44.4              |      |            | 7770 | 69.9 |
| Dugway         | eP  |       | 45.5              |      |            | 7780 | 70.0 |
| Kirovabad      | eP  |       | 46                |      |            |      |      |
| Goris          | eP  |       | 50                |      |            |      |      |
| Bakouriani     | iP  |       | 52.5 <sup>D</sup> |      |            |      |      |
| Kongsberg      | iP  |       | 54.0              |      |            | 7945 | 71.5 |
| Uinta Basin    | eP  |       | 56.2              | ePcP | 06 20 07.2 | 7980 | 71.8 |
| Chiraz         | P   | 20    | 05.5              |      |            | 8110 | 73.0 |
| Glamis         | P   |       | 06                |      |            | 8155 | 73.4 |
| Tonto Forest   | eP  |       | 14.6              | ePcP | 3.9.0      | 8310 | 74.8 |
| Krakow         | eP  |       | 22                |      |            |      |      |
| Tucson         | eP  |       | 23.0              |      |            | 8490 | 76.4 |
| Niedzica       | eIP |       | 23.5 <sup>C</sup> |      |            |      |      |
| Albuquerque    | eP  |       | 28.0              |      |            | 8580 | 77.2 |
| Collm          | iP  |       | 28.9              |      |            | 8620 | 77.6 |
| Pruhonice      | eIP |       | 33                |      |            | 8680 | 78.1 |
| Moxa           | eIP |       | 35.5              |      |            | 8730 | 78.6 |
| Kasperské Hory | eIP |       | 38.7 <sup>C</sup> |      |            | 8800 | 79.2 |
| Erlangen       | eP  |       | 40.8 <sup>C</sup> |      |            |      |      |
| Trieste        | eP  |       | 52                |      |            | 9110 | 82.0 |
| Wilchita M.    | eP  |       | 52.5              |      |            | 9100 | 81.9 |
| Sommée Lormes  | eP  | 21    | 03.7              |      |            | 9330 | 84.0 |
| Les Buteaux    | eP  |       | 04.7              |      |            |      |      |
| Garchy         | iP  |       | 04.8 <sup>C</sup> |      |            |      |      |
| Brébeuf        | eP  |       | 05                |      |            |      |      |
| St Saulge      | eP  |       | 05.1              |      |            | 9355 | 84.2 |

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|                  |                   |          |     |          |       |       |
|------------------|-------------------|----------|-----|----------|-------|-------|
| Vouglans         | eP                | 06 21 06 | e   | 06 21 15 |       |       |
| Roselend         | eIP               | 06.2     |     |          |       |       |
| St Paul en Forêt | eP                | 06.6     |     |          |       |       |
| Lanslevillaød    | eIP               | 07.6     | ei  | 18.2     |       |       |
| Toulx Ste Croix  | eP                | 11.2     |     |          |       |       |
| La Mourre        | eP                | 17.0     |     |          |       |       |
| Lorgues          | eP                | 17.0     |     |          |       |       |
| Cumberland Pl    | eP                | 22.8     |     |          | 9770  | 87.9  |
| South Pole       | PKP               | 27 54.8  |     |          | 14810 | 133.3 |
| Banguï           | iPKP <sub>1</sub> | 28 01.6  | iPP | 28 47.5  |       |       |
| Penas            | PKP               | 03.2     |     |          | 15500 | 139.5 |
| La Paz           | PKP               | 03.8     | e   | 30 07.5  | 15545 | 139.9 |

Inscrit à Porto.

XXIII. 30 janvier  
Région des îles Tonga

|                 |       |          |    |            |  |  |
|-----------------|-------|----------|----|------------|--|--|
| Afiamalu        | eP    | 06 19 22 | eS | 06 21 03   |  |  |
| Rarotonga       | eP    | 20 19    |    |            |  |  |
| Port Vila       | iP    | 56.2C    |    |            |  |  |
| Nouméa          | iP    | 21 03.5C |    |            |  |  |
| Luganville      | iP    | 18.3(C)  |    |            |  |  |
| Koumac          | iP    | 21.0C    |    |            |  |  |
| Brisbane        | iP    | 23 02.4  |    |            |  |  |
| Charters Towers | iP    | 24 01D   |    |            |  |  |
| PortMoresby     | iP    | 23.9D    |    |            |  |  |
| Warramunga      | eP    | 25 30.5  |    |            |  |  |
| Krakow          | ePKP  | 38 44.5  |    |            |  |  |
| Banguï          | iPKP  | 47.0     | i  | 06 37 28.0 |  |  |
| Collm           | eIPKP | 56.1     | e  | 09         |  |  |
| Niedzica        | eIPKP | 56.5C    |    |            |  |  |
| Moxa            | ePKP  | 57       |    |            |  |  |
| Ljubljana       | ePKP  | 58       | e  | 36 38      |  |  |
| Pruhonice       | ePKP  | 59       |    |            |  |  |
| Kasperské Hory  | ePKP  | 37 01    |    |            |  |  |
| Bratislava      | ePKP  | 03       |    |            |  |  |
| Erlangen        | ePKP  | 13.7     |    |            |  |  |
| Trieste         | ePKP  | 28.2     | e  | 37 39      |  |  |

XXIV. 30 janvier  
Océan Pacifique, au sud du Mexique

15° 28' N, 99° 15' W. H = 07h01<sup>m</sup>50<sup>s</sup> (Tacubaya)

|                  |    |            |    |          |     |     |
|------------------|----|------------|----|----------|-----|-----|
| Vista Hermosa    | iP | 07 02 33.5 | iS | 07 03 14 | 320 | 2.9 |
| Presa Infernillo | iP | 52.5       | iS | 41       | 432 | 3.9 |
| Nat. Uni. Mexico | iP | 53         |    |          | 440 | 4.0 |
| Presa B. Juarez  | iP | 54.8       |    |          | 425 | 3.8 |
| Tacubaya         | iX | 03 04      |    |          | 440 | 4.0 |
| Leon             | iX | 04 45.3    |    |          | 670 | 6.0 |

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XXV. 30 janvier  
Région de la Nouvelle Bretagne

H = 07h<sup>28</sup>mm<sup>43</sup>s M = 4.4 (Rabaul)

|              |      |       |                   |      |       |      |
|--------------|------|-------|-------------------|------|-------|------|
| Rabaul       | 1P   | 07 27 | 19.2 <sup>D</sup> | 1S   | 07 27 | 46.5 |
| Keravat      | 1(P) |       | 24                | 1(S) |       | 48   |
| Port Moresby | eP   |       | 28 40             |      |       |      |
| Brisbane     | e(P) |       | 31 28             |      |       |      |

XXVI. 30 janvier  
Hindou Kouch

|               |            |  |
|---------------|------------|--|
| 36°4N, 70°7E. | h = 205km. | H = 08h <sup>17</sup> mm <sup>32</sup> .5 <sup>S</sup> (CGS) |
| 36°4N, 70°7E  | h = 200km. | H = 08h <sup>17</sup> mm <sup>32</sup> S (URSS)              |
| 35°9N, 70°6E  | h = 223 km | H = 08h <sup>17</sup> mm <sup>38</sup> S (Quetta)            |

M = 5.7 (Edmonton, North Pole), 5.6 (JMA), 5.5 (Nurmijaervi, Bangui, Mould Bay), 5.4 (Newport, Kajaani), 5.3 (Gillmore Creek, Wichita M), 5.2 (CGS, Poonā), 5.1 (Kevo, Palmer, Uinta Basin), 4.7 (Mt Tsukuba), 4.4 (Blue M).

|               |    |       |                   |    |       |      |       |      |
|---------------|----|-------|-------------------|----|-------|------|-------|------|
| Khorog        | 1P | 08 18 | 05                | 1S | 08 18 | 29   | 130   | 1.2  |
| Kouliab       | 1P |       | 07.6 <sup>D</sup> | 1S |       | 34.4 | 180   | 1.6  |
| Warsak        | 1P |       | 16                | S  |       | 46   |       |      |
| Garm          | 1P |       | 17.2              | 1S |       | 49.8 | 280   | 2.5  |
| Mangla        | 1P |       | 36.6 <sup>C</sup> | eS | 19    | 23.7 |       |      |
| Samarkand     | P  |       | 39                | S  |       | 28   | 480   | 4.3  |
| Andidjan      | 1P |       | 40.5 <sup>D</sup> | 1S |       | 31   | 490   | 4.4  |
| Tachkent      | 1P |       | 47.5 <sup>C</sup> | 1S |       | 42   | 555   | 5.0  |
| Lahore        | P  |       | 57                | S  |       | 58   |       |      |
| Bhakra        | eP | 19    | 11                | 1S | 20    | 28   |       |      |
| Quetta        | 1P |       | 13.1 <sup>D</sup> | eS |       | 32.0 | 770   | 6.9  |
| Frounze       | 1P |       | 14 <sup>D</sup>   |    |       |      | 780   | 7.0  |
| Prjevalsk     | 1P |       | 31.7              | 1S | 21    | 06   | 930   | 8.4  |
| Talgar        | 1P |       | 32                |    |       |      | 930   | 8.4  |
| Dehra Dun     | 1P |       | 35                | 1S |       | 12   |       |      |
| New Dehl 1    | 1P |       | 44.0              | 1S |       | 23.0 | 1045  | 9.4  |
| Mashad        | eP |       | 45                |    |       |      | 1000  | 9.0  |
| Achkhabad     | eP |       | 53                |    |       |      | 1110  | 10.0 |
| Vannovskaya   | P  |       | 53                |    |       |      | 1130  | 10.2 |
| Kizyl Arvat   | eP | 20    | 12                |    |       |      | 1300  | 11.7 |
| Sehore        | 1P |       | 50                |    |       |      |       |      |
| Semipalatinsk | eP | 21    | 00.8              |    |       |      | 172.0 | 15.5 |
| Téhéran       | eP |       | 05                |    |       |      | 1745  | 15.7 |
| Chiraz        | 1P |       | 15.9              |    |       |      | 1810  | 18.3 |
| Chatra        | 1P |       | 21                | S  | 24    | 21   |       |      |
| Bombay        | eP |       | 27                | eS |       | 40   |       |      |
| Poonā         | 1P |       | 31.5 <sup>D</sup> | eS |       | 52   | 2000  | 18.0 |
| Goris         | eP |       | 45                |    |       |      | 2155  | 19.4 |
| Kirovabad     | P  |       | 45                |    |       |      | 2170  | 19.5 |
| Kermanshah    | eP |       | 47                |    |       |      |       |      |

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|                          |     |       |          |     |          |            |
|--------------------------|-----|-------|----------|-----|----------|------------|
| Tabriz                   | eip | 08 21 | 53° 1    |     |          |            |
| Shillong                 | 1P  | 22    | 02° 5    |     |          |            |
| Sverdlovsk               | 1P  |       | 06° C    |     | 2330     | 21° 0      |
| Bakouriani               | 1P  |       | 12° 8° C |     | 2380     | 21° 4      |
| Chittagong               | eP  |       | 25       |     | 2410     | 21° 7      |
| Madras                   | eP  |       | 39       | e   | 08 26 47 |            |
| Oulan Bator              | 1P  |       | 23 17    |     |          |            |
| Bodajbo                  | 1P  | 24    | 11° 5° C |     |          |            |
| Oujgorod                 | eP  |       | 25       |     | 3955     | 35° 6      |
| Apatity                  | 1P  |       | 29° D    |     | 4120     | 37° 1      |
| Kajaani                  | 1P  |       | 30° 0    |     | 4170     | 37° 5      |
| Nurmijaervi              | 1P  |       | 30° 3    |     | 4200     | 37° 3      |
| Niedzica                 | eip |       | 34       |     | 4200     | 37° 3      |
| Oulu                     | 1P  |       | 39° 2    |     |          |            |
| Sodankylae               | 1P  |       | 39° 2    |     |          |            |
| Kirkenes                 | 1P  |       | 48° 2    |     | 4420     | 39° 3      |
| Uméa                     | 1P  |       | 54° 0    |     | 4430     | 39° 9      |
| Kevo                     | 1P  |       | 55° 6° D |     |          |            |
| Uppsala                  | 1P  |       | 56° 4° C |     | 4530     | 40° 3      |
| Karlskrona               | 1P  | 25    | 00° 2° C |     | 4555     | 41° 0      |
| Kiruna                   | 1P  |       | 05° 2° C |     |          |            |
| Pruhonicé                | eP  |       | 07       |     |          |            |
| Ljubljana                | eP  |       | 10       | ePP | 25 55    | 4690 42° 2 |
| Trieste                  | eP  |       | 14       |     |          |            |
| Moxa                     | eP  |       | 20       |     |          |            |
| Skalstugan               | 1P  |       | 21° 9° C |     | 4890     | 44° 0      |
| Yakoutsk                 | 1P  |       | 22° C    |     |          |            |
| Lillehammer              | 1P  |       | 24° 1° D |     | 4900     | 44° 1      |
| Furstenfeldbruck         | eP  |       | 25       | ePP | 26 10    | 4945 44° 5 |
| Kongsberg                | 1P  |       | 28° 6    |     | 4945     | 44° 5      |
| Tiksi                    | 1P  |       | 36° C    |     | 5000     | 45° 0      |
| Lanslevil <del>had</del> | eip |       | 51° 3    | ei  | 22° 0    | 5100 45° 9 |
| Roselend                 | eip |       | 52° 7    |     |          |            |
| Vouglans                 | eip |       | 56° 5    | i   | 20       |            |
| Kasperské Hory           | eP  | 28    | 05       |     |          |            |
| Sétif                    | 1P  |       | 18° 5    |     |          |            |
| Bratislava               | eip |       | 28° 4    |     | 5745     | 51° 7      |
| Matsushiro               | 1P  |       | 31       |     |          |            |
| Dodaira                  | eP  |       | 37° 8    |     | 6010     | 54° 1      |
| Mt Tsukuba               | eP  |       | 40° 4    |     | 6080     | 54° 7      |
| Kyosumi                  | eP  |       | 45° 5    |     | 6130     | 55° 2      |
| Bangui                   | 1P  | 27    | 00° 8    | iS  | 34 42° 3 | 6380 57° 4 |
| Ifrane                   | P   |       | 23° 5    |     | 6745     | 60° 7      |
| Averroes                 | P   |       | 35       |     | 6945     | 62° 5      |
| Chileka                  | eP  |       | 37       |     | 6870     | 61° 8      |
| Broken Hill              | eP  |       | 51       |     | 7155     | 64° 4      |
| Karoi                    | eP  |       | 57       | e   | 28 45    | 7300 65° 7 |
| Mould Bay                | 1P  | 28    | 07° 5° C |     | 7500     | 67° 5      |
| North Pole               | eP  |       | 07° 7    |     | 7490     | 67° 4      |
| Resolute                 | eP  |       | 15° 4° C |     | 7645     | 68° 8      |
| Bulawayo                 | eP  |       | 17° 0    |     | 7655     | 68° 9      |



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|                 |     |                   |                |       |       |
|-----------------|-----|-------------------|----------------|-------|-------|
| Changalane      | eP  | 08 27 40          |                |       |       |
| College         | eP  | 49.2              |                | 8290  | 74.6  |
| Sa da Bandeira  | iP  | 49.8              |                | 8245  | 74.2  |
| Pedro Dome      | iP  | 28 50.2           |                | 8290  | 74.6  |
| Gilmore Creek   | eP  | 50.4 <sup>C</sup> |                | 8290  | 74.6  |
| Lanto           | P   | 51.7              |                | 8320  | 74.9  |
| Frobisher       | eP  | 52.9 <sup>D</sup> |                | 8345  | 75.1  |
| Sparrevohn      | iP  | 56.8              |                | 8430  | 75.8  |
| Black Rapids    | iP  | 58.8              |                | 8480  | 76.3  |
| Palmer          | eP  | 29 04.0           |                | 8570  | 77.1  |
| Big Mountain    | eP  | 05.3              |                | 8590  | 77.3  |
| Mts Sheep Creek | eP  | 05.6              |                | 8600  | 77.4  |
| Warramunga      | eP  | 31.0              |                | 9120  | 82.1  |
| Charters Towers | iP  | 30 13             |                | 10080 | 90.7  |
| Edmonton        | iP  | 13.5              |                | 10080 | 90.7  |
| Nordman         | eP  | 33.0              |                | 10570 | 95.1  |
| Newport         | iP  | 35.3              |                | 10600 | 95.4  |
| Blue M.         | eP  | 53.1              |                | 10980 | 98.8  |
| Uinta Basin     | eP  | 31 09.5           |                | 11520 | 103.7 |
| Wichita M.      | eP  | 35.9              |                | 12070 | 108.6 |
| Tonto Forest    | eP  | 44.0              |                | 12190 | 109.7 |
| Mirny           | e   | 35 31.0           |                |       |       |
| South Pole      | PKP | 36 10.7           |                | 14020 | 126.2 |
| La Paz          | PKP | 36.0              | ePP 08 39 49.5 | 15400 | 138.6 |
| Penas           | PKP | 37.3              | ePP 51         | 15410 | 138.7 |

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Nouvelles Hébrides (Ile Vaté)

17°0 S ; 167°8 E ; H = 08h.20<sup>mn</sup>19S. ; M. = 3.4 (Nouméa)

|            |     |                   |    |          |
|------------|-----|-------------------|----|----------|
| Port Vila  | eIP | 08 20 33.8        | 1S | 08 20 46 |
| Luganville | eIP | 44.7              | 1S | 21 07.5  |
| Koumac     | eIP | 21 28.5           |    |          |
| Nouméa     | iP  | 39.2 <sup>C</sup> | 1S | 22 40.5  |

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Iles Kouriles.

43°0 N ; 146°9 E ; h = 33km ; H = 09h.06<sup>mn</sup>29S. (CGS)  
 42°5 N ; 147°4 E ; H = 09h.06<sup>mn</sup>25S. (URSS)  
 43°06' N ; 147°16' E ; h = 10km ; H = 09h.06<sup>mn</sup>24.7S. (JMA)

M. = 5.4 (Mt. Tsukuba) ; 5.2 (Nurmijaerwi) ; 4.7 (JMA) ; 4.6 (College - CGS) ;  
 4.5 (Blue M.) ; 4.3 (Gilmore Creek - Uinta Basin) ; 4.0 (Tonto Forest)

|          |    |          |    |          |
|----------|----|----------|----|----------|
| Nemuro   | iP | 09 06 49 | eS | 09 07 06 |
| Abashiri | eP | 07 06.6  | S  | 38.2     |
| Kourilsk | eP | 07       |    |          |
| Urakawa  | eP | 20.7     | eS | 08 02    |

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|                   |     |                   |        |            |       |       |
|-------------------|-----|-------------------|--------|------------|-------|-------|
| Youjno_Sakhalinsk | 1P  | 09 07 49.0        | eS     | 09 08 53   |       |       |
| Mt. Tsukuba       | eP  | 08 29.9           | 1S     | 09 59.3    | 955   | 8.6   |
| Dodaira           | eP  | 39.0              |        |            | 1020  | 9.2   |
| Matsushiro        | P   | 46                | S      | 10 48      |       |       |
| Vladivostok       | eP  | 09 08             | eS     | 11 11      |       |       |
| Yakoutsk          | eP  | 15                |        |            |       |       |
| Barrow            | eP  | 13 55.7           |        |            | 4355  | 39.2  |
| College           | eP  | 14 16.0           |        |            | 4645  | 41.8  |
| Pedro Dome        | eP  | 18.0              |        |            | 4655  | 41.9  |
| Gilmore Creek     | eP  | 18.1              |        |            | 4655  | 41.9  |
| Palmer            | eP  | 21.8              |        |            | 4590  | 41.3  |
| Semipalatinsk     | eP  | 41.9              |        |            |       |       |
| Mould Bay         | eP  | 15 17.8           |        |            | 6510  | 49.6  |
| Talgar            | eP  | 19                |        |            |       |       |
| Resolute          | eP  | 16 03.0           | i      | 16 10.0    | 6190  | 55.7  |
| Garm              | eP  | 07                |        |            |       |       |
| Sodankylä         | eP  | 39                |        |            | 6790  | 61.1  |
| Edmonton          | eP  | 47.6 <sup>D</sup> |        |            | 6900  | 62.1  |
| Newport           | eP  | 53.0              |        |            | 7000  | 63.0  |
| Nordman           | eP  | 53.0              |        |            | 6980  | 62.8  |
| Quetta            | eP  | 55.4 <sup>C</sup> |        |            | 7020  | 63.2  |
| Kajaani           | eP  | 57                |        |            | 7000  | 63.0  |
| Blue M.           | eP  | 17 07.8           |        |            | 7200  | 64.8  |
| NurmiJaerwi       | 1P  | 18.0              |        |            | 7400  | 66.6  |
| Frobisher         | eP  | 38.0              |        |            | 7780  | 70.0  |
| Kirovabad         | eP  | 40                |        |            |       |       |
| Lillehammer       | P   | 40.8              |        |            |       |       |
| Dugway            | eP  | 43.0              |        |            | 7810  | 70.3  |
| Bakouriani        | eP  | 45.7              |        |            |       |       |
| Goldstone         | eP  | 51                |        |            | 7890  | 71.0  |
| Uinta Basin       | eP  | 51.5              | ePcP   | 09 18 02.1 | 8010  | 72.1  |
| Tonto Forest      | eP  | 18 10.0           | e(PcP) | 20.9       | 8345  | 75.1  |
| Niedzica          | eP  | 19.5 <sup>D</sup> |        |            |       |       |
| Oujgorod          | 1P  | 21                |        |            |       |       |
| Albuquerque       | eP  | 23.0              |        |            | 8620  | 77.6  |
| Collm             | eP  | 24                |        |            | 8655  | 77.9  |
| Kasperské Hory    | e1P | 34.5              |        |            | 8830  | 79.5  |
| Sommée Lormes     | eP  | 19 01.3           |        |            |       |       |
| Les Buteaux       | eP  | 05.7              |        |            |       |       |
| St. Saulge        | eP  | 07.3              |        |            |       |       |
| Cumberland Pl.    | eP  | 30.2              |        |            | 9810  | 88.3  |
| La Paz            | PKP | 25 58             |        |            |       |       |
| Penas             | PKP | 59.2              |        |            | 15530 | 139.8 |

Inscrit à Wichita M.

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Région de la Nouvelle Bretagne

H = 10h.00mn 47s.; M. = 5.2(Rabaul)

Rabalanakaia 1P 10 01 22.0

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|                |      |                         |    |            |
|----------------|------|-------------------------|----|------------|
| Wanliss Street | iP   | 10 01 22.5 <sup>D</sup> |    |            |
| Rabaul         | iP   | 22.5                    | 1S | 10 01 49.0 |
| Keravat        | iP   | 23.5                    | 1S | 49.5       |
| Port Moresby   | iP   | 02 42.8                 | eS | 04 12      |
| Brisbane       | e(P) | 05 32                   |    |            |

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Mer Egée, au large ouest de l'île de Rhodes.

36°0 N ; 26°6 E ; H = 10h.09<sup>mn</sup>31s.; M. = 3.9(Athènes)

|             |      |                      |      |            |     |     |
|-------------|------|----------------------|------|------------|-----|-----|
| Rhodes      | eiPn | 10 09 55.9           | eiSn | 10 10 14.4 | 140 | 1.3 |
| Vamos       | eiPn | 10 08.3 <sup>D</sup> | eiSn | 35.6       | 240 | 2.2 |
| Athènes     | ePn  | 19.6                 | eiSb | 59.2       | 325 | 2.9 |
| Paraskevi   | ePn  | 24.0                 |      |            | 360 | 3.2 |
| Valsamata   | ePn  | 53.6                 |      |            | 590 | 5.3 |
| Jérusalem   | iP   | 11 32.5 <sup>C</sup> | eS   | 12 57      |     |     |
| Roselend    | eP   | 13 41                | ei   | 13 48.0    |     |     |
| St. Saulge  | eP   | 14 05.7              |      |            |     |     |
| Les Buteaux | eP   | 09.8                 |      |            |     |     |
| Tamanrasset | e    | 27                   |      |            |     |     |

inscrit à Istanbul UTI.

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Iles Kouriles (Réplique)

43°4 N ; 147°0 E ; h = 33<sup>km</sup> ; H = 11h.34<sup>mn</sup>40s. (CGS)  
 43°02' N ; 147°11' E ; h = 70<sup>km</sup> ; H = 11h.34<sup>mn</sup>35.8s. (JMA)

M. = 5.1(Mt. Tsukuba) ; 4.5(Uinta Basin) ; 4.4(JMA) ; 4.3(CGS) ; 4.2(Dugway) ;  
 3.9(Blue M.) ; 3.8(Tonto Forest)

|             |    |            |    |          |      |      |
|-------------|----|------------|----|----------|------|------|
| Nemuro      | iP | 11 35 00.8 | eS | 11 35 19 |      |      |
| Kushiro     | eP | 13         | eS | 38       |      |      |
| Abashiri    | eP | 17.4       | eS | 50.6     |      |      |
| Urakawa     | P  | 34.0       | S  | 36 18.0  |      |      |
| Mt. Tsukuba | iP | 36 42.0    |    |          | 1000 | 9.0  |
| Dodaira     | eP | 51.8       |    |          | 1070 | 9.6  |
| Matsushiro  | iP | 54         | eS | 36 33    |      |      |
| Kyosumi     | eP | 37 01.2    |    |          | 1090 | 9.8  |
| Resolute    | eP | 44 12.0    |    |          | 6145 | 55.3 |
| Sodankylä   | eP | 50         |    |          | 6755 | 60.8 |
| Oulu        | eP | 45 02      |    |          |      |      |
| Kajaani     | eP | 05         |    |          | 6970 | 62.7 |
| Blue M.     | eP | 15.2       |    |          | 7170 | 64.5 |
| Uméa        | iP | 19.0       |    |          |      |      |
| Nurmijaerwi | iP | 26.6       |    |          | 7370 | 66.3 |
| Lillehammer | P  | 49.2       |    |          |      |      |
| Dugway      | eP | 49.7       |    |          | 7780 | 70.0 |

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|                |    |            |  |      |      |
|----------------|----|------------|--|------|------|
| Uinta Basin    | eP | 11 46 01.0 |  | 7980 | 71.8 |
| Tonto Forest   | eP | 19.7       |  | 8310 | 74.8 |
| Collm          | eP | 33.0       |  | 8620 | 77.6 |
| Cumberland Pl. | eP | 47 27.5    |  | 9770 | 87.9 |

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Maroc.

Explosion de 8 Tonnes

32° 46' N ; 6° 46' W ; H = 11h.43<sup>mn</sup>34<sup>s</sup>. (Rabat)

|          |      |          |      |          |     |     |
|----------|------|----------|------|----------|-----|-----|
| Averroes | eiPg | 11 43 49 | eiSg | 11 44 00 | 85  | 0.8 |
| Ifrane   | eiPg | 44 03.5  | eSg  | 24.5     | 175 | 1.6 |

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Maroc.

Explosion de 7 Tonnes.

32° 46' N ; 6° 46' W ; H = 11h.43<sup>mn</sup>57<sup>s</sup>. (Rabat)

|          |      |          |      |            |     |     |
|----------|------|----------|------|------------|-----|-----|
| Averroes | eiPg | 11 44 12 | eiSg | 11 44 21.5 | 85  | 0.8 |
| Ifrane   | eiPg | 28       | Sg   | 47         | 175 | 1.6 |

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Tian\_Chan méridional.

39° 04' N ; 70° 4' E ; H = 11h.52<sup>mn</sup>30<sup>s</sup>. (M. = 4.0 (URSS))

|           |     |                         |     |            |     |     |
|-----------|-----|-------------------------|-----|------------|-----|-----|
| Garm      | iPg | 11 52 33.7 <sup>D</sup> | iSg | 11 52 37.7 | 10  | 0.1 |
| Kouliab   | iP  | 54.5 <sup>C</sup>       |     |            | 130 | 1.2 |
| Khorog    | ePg | 53 02                   | iSg | 53 26      | 190 | 1.7 |
| Andidjan  | iPg | 15 <sup>C</sup>         | iSg | 47         | 255 | 2.3 |
| Tachkent  | ePg | 20 <sup>C</sup>         |     |            | 230 | 2.5 |
| Samarkand | ePg | 24                      | iSb | 54 04      | 310 | 2.8 |
| Warsak    | P   | 55                      | S   | 55 00      |     |     |
| Talgar    | eP  | 54 13                   | eSb | 53         | 730 | 6.6 |
| Quetta    | eP  | 55.3 <sup>D</sup>       |     |            |     |     |

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Région de la Nouvelle Bretagne

M = 4.6 (Rabaul)

|              |     |            |      |          |  |  |
|--------------|-----|------------|------|----------|--|--|
| Keravat      | iP  | 12 23 26.5 | iS   | 12 23 47 |  |  |
| Rabalanakala | iP  | 27.5       |      |          |  |  |
| Rabaul       | eiP | 23.5       | i(S) | 53.0     |  |  |
| Port Moresby | eP  | 24 31      | eS   | 25 40    |  |  |

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Haute-Silésie.

|          |     |            |
|----------|-----|------------|
| Chorzow  | 1P  | 12 57 00.5 |
| Zabrze   | e   | 02.1       |
| Dabrova  | e   | 02.9       |
| Bytom    | e   | 03.5       |
| Rybnick  | eP  | 08         |
| Raciborz | e   | 19         |
| Niedzica | e1P | 22         |

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Océan Pacifique, au large de la cote de Guerrero (Mexique)

15° 11' N ; 99° 28' W ; h = 13<sup>h</sup>.46<sup>mn</sup>01<sup>s</sup>. (Tacubaya)

|                   |     |            |    |          |     |     |
|-------------------|-----|------------|----|----------|-----|-----|
| Vista Hermosa     | 1P  | 13 46 52.5 | 1S | 13 47 32 | 360 | 3.2 |
| Presa Infernillo  | 1P  | 47 03      | 1S | 50.5     | 464 | 4.2 |
| Presa B. Juarez   | eP  | 07.5       |    |          | 435 | 3.9 |
| Nat. Univ. Mexico | 1Pg | 13         |    |          | 460 | 4.1 |
| Tacubaya          | 1Pg | 16         |    |          | 465 | 4.2 |

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Sud du Mexique.

17° 30' N ; 95° 04' W ; h = 100<sup>km</sup> ; H = 14<sup>h</sup>.05<sup>mn</sup>09.1<sup>s</sup>. (Tacubaya)

|                  |      |                         |    |          |     |     |
|------------------|------|-------------------------|----|----------|-----|-----|
| Presa B. Juarez  | 1P   | 14 05 27.1 <sup>P</sup> | 1S | 14 05 47 | 120 | 1.1 |
| Vista Hermosa    | 1P   | 35.5                    |    |          | 190 | 1.7 |
| Presa Infernillo | 1(P) | 06 37.3                 |    |          | 740 | 6.7 |

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Hokkaido (Japon)

44° 14' N ; 146° 49' E ; h = 30<sup>km</sup> ; H = 14<sup>h</sup>.09<sup>mn</sup>19.0<sup>s</sup>. (JMA)

M. = 4.5 (JMA)

|             |    |            |    |          |      |     |
|-------------|----|------------|----|----------|------|-----|
| Nemuro      | 1P | 14 09 36.7 | eS | 14 09 47 | 100  | 0.9 |
| Kushiro     | eP | 49         | eS | 10 13    | 199  | 1.8 |
| Abashiri    | eP | 53.0       | S  | 17.4     | 322  | 2.0 |
| Urakawa     | P  | 10 11.5    | S  | 49.0     | 353  | 3.2 |
| Mizusawa    | eP | 47.1       |    |          | 659  | 5.9 |
| Matsushiro  | P  | 11 34      |    |          | 1045 | 9.4 |
| Sodankylä   | eP | 19 39      |    |          |      |     |
| Kajaani     | 1P | 52.7       |    |          |      |     |
| Nurmijaerwi | eP | 20 05      |    |          |      |     |
| Woody       | P  | 24         | i  | 20 32    |      |     |

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|                 |    |            |  |
|-----------------|----|------------|--|
| Niedzica        | eP | 14 21 08.5 |  |
| Kasperské Hory  | eP | 22         |  |
| Sommée Lormes   | eP | 58.3       |  |
| Les Buteaux     | eP | 59.3       |  |
| St. Saulge      | eP | 59.7       |  |
| Toulx Ste Croix | eP | 22 06.4    |  |

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Nouvelles Hébrides (Ile Vaté)

20° 2 S ; 168° 9 E ; H = 14<sup>h</sup>.14<sup>mn</sup>23<sup>s</sup>. ; M. = 3.4(Nouméa)

|           |       |                   |    |            |
|-----------|-------|-------------------|----|------------|
| Port Vila | 1P    | 14 15 03.0(C)     | 1S | 14 15 33.5 |
| Nouméa    | 1P    | 11.0 <sup>C</sup> | 1S | 47         |
| Koumac    | e1(P) | 29.7              | 1S | 16 19.5    |

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Nevada.

41° 0 N ; 117° 4 W ; h = 18 km ; H = 15<sup>h</sup>.20<sup>mn</sup>05.6<sup>s</sup>. (CGS)

M. = 5.4(Tucson) ; 4.6(Longmire) ; 4.5(CGS) ; 4.3(Wichita M.).

|                |     |                   |      |            |           |
|----------------|-----|-------------------|------|------------|-----------|
| Eureka         | 1P  | 15 20 37.0        |      | 210        | 1.9       |
| Tonopah        | 1P  | 52.4              |      | 320        | 2.9       |
| Mineral        | eP  | 55.7              |      |            |           |
| Oroville       | 1P  | 57.9              |      | 380        | 3.5       |
| Dugway         | eP  | 21 00.2           | eL   | 15 21 55.3 | 400 3.6   |
| Blue M.        | ePn | 02.1              |      | 420        | 3.8       |
| Jamestown      | eP  | 04.5 <sup>D</sup> | 1S   | 22 05.6    | 430 3.9   |
| Mt. Hamilton   | eP  | 19.4 <sup>D</sup> | eS   | 37.5       | 545 4.9   |
| Mount Diablo   | eP  | 20.0              | e    | 30.0       | 520 4.7   |
| Salt Lake City | eP  | 20.5              | 1Lg  | 37.6       | 545 4.9   |
| Berkeley       | eP  | 28.5              |      |            |           |
| Isabella       | 1P  | 30.9              | 1D   | 50.2       | 600 5.4   |
| Uinta Basin    | 1P  | 37.0              |      | 670        | 6.0       |
| Butte          | eP  | 37.5              | eLg  | 23 11.0    | 680 6.1   |
| Priest         | eP  | 37.5 <sup>D</sup> |      |            |           |
| Flaming Gorge  | eP  | 37.6              |      | 680        | 6.1       |
| Stone Canyon   | ePP | 42.5              |      | 590        | 5.3       |
| Longpire       | eP  | 45.0              |      | 730        | 6.6       |
| Newport        | eP  | 53.0              | eL   | 54.0       | 810 7.3   |
| Hungry Horse   | eP  | 59.9              | eLg  | 24 09.8    | 855 7.7   |
| Tonto Forest   | eP  | 22 09.2           |      |            |           |
| Flaming Gorge  | eP  | 21.0              | 1S   | 23 56.6    | 810 7.3   |
| Tucson         | eP  | 35.5              | e(S) | 25 36.0    | 1130 10.2 |
| Edmonton       | eP  | 23 05.0           |      | 1390       | 12.5      |
| Wichita M.     | eP  | 52.4              | ePP  | 24 00.3    | 1790 16.1 |
| Mould Bay      | eP  | 27 01.0           |      | 3920       | 35.3      |

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Région de la Houvelle Bretagne

H = 17<sup>h</sup>.11<sup>mn</sup>29<sup>s</sup>. ; M. = 4.3 (Rabaul)

|                |     |                       |    |            |
|----------------|-----|-----------------------|----|------------|
| Keravat        | eIP | 17 11 55 <sup>D</sup> | 1S | 17 12 13.5 |
| Rabaul         | 1P  | 57.0 <sup>D</sup>     | 1S | 18         |
| Rabalanakaia   | 1P  | 57.0 <sup>D</sup>     |    |            |
| Sulphur Creek  | 1P  | 57.2 <sup>D</sup>     |    |            |
| Wanliss Street | 1P  | 57.2 <sup>D</sup>     |    |            |

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Sud de Hondo (Japon)

32° 2'N, 141° 9'E, h = 25km. H = 18<sup>h</sup>26<sup>mn</sup>08.6<sup>s</sup> (CGS)

M = 4.7 (Wichita M), 4.6 (Uinta Basin), 4.5 (CGS, Dugway, Tonto Forest), 4.1 (Blue M)

|              |      |            |    |          |       |
|--------------|------|------------|----|----------|-------|
| Kyosumi      | eP   | 18 27 00.6 |    | 370      | 3.3   |
| Mt Tsukuba   | 1P   | 13.0       |    | 480      | 4.3   |
| Dodaira      | eP   | 15.5       |    | 490      | 4.4   |
| Matsushiro   | 1P   | 28.8       | eS | 18 28 30 |       |
| Oishiyama    | eP   | 36.0       |    | 645      | 5.8   |
| Guam         | eP   | 30 28.0    |    | 2090     | 18.8  |
| Anpu         | eP   | 42.0       |    | 2130     | 19.2  |
| College      | eP   | 35 24.0    |    | 5890     | 53.0  |
| Bristane     | eP   | 36 14.0    |    | 6690     | 60.2  |
| Mould Bay    | eP   | 21.0       |    | 6790     | 61.1  |
| Quetta       | eP   | 34.2       |    | 6990     | 62.9  |
| Resolute     | eP   | 37 01.0    |    | 7470     | 67.2  |
| Blue M.      | eP   | 18 37 50.0 |    | 8330     | 75.0  |
| Dugway       | eP   | 38 19.2    |    | 8920     | 80.3  |
| Uinta Basin  | eP   | 29.8       |    | 9130     | 82.2  |
| Tonto Forest | eP   | 42.5       |    | 9400     | 84.6  |
| Wichita M.   | eP   | 39 20.8    |    | 10280    | 92.5  |
| La Paz       | ePKP | 45 48.0    |    | 16520    | 148.7 |
| Penas        | ePKP | 50.3       |    |          |       |

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Iles Kouriles

43° 0'N, 147° 2'E, h = 25km.

H = 18<sup>h</sup>35<sup>mn</sup>00.9<sup>s</sup> (CGS)

43° 1'N, 147° 3'E

H = 18<sup>h</sup>35<sup>mn</sup>02<sup>s</sup> (URSS)

42° 48'N, 147° 09'E

H = 18<sup>h</sup>35<sup>mn</sup>00.0<sup>s</sup> (JMA)

M = 5.6 (Mt Tsukuba, Nurmijaervi), 5.5 (Resolute), 5.4 (New Dehli, Kajaani), 5.3 (Kevo), 5.0 (JMA), 4.9 (CGS, Cumberland Pl), 4.8 (Shillong, Eureka), 4.7 (North Pole, Dugway, Uinta Basin), 4.5 (College, Gilmore Creek), 4.4 (Blue M, Tonto Forest), 4.3 (Wichita M).

|        |    |            |    |            |
|--------|----|------------|----|------------|
| Nemuro | 1P | 18 35 25.2 | 1S | 18 35 45.7 |
|--------|----|------------|----|------------|

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|                   |    |                   |    |            |      |      |
|-------------------|----|-------------------|----|------------|------|------|
| Kushiro           | 1P | 18 35 37°0        | 1S | 18 36 01°8 |      |      |
| Kourilsk          | 1P | 38°0              | eS | 04         | 245  | 2°2  |
| Abashiri          | P  | 41°4              | e  | 04°2       |      |      |
| Urakawa           | 1P | 57°5              | S  | 35°0       |      |      |
| Sapporo           | eP | 36 08             |    |            |      |      |
| Youjno Sakhalinsk | 1P | 18°4 <sup>C</sup> |    |            | 570  | 5°1  |
| Mizusawa          | eP | 29°4              | e  | 37 33°6    |      |      |
| Mt Tsukuba        | 1P | 37 05°7           |    |            | 970  | 8°7  |
| Dodaira           | eP | 15°1              | eS | 38 53°7    | 1045 | 9°4  |
| Matsushiro        | 1P | 16°8              | eS | 39 00      |      |      |
| Kyosumi           | eP | 22°4              |    |            | 1070 | 9°6  |
| Vladivostok       | eP | 42                |    |            | 1255 | 11°3 |
| Oishiyama         | eP | 47°0              |    |            | 1430 | 12°9 |
| Shiraki           | eP | 38 19°4           |    |            | 1570 | 14°1 |
| Magadan           | eP | 52                |    |            | 1845 | 16°6 |
| Yakoutsk          | P  | 39 46             |    |            | 2400 | 21°6 |
| Tiksi             | eP | 41 04             |    |            | 3330 | 30°0 |
| College           | eP | 42 48°0           | i  | 42 02°9    | 4630 | 41°7 |
| Gilmore Creek     | eP | 50°6              |    |            | 4645 | 41°8 |
| Semipalatinsk     | P  | 43 17             |    |            | 5010 | 45°1 |
| Shillong          | 1P | 40°5              |    |            | 5330 | 48°0 |
| Mould Bay         | eP | 50°0              |    |            | 5500 | 49°5 |
| North Pole        | eP | 50°4              |    |            | 5500 | 49°5 |
| Talgar            | eP | 53                |    |            | 5520 | 49°7 |
| Chatra            | 1P | 44 03             |    |            |      |      |
| Frounze           | eP | 08                |    |            | 5730 | 51°6 |
| Sverdlovsk        | 1P | 22                |    |            | 5970 | 53°7 |
| Coppermine        | eP | 22°0              |    |            | 5970 | 53°7 |
| Resolute          | eP | 35°6 <sup>C</sup> |    |            | 6180 | 55°6 |
| Tachkent          | eP | 38 <sup>D</sup>   |    |            | 6200 | 55°8 |
| Garm              | eP | 41                |    |            | 6255 | 56°3 |
| New Delhi         | eP | 46 <sup>C</sup>   |    |            | 6330 | 57°0 |
| Kirkenes          | 1P | 57°7              |    |            | 6510 | 58°6 |
| Apatity           | eP | 45 00             |    |            | 6555 | 59°9 |
| Kevo              | 1P | 02°2              |    |            | 6600 | 59°4 |
| Sodankylae        | 1P | 14°1              |    |            | 6790 | 61°1 |
| Edmonton          | eP | 20°0              |    |            | 6880 | 61°9 |
| Kiruna            | 1P | 23°2              |    |            |      |      |
| Nordman           | eP | 25°0              |    |            | 6970 | 62°7 |
| Oulu              | 1P | 25°9              |    |            |      |      |
| Newport           | eP | 26°0              |    |            | 6980 | 62°8 |
| Kajaani           | 1P | 28°0              |    |            | 7010 | 63°1 |
| Quetta            | eP | 31°1 <sup>C</sup> |    |            | 7045 | 63°4 |
| Warramunga        | eP | 31°5              |    |            | 7090 | 63°8 |
| Blue M.           | eP | 33°5              |    |            | 7190 | 64°7 |
| Vannovskaya       | eP | 40                |    |            | 7210 | 64°9 |
| Moskva            | eP | 40                |    |            | 7220 | 65°0 |
| Oroville          | eP | 42°5              |    |            | 7255 | 65°3 |
| Umeå              | 1P | 43°0 <sup>C</sup> |    |            |      |      |
| Poona             | eP | 44                |    |            | 7280 | 65°5 |
| NurmiJaervi       | 1P | 51°2              |    |            | 7410 | 66°7 |
| Wassak            | eP | 53°5              |    |            |      |      |



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|                   |       |       |       |      |            |       |       |
|-------------------|-------|-------|-------|------|------------|-------|-------|
| Eureka            | 1P    | 18 46 | 05.4  |      |            | 7630  | 68.7  |
| Uppsala           | 1P    |       | 07.8C |      |            | 7710  | 69.4  |
| Frobisher         | eP    |       | 10.2C |      |            | 7770  | 69.9  |
| Dugway            | eP    |       | 13.8  |      |            | 7790  | 70.1  |
| Lillehammer       | 1P    |       | 14.4  |      |            | 7820  | 70.4  |
| Téhéran           | eP    |       | 16    |      |            | 7820  | 70.4  |
| Kirovabad         | P     |       | 16    |      |            | 7820  | 70.4  |
| Bakouriani        | 1P    |       | 22.2  |      |            | 7920  | 71.3  |
| Uinta Basin       | eP    |       | 24.5  | ePCP | 18 46 35.8 | 7990  | 71.9  |
| Tabriz            | e1P   |       | 27    | e    | 38         | 8010  | 72.1  |
| Glamis            | P     |       | 32    | i    | 45         | 8170  | 73.5  |
| Chiraz            | P     |       | 34.0  |      |            | 8145  | 73.3  |
| Kongsberg         | 1P    |       | 38.7  |      |            |       |       |
| Tonto Forest      | eP    |       | 43.0  | eS   | 56 25      | 8320  | 74.9  |
| Racibor z         | eP    |       | 48    |      |            |       |       |
| Krakow            | eP    |       | 51.6  |      |            |       |       |
| Niedzica          | e1P   |       | 53.5D | i    | 47 04      |       |       |
| Collm             | eP    |       | 58    | e    | 09         | 8679  | 78.0  |
| Bratislava        | eP    | 47    | 01.9  | e1   | 19.9       | 8790  | 79.1  |
| Pruhonice         | e1P   |       | 02    |      |            | 8730  | 78.6  |
| Tiksi             | eP    |       | 04    |      |            |       |       |
| Moxa              | eP    |       | 04.5  |      |            | 8780  | 79.0  |
| Kasperské Hory    | e1P   |       | 08C   |      |            | 8845  | 79.6  |
| Erlangen          | eP    |       | 10.7D | epP  | 21.7       |       |       |
| Champ du Feu      | eP    |       | 16.3  |      |            |       |       |
| Wichita M.        | eP    |       | 20.8  |      |            | 9120  | 82.1  |
| Trieste           | eP    |       | 21.7  | e    | 34.5       | 9155  | 82.4  |
| Roselend          | eP    |       | 27    | e1   | 47.4       |       |       |
| Sommée Lormes     | eP    |       | 32.4  |      |            | 9330  | 84.4  |
| Garchy            | eP    |       | 34.0D |      |            |       |       |
| Les Buteaux       | eP    |       | 34.3  |      |            |       |       |
| St Saulge         | eP    |       | 34.8  |      |            | 9410  | 84.7  |
| Vouglans          | eP    |       | 35    | e    | 50         |       |       |
| Lanslevillard     | eP    |       | 39    | e    | 56         |       |       |
| Toulx Ste Croix   | eP    |       | 40.8  |      |            |       |       |
| St Paul en Foret  | eP    |       | 45.1  |      |            |       |       |
| Lorgues           | eP    |       | 46.6  |      |            |       |       |
| Cumberland Pl     | eP    |       | 51.5  |      |            | 9790  | 88.1  |
| Bangui            | ePKP1 | 54    | 12.1  | 1PP  | 54 44.1    | 16070 | 144.6 |
| Novo Lazarevskaya | ePKP1 |       | 34.5  |      |            |       |       |

inscrit à Istanbul Uti, l'Aquila, Toledo, Abuyama.

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Sicile

H = 18h51<sup>m</sup>(02)S. (ING).

M = 3.3 (Roma)

|                  |     |       |      |     |       |      |     |     |
|------------------|-----|-------|------|-----|-------|------|-----|-----|
| Messina          | 1Pn | 18 51 | 44.5 | 1Sn | 18 52 | 11.8 | 230 | 2.1 |
| Reggio Calabria  | e   |       | 49.8 | e   |       | 02.0 |     |     |
| Roma             | e   | 52    | 10.5 | e   |       | 27.5 |     |     |
| La Mourre        | e1P |       | 54.6 |     |       |      |     |     |
| St Paul en Foret | e1P |       | 55.9 |     |       |      |     |     |
| Lorgues          | e1P |       | 57.4 |     |       |      |     |     |

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|               |     |          |    |          |
|---------------|-----|----------|----|----------|
| Ljubljana     | eP  | 18 53 10 | e  | 18 54 23 |
| Lanslevillard | (e) | 54 29    | e  | 36       |
| Roselend      | e   | 29       | ei | 38       |

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Sicile

H = 18<sup>h</sup>52<sup>mn</sup>(25)<sup>s</sup> ING. M = 3.3 (Roma).

|                 |    |            |   |          |
|-----------------|----|------------|---|----------|
| Reggio Calabria | e  | 18 53 09.6 |   |          |
| Messina         | e  | 23         | i | 18 53 45 |
| Roma            | eS | 54 33.5    |   |          |
| Kasperské Hory  | e  | 55 03.5    |   |          |

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H = 19<sup>h</sup>25<sup>mn</sup>18<sup>s</sup> (Athènes)

Ressenti IV à St Eustratios (île de St Eustratios)

|           |      |                         |      |            |     |     |
|-----------|------|-------------------------|------|------------|-----|-----|
| Paraskevi | eIPn | 19 25 42.1 <sup>D</sup> | eISg | 19 25 57.9 | 130 | 1.2 |
|-----------|------|-------------------------|------|------------|-----|-----|

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Région nord du Chili

22°0S, 68°5W, h = 118km.

H = 20<sup>h</sup>12<sup>mn</sup>41.7<sup>s</sup> (CGS)

22°1S, 67°9W

H = 20<sup>h</sup>12<sup>mn</sup>33<sup>s</sup> (URSS)

M = 6.0 (South Pole), 5.7 (Cumberland Pl), 5.6 (Blue M), 5.5 (Edmonton, La Paz), 5.4 (Albuquerque), 5.3 (CGS, La Palma, Uinta Basin, Dugway, Windhoek), 5.2 (Bangui, Tonto Forest), 5.0 (Eureka), 4.9 (Wichita M, Longmire).

|               |    |                      |       |            |      |      |
|---------------|----|----------------------|-------|------------|------|------|
| Antofagasta   | 1P | 20 13 18.7           | 1S    | 20 13 44.0 | 270  | 2.4  |
| Cochabamba    | 1P | 57.7                 |       |            | 565  | 5.1  |
| La Paz        | 1P | 14 03.0              | 1S    | 15 07      | 600  | 5.4  |
| Penas         | 1P | 06.4                 | S     | 05         | 635  | 5.7  |
| Arequipa      | 1P | 07.0                 | 1S    | 12.2       | 690  | 6.2  |
| Peldehue      | eP | 15 12.5              |       |            | 1255 | 11.3 |
| Santiago      | eP | 15.5                 |       |            | 1290 | 11.6 |
| Huancayo      | eP | 29.1                 |       |            | 1310 | 11.8 |
| Nana          | eP | 39.0                 | eS    | 18 06.0    | 1410 | 12.7 |
| Valdivia      | eP | 16 46                | e     | 20 10.0    | 2020 | 18.2 |
| Quito         | P  | 17 49.5              | e     | 21 35      | 2630 | 23.7 |
| Bogota        | eP | 18 16.0              | eS    | 22 40.0    | 3000 | 27.0 |
| Caxacas       | eP | 59                   | eIS   | 24 50      | 3595 | 32.3 |
| Trinidad      | eP | 19 08.5              |       |            | 3690 | 33.2 |
| La Palma      | 1P | 20 18.0 <sup>D</sup> |       |            | 4600 | 41.4 |
| Vista Hermosa | 1P | 21 10.5              |       |            | 5305 | 47.8 |
| Cumberland Pl | 1P | 22 32.8              | e     | 23 01.1    | 6610 | 59.5 |
| Blacksburg    | 1P | 36.2                 | S     | 30 42.0    | 6655 | 59.9 |
| M'bour        | 1P | 51                   | 1S    | 31 10      | 6905 | 62.1 |
| Byrd          | 1P | 51.9                 | edP   | 33 21.0    | 6900 | 62.1 |
| Wichita M.    | eP | 57.3                 | eSKS1 | 32 41.4    | 7020 | 63.2 |
| Weston        | eP | 23 6.0               | eS    | 31 31.0    | 7120 | 64.1 |

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|                   |     |    |    |                   |     |    |      |    |       |      |
|-------------------|-----|----|----|-------------------|-----|----|------|----|-------|------|
| Novo Lazarevskaya | 1P  | 20 | 23 | 16 <sup>D</sup>   | 1S  | 20 | 32   | 01 | 7360  | 66°2 |
| Manhattan         | eP  |    |    | 18°0              |     |    |      |    | 7370  | 66°3 |
| Berlin            | eP  |    |    | 20°0              |     |    |      |    | 7370  | 66°3 |
| Morgantown        | i   |    |    | 21°0 <sup>C</sup> |     |    |      |    | 6910  | 62°2 |
| Albuquerque       | 1P  |    |    | 24°0              | e   | 23 | 51°0 |    | 7455  | 67°1 |
| Brébeuf           | eP  |    |    | 25                |     |    |      |    | 7480  | 67°3 |
| Ottawa            | eP  |    |    | 26°0              | i   | 29 | 38°0 |    | 7490  | 67°4 |
| Tucson            | 1P  |    |    | 26°2 <sup>C</sup> | e   | 23 | 55°0 |    | 7510  | 67°5 |
| Lamto             | P   |    |    | 30°0              |     |    |      |    | 7580  | 68°2 |
| South Pole        | 1P  |    |    | 30°7              | epP | 24 | 00°3 |    | 7570  | 68°1 |
| Caribou           | 1P  |    |    | 33°3              |     |    |      |    | 7620  | 68°6 |
| Tonto Forest      | eP  |    |    | 37°7              | eS  | 32 | 36°0 |    | 7690  | 69°2 |
| Glen Canyon       | 1P  |    |    | 51°7 <sup>D</sup> | esp | 24 | 20°2 |    | 7920  | 71°3 |
| Uinta Basin       | 1P  |    |    | 59°6              | eS  | 33 | 21°0 |    | 8090  | 72°8 |
| Flaming Gorge     | 1P  | 24 |    | 01°3              | e   | 24 | 34°7 |    | 8130  | 73°2 |
| Pasadena          | 1P  |    |    | 02 <sup>D</sup>   | eS  | 33 | 24   |    | 8120  | 73°1 |
| Dugway            | eP  |    |    | 08°6              | e   | 24 | 50°4 |    | 8270  | 74°4 |
| Tiputa            | 1P  |    |    | 11°7              |     |    |      |    | 8290  | 74°6 |
| Scott Base        | eP  |    |    | 15°0              |     |    |      |    | 8330  | 75°4 |
| Dureka            | 1P  |    |    | 15°5              |     |    |      |    | 8390  | 75°5 |
| Papeete           | 1P  |    |    | 16°0              |     |    |      |    | 8400  | 75°6 |
| Papenoo           | 1P  |    |    | 16°0              |     |    |      |    | 8390  | 75°5 |
| Priest            | eP  |    |    | 17°9 <sup>D</sup> |     |    |      |    | 8445  | 76°0 |
| San Luis Dam      | 1P  |    |    | 22°9              | i   |    | 52°0 |    | 8545  | 76°9 |
| Jamestown         | eP  |    |    | 23°3 <sup>D</sup> | esp |    | 52°0 |    | 8555  | 77°0 |
| Sa da Bandeira    | 1P  |    |    | 25°6              |     |    |      |    | 8590  | 77°3 |
| Mt Hamilton       | eP  |    |    | 25°8 <sup>D</sup> | esp |    | 55°0 |    | 8600  | 77°4 |
| Windhoek          | 1P  |    |    | 29°1 <sup>D</sup> |     |    |      |    | 8670  | 78°0 |
| Berkeley          | eP  |    |    | 29°5 <sup>C</sup> | esp |    | 59°0 |    | 8680  | 78°1 |
| Butte             | 1P  |    |    | 32°2 <sup>D</sup> | esp | 25 | 00°6 |    | 8730  | 78°6 |
| Oroville          | 1P  |    |    | 32°6              | i   |    | 02°5 |    | 8745  | 78°7 |
| Mineral           | P   |    |    | 34°6 <sup>D</sup> |     |    |      |    | 8810  | 79°3 |
| Averroes          | P   |    |    | 39°5              | i   |    | 09°5 |    | 8900  | 80°1 |
| Blue M.           | 1P  |    |    | 39°7 <sup>D</sup> |     |    |      |    | 8890  | 80°0 |
| Hungry Horse      | 1P  |    |    | 44°0              | esp |    | 15°0 |    | 9000  | 81°0 |
| Ifrane            | 1P  |    |    | 49°5              |     |    |      |    | 9090  | 81°8 |
| Spokane           | 1P  |    |    | 50°5              | i   |    | 19°9 |    | 9120  | 82°1 |
| Newport           | 1P  |    |    | 51°0              |     |    |      |    | 9155  | 82°4 |
| Nordman           | 1P  |    |    | 52°0              |     |    |      |    | 9170  | 82°5 |
| Corvallis         | eP  |    |    | 55°0              |     |    |      |    | 9220  | 83°0 |
| Longmire          | 1P  |    |    | 57°8              |     |    |      |    | 9290  | 83°6 |
| Edmonton          | 1P  | 25 |    | 00°0              |     |    |      |    | 9330  | 84°4 |
| Tamanrasset       | 1P  |    |    | 04°0 <sup>C</sup> | i   |    | 34°0 |    | 9410  | 84°7 |
| Frobisher         | eP  |    |    | 06°3 <sup>D</sup> |     |    |      |    | 9480  | 85°4 |
| Toledo            | 1P  |    |    | 10°6 <sup>C</sup> | 1S  | 35 | 36°0 |    | 9555  | 86°0 |
| Bangui            | 1P  |    |    | 25°1              | 1S  |    | 43°1 |    | 9880  | 88°9 |
| Bulawayo          | eP  |    |    | 26                |     |    |      |    | 9880  | 88°9 |
| Changalane        | eP  |    |    | 28°5              |     |    |      |    | 9945  | 89°5 |
| Karoi             | eP  |    |    | 34                |     |    |      |    | 10110 | 91°0 |
| Broken Hill       | eP  |    |    | 36                |     |    |      |    | 10110 | 91°0 |
| Le Pertre         | eP  |    |    | 38°3              |     |    |      |    | 10235 | 92°1 |
| Gorron            | e1P |    |    | 39°4              |     |    |      |    | 10270 | 92°4 |
| Les Buteaux       | eP  |    |    | 44°1              |     |    |      |    | 10510 | 94°6 |

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|                  |       |       |        |   |             |        |        |
|------------------|-------|-------|--------|---|-------------|--------|--------|
| Sommée Lormes    | eP    | 20 25 | 42° 3  |   | 10510       | 94° 6  |        |
| Toulx Ste Croix  | eP    |       | 44° 1  |   | 10355       | 93° 2  |        |
| St Saulge        | eP    |       | 45° 4  |   | 10490       | 94° 4  |        |
| Folinigre        | eP    |       | 48° 5  |   | 10310       | 92° 8  |        |
| St Sauveur       | eP    |       | 49° 2  |   | 10430       | 92° 9  |        |
| La Mourre        | eP    |       | 49° 9  |   | 10510       | 94° 6  |        |
| Lorgues          | eP    |       | 50° 0  |   | 10500       | 94° 5  |        |
| St Paulen Forest | eP    |       | 51° 0  |   | 10485       | 94° 4  |        |
| Roselend         | eP    |       | 55     |   | 10630       | 95° 7  |        |
| Lanslevillard    | eP    |       | 56     | e | 20 26 29    | 10630  | 95° 7  |
| Chileka          | eP    | 26    | 06     |   | 10690       | 96° 2  |        |
| Bakouriani       | 1PKP1 | 31    | 21° 6  |   | 13390       | 120° 5 |        |
| Mundaring        | 1PKP1 |       | 31° 6C |   | 14015       | 126° 1 |        |
| Charters Towers  | 1PKP  |       | 32D    |   | 14010       | 126° 1 |        |
| Chiraz           | PKP   |       | 32° 2  |   | 14120       | 127° 1 |        |
| Tiksi            | 1PKP1 |       | 35D    |   | 14370       | 129° 3 |        |
| Vannovskaya      | ePKP1 |       | 43     |   | 14745       | 132° 7 |        |
| Warramunga       | ePKP  |       | 44° 5C |   | 14745       | 132° 7 |        |
| Quetta           | ePKP  |       | 51° 8D |   | 15490       | 139° 4 |        |
| Garm             | ePKP1 |       | 53     |   | 15670       | 141° 0 |        |
| Warsak           | ePKP  |       | 59° 1  |   | 15870       | 142° 8 |        |
| Semipalatinsk    | ePKP1 |       | 59° 3  |   | 15840       | 142° 6 |        |
| Bodajbo          | 1PKP1 | 32    | 01° 4D |   | 16015       | 144° 1 |        |
| Frounze          | ePKP1 |       | 02     |   | 15885       | 143° 0 |        |
| Poona            | ePKP  |       | 05     |   | 16070       | 144° 6 |        |
| Talgar           | 1PKP1 |       | 06     |   | 16070       | 144° 6 |        |
| Lahore           | ePKP  |       | 08     |   | 16180       | 145° 6 |        |
| Kodaikanal       | 1PKP  |       | 09     |   | 16150       | 145° 4 |        |
| Guam             | PKP   |       | 13° 0  |   | 16355       | 147° 2 |        |
| Madras           | ePKP  |       | 15     |   | 16540       | 148° 9 |        |
| Irkoutsk         | ePKP1 |       | 17     |   | 16585       | 149° 3 |        |
| New Dehli        | ePKP  |       | 20     |   | 16490       | 148° 4 |        |
| Mt Tsukuba       | ePKP  |       | 22° 5  |   | 16820       | 151° 4 |        |
| Lembang          | PKP   |       | 24° 0  |   | 16790       | 151° 1 |        |
| Kyosumi          | PKP   |       | 24° 1  | e | 20 32 56° 1 | 16855  | 151° 7 |
| Dodaira          | PKP   |       | 24° 4  | e | 56° 3       | 16910  | 152° 2 |
| Chatra           | 1PKP  |       | 26C    |   | 17480       | 157° 3 |        |
| Vladivostok      | ePKP1 |       | 2 6    |   | 16995       | 152° 9 |        |
| Shillong         | PKP   |       | 30° 5  |   | 17970       | 161° 7 |        |
| Shiraki          | (PKP) |       | 45° 4  |   | 17510       | 157° 6 |        |

XLIX. 30 janvier  
Données insuffisantes

|                |       |    |    |        |   |      |    |       |
|----------------|-------|----|----|--------|---|------|----|-------|
| Tabriz         | 1P    | 21 | 59 | 50° 1  | 1 | 21   | 59 | 52° 0 |
| Ksara          | e(Pn) | 22 | 00 | 31     | 1 | (Sn) | 22 | 02 05 |
| Ljubljana      | Pn    |    | 03 | 33     |   |      |    |       |
| Kasperské Hory | e     |    |    | 44     |   |      |    |       |
| Erlangen       | e(P)  |    | 04 | 01° 3C |   |      |    |       |
| Roselend       | e     |    |    | 29     |   |      |    |       |
| Tamanrasset    | eP    |    |    | 05     |   |      |    |       |

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L. 30 janvier  
Nord du Grand Caucase

44° 1'N, 43° 2'E

H = 22<sup>h</sup>33<sup>mn</sup>35<sup>s</sup>  
M = 4.5 (URSS)

|              |    |          |    |          |      |      |
|--------------|----|----------|----|----------|------|------|
| Gori         | iP | 22 33 56 |    |          | 210  | 1.9  |
| Sotchi       | eP | 34 15    | eS | 22 34 48 | 290  | 2.6  |
| Tbilisi      | P  | 17       | S  | 48       | 290  | 2.6  |
| Makhatchkala | eP | 26       | S  | 35 06    | 370  | 3.3  |
| Goris        | eP | 35 00    |    |          | 570  | 5.1  |
| Tabriz       | eP | 31       | e  | 36 38    |      |      |
| Niedzica     | eP | 37 24    | e  | 42 29    |      |      |
| Sverdløvsk   | eP | 29       |    |          | 1870 | 16.8 |
| Nurmijaervi  | iP | 38 07.0  |    |          |      |      |
| Garm         | eP | 14       |    |          | 2310 | 20.8 |
| Kajaani      | iP | 26.5     | iS | 26.8     |      |      |
| Oulu         | eP | 40       |    |          |      |      |
| Uméa         | iP | 46.1     |    |          |      |      |
| Talgar       | eP | 53       |    |          | 2745 | 24.7 |
| Sodankylae   | eP | 58       |    |          |      |      |
| Lillehammer  | P  | 39 06.3  |    |          |      |      |
| Uméa         | iP | 40 05.3  |    |          |      |      |

I. 31 janvier  
Alpes occidentales  
Données insuffisantes

|                  |      |          |     |            |    |     |
|------------------|------|----------|-----|------------|----|-----|
| Lanslevillard    | eIPg | 00 31 10 | iSg | 00 31 15.8 | 50 | 0.5 |
| St Paul en Foret | ePg  | 21.6     |     |            |    |     |
| Lorgues          | ePg  | 23.4     |     |            |    |     |
| La Murre         | ePg  | 26.4     |     |            |    |     |

II. 31 janvier  
Région des îles volcano

24° 2'N, 141° 1'E, h = 173<sup>km</sup>, H = 01<sup>h</sup>17<sup>mn</sup>45<sup>s</sup> (CGS)

M = 5.0 (Palmer), 4.8 (Gilmore Creek), 4.6 (CGS, Uinta Basin), 4.4 (Mt Tsukuba, Blue M).

|               |    |                      |   |          |      |      |
|---------------|----|----------------------|---|----------|------|------|
| Kiyosumi      | eP | 01 20 19.1           |   |          | 1220 | 11.0 |
| Mt. Tsukuba   | eP | 29.3                 |   |          | 1335 | 12.0 |
| Dodaira       | eP | 29.5                 |   |          | 1310 | 11.8 |
| Warramunga    | eP | 25 39.5              | Z | 01 26 21 | 4935 | 44.4 |
| Palmer        | eP | 27 30                |   |          | 6800 | 59.4 |
| Gilmore Creek | eP | 37.7                 |   |          | 6720 | 60.5 |
| Qietta        | eP | 28 11.2 <sup>D</sup> |   |          |      |      |
| Mould Bay     | eP | 32 <sup>D</sup>      |   |          | 7655 | 68.9 |
| Kajaani       | eP | 29 25                |   |          |      |      |
| Edmonton      | eP | 35                   |   |          | 8855 | 79.7 |
| Uméa          | iP | 40.3                 |   |          |      |      |
| Blue M.       | eP | 42.1                 |   |          | 9000 | 81.0 |
| Jamestown     | eP | 45                   |   |          | 9090 | 81.8 |

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|             |      |          |       |        |
|-------------|------|----------|-------|--------|
| Woody       | 1P   | 01 29 56 | 9320  | 83° 9  |
| Uinta Basin | eP   | 30 18    | 9800  | 88° 2  |
| Penas       | ePKP | 37 21    |       |        |
| La Paz      | PKP  | 21° 5    | 16855 | 151° 7 |

inscrit à Longmire.

III.- 31 Janvier

Région des Iles Fidji.

17° 9 S ; 178° 1 W ; h = 632 km ; H = 01h.20<sup>mn</sup>44<sup>s</sup>. (CGS)

M. = 4° 6 (Gilmore Creek) ; 4° 5 (Uinta Basin) ; Wichita M.) ; 4° 4 (CGS) ;  
4° 3 (Eureka) ; 4° 2 (Blue M.) ; 4° 1 (Tonto Forest).

|                 |      |                       |      |          |       |        |
|-----------------|------|-----------------------|------|----------|-------|--------|
| Afiamalu        | eP   | 01 22 34              | eS   | 01 24 02 |       |        |
| Port Vila       | 1P   | 23 32° 7 <sup>D</sup> |      |          | 1455  | 13° 0  |
| Luganville      | 1P   | 46 <sup>D</sup>       |      |          | 1600  | 14° 4  |
| Charters Towers | 1P   | 26 37° 9              |      |          | 3755  | 33° 8  |
| Canberra        | eP   | 40                    |      |          | 3780  | 34° 0  |
| Warramunga      | 1P   | 28 06° 5 <sup>C</sup> |      |          | 4990  | 44° 9  |
| Byrd            | eP   | 30 33° 6              |      |          | 7465  | 67° 2  |
| Prist           | eP   | 31 32° 3 <sup>D</sup> |      |          | 8480  | 76° 3  |
| Mt. Hamilton    | eP   | 32° 3 <sup>D</sup>    |      |          | 8490  | 76° 4  |
| Pasadena        | 1P   | 35                    |      |          | 8555  | 77° 0  |
| Woody           | 1P   | 37                    |      |          | 8590  | 77° 3  |
| Jamestown       | eP   | 38° 0 <sup>D</sup>    |      |          | 8610  | 77° 5  |
| Mineral         | eP   | 41° 9 <sup>C</sup>    |      |          |       |        |
| Big Mountain    | eP   | 45° 7                 |      |          | 8800  | 79° 2  |
| Sparrevohn      | eP   | 53° 7                 |      |          | 8965  | 80° 7  |
| Eureka          | 1P   | 57° 8                 |      |          | 9035  | 81° 3  |
| Palmer          | eP   | 59                    |      |          | 9165  | 82° 5  |
| Tonto Forest    | eP   | 32 02° 1              |      |          | 9110  | 82° 0  |
| Mts Sheep Creek | eP   | 06                    |      |          | 9235  | 83° 1  |
| Blue M.         | eP   | 07° 2                 |      |          | 9255  | 83° 3  |
| Glen Canyon     | 1P   | 08                    |      |          | 9220  | 83° 0  |
| Gilmore Creek   | eP   | 10° 7                 |      |          | 9535  | 85° 8  |
| Pedro Dome      | eP   | 10° 7                 |      |          | 9545  | 85° 9  |
| College         | eP   | 11° 3                 |      |          | 9520  | 85° 7  |
| Newport         | eP   | 17                    |      |          | 9480  | 85° 3  |
| Nordman         | eP   | 18                    |      |          | 9510  | 85° 6  |
| Uinta Basin     | eP   | 20° 4                 |      |          | 9555  | 86° 0  |
| Butte           | eP   | 24° 2                 |      |          | 9645  | 86° 8  |
| Edmonton        | 1P   | 33                    |      |          | 9990  | 89° 9  |
| Wichita M.      | eP   | 46° 5                 |      |          | 10190 | 91° 7  |
| La Paz          | eP   | 33 35                 |      |          | 11455 | 103° 1 |
| Oulu            | ePKP | 38 42                 |      |          |       |        |
| Uméa            | 1PKP | 44° 2                 |      |          |       |        |
| Kajaani         | 1PKP | 45° 1                 | eSKP | 01 41 16 | 14510 | 130° 6 |

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|                   |                       |                   |    |            |             |
|-------------------|-----------------------|-------------------|----|------------|-------------|
| Nurmijaerwi       | PKP                   | 01 38 53          |    | 14935      | 134°4       |
| Collm             | PKP                   | 39 14·4           |    | 16165      | 145°5       |
| Niedzica          | ePKP                  | 14·6              |    |            |             |
| Kasperské Hory*   | PKP                   | 16                |    | 16330      | 147°4       |
| Moxa              | PKP                   | 16                |    | 16265      | 146°4       |
| Pruhonice         | PKP                   | 18                |    | 16285      | 146°4       |
| Erlangen          | ePKP <sub>1</sub>     | 20·2 <sup>D</sup> |    |            |             |
| Ljubljana         | ePKIKP                | 21                |    |            |             |
| Folinigre         | PKP                   | 24                |    | 16565      | 149°1       |
| St. Sauveur       | PKP                   | 24                |    | 16590      | 149°3       |
| Welschbruch       | iPKP                  | 24·7              |    |            |             |
| Gorron            | PKP                   | 24·8              |    | 16610      | 149°5       |
| Le Pertre         | eiPKP <sub>1</sub>    | 25·8              |    |            |             |
| Paraskevi         | ePKP                  | 26·6              |    |            |             |
| Trieste           | PKP                   | 27·5              | e  | 01 39 36·5 | 16720 150°5 |
| Sommée Lormes     | PKP                   | 27·9              |    | 16735      | 150°6       |
| Garchy            | iPKP                  | 28 <sup>D</sup>   |    |            |             |
| Les Buteaux       | eiPKP <sub>1</sub>    | 28·4              |    |            |             |
| St. Saulge        | PKP                   | 28·5              |    | 16755      | 150°8       |
| Vouglans          | ePKP <sub>1</sub>     | 30                |    |            |             |
| Toulx Ste Croix   | eiPKP <sub>1</sub>    | 30·1              |    |            |             |
| Roselend          | eiPKP <sub>1</sub>    | 31                |    |            |             |
| Lanslevillard     | eiPKP <sub>1</sub>    | 32                | ei | 34·4       |             |
| St. Paul en Foret | ei(PKP <sub>1</sub> ) | 52·8              |    |            |             |
| Lorgues           | ei(PKP <sub>1</sub> ) | 52·8              |    |            |             |
| La Mourre         | ei(PKP <sub>1</sub> ) | 53·1              |    |            |             |

inscrit à Toledo - Istanbul - Black Rapids.

IV. 31 Janvier

Basse Californie

24°7 N ; 111°5 W ; h = 33km ; H = 01h.23<sup>mm</sup>45·2S. (CGS)

M. = 5·5(Tucson - Mould Bay - Nurmijaerwi) ; 5·3(Tonto Forest) ; 5·0(Albuquerque) ;  
4·9(Dugway - CGS) ; 4·8(Wichita M.) ; 4·6(Eureka - Cumberland Pl.) ;  
4·3(Blue M.) ; 4·2(Uinta Basin).

|                   |    |                      |    |          |      |      |
|-------------------|----|----------------------|----|----------|------|------|
| Tucson            | eP | 01 25 37·7           | eL | 01 27 12 | 855  | 7°7  |
| Tonto Forest      | eP | 26 05                |    |          | 1065 | 9°6  |
| Flagstaff         | eP | 25·8                 | e  | 30 11    | 1180 | 10°6 |
| Pasadena          | iP | 26                   | eL | 28 54    | 1235 | 11°1 |
| Albuquerque       | eP | 28                   | e  | 48       | 1235 | 11°1 |
| Lubbock           | eP | 41·5                 |    |          | 1355 | 12°2 |
| Glen Canyon       | eP | 44                   | e  | 26 46·5  | 1365 | 12°3 |
| Nat. Univ. Mexico | eP | 46                   | eS | 29 23    |      |      |
| Tacubaya          | eP | 48                   |    |          |      |      |
| Priest            | eP | 27 02·5 <sup>C</sup> | e  | 27 13·8  | 1545 | 13°9 |
| Wichita M.        | eP | 16·5                 | eS | 30 20    | 1665 | 15°0 |

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|                 |     |       |                   |             |       |       |
|-----------------|-----|-------|-------------------|-------------|-------|-------|
| Mt. Hamilton    | eP  | 01 27 | 20°5 <sup>C</sup> |             | 1700  | 15°3  |
| Jamestown       | eP  |       | 20°6 <sup>C</sup> |             | 1700  | 15°3  |
| Eureka          | iP  |       | 24°4              |             | 1700  | 15°3  |
| Vista Hermosa   | iP  |       | 26                |             |       |       |
| Uinta Basin     | eP  |       | 27                | eS 21 30 38 | 1745  | 15°7  |
| Dugway          | eP  |       | 27°6              |             | 1720  | 15°5  |
| Flaming Gorge   | eP  |       | 36°5              |             | 1810  | 16°3  |
| Oroville        | eP  |       | 44                | i 31 39°3   | 1900  | 17°1  |
| Presa Benito J. | eP  |       | 42                |             |       |       |
| Tulsa           | iP  |       | 48 <sup>C</sup>   |             | 1955  | 17°6  |
| Mineral         | eP  |       | 54°7 <sup>C</sup> |             |       |       |
| Manhattan       | eP  | 28    | 08                |             | 2135  | 19°2  |
| Blue M.         | eP  |       | 24°3              |             | 2300  | 20°7  |
| Bitte           | eP  |       | 29°6              |             | 2365  | 21°3  |
| La Palma        | eP  |       | 53°2              |             | 2600  | 23°4  |
| Newport         | eP  |       | 57                |             | 2665  | 24°0  |
| Nordman         | eP  | 29    | 01                |             | 2700  | 24°3  |
| Cumberland Pl.  | eP  |       | 05°3              |             | 2765  | 24°9  |
| Oak Ridge       | iP  |       | 17°3              |             | 2880  | 25°9  |
| Chihuahua       | e   | 30    | 09                |             |       |       |
| Coppermine      | eP  |       | 31.44             |             | 4800  | 43°2  |
| Vera Cruz       | e   | 32    | 12                |             |       |       |
| Resolute        | eP  |       | 43                |             | 5645  | 50°8  |
| Mould Bay       | eP  |       | 50                |             | 5755  | 51°8  |
| Penas           | eP  | 33    | 35                |             |       |       |
| La Paz          | eP  |       | 40                |             |       |       |
| Kiruna          | iP  | 35    | 59°7              |             |       |       |
| Lillehammer     | iP  | 36    | 07°8              |             | 9200  | 82°8  |
| Sodankylä       | eP  |       | 08                |             | 9235  | 83°1  |
| Kongsberg       | iP  |       | 09°9              |             | 9245  | 83°2  |
| Umeå            | iP  |       | 13°6              |             |       |       |
| Oulu            | eP  |       | 15                |             |       |       |
| Nurmijaerwi     | iP  |       | 33°3              |             | 9765  | 87°9  |
| Broken Hill     | PKP | 43    | 07                |             | 15665 | 141°0 |
| Karoi           | PKP |       | 10                |             | 15880 | 142°9 |
| Changalane      | PKP |       | 24°7              |             | 16355 | 147°2 |
| Chileka         | PKP |       | 28                |             | 16365 | 147°3 |

Inscrit à l'Aquila - Berkeley.

V. - 31 Janvier

Province de Santiago del Estero (Argentine)

27°7 S ; 63°2 W ; h = 580 km ; H = 02h.03<sup>mm</sup>29.4<sup>s</sup>. (CGS)  
 28°6 S ; 63°5 W ; H = 02h.02<sup>mm</sup>27<sup>s</sup>. (URSS)

M. = 6.0 (Bangui) ; 5.9 (Stuttgart) ; 6.7 (Cumberland Pl.) ; 5.4 (Windhoek) ; 5.2 (La Paz) ; 5.0 (Newport) ; 4.9 (CGS) ; 4.8 (Albuquerque) ; 4.7 (Blue M.) ; 4.6 (Eureka) ; 4.5 (Tucson - Tonto Forest - Dugway) ; 4.2 (Wichita M.) ; 3.7 (Uinta Basin).



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|                 |    |                         |                   |          |      |      |
|-----------------|----|-------------------------|-------------------|----------|------|------|
| Antofagasta     | 1P | 02 05 24°6 <sup>C</sup> | 1S                | 02 06 58 | 850  | 7°6  |
| Peldehue        | 1P | 32°1 <sup>C</sup>       | i                 | 05 56    | 935  | 8°4  |
| Santiago        | 1P | 34°5 <sup>D</sup>       |                   |          | 955  | 8°6  |
| Cochabamba      | 1P | 53°9                    |                   |          | 1180 | 10°6 |
| La Paz          | P  | 06 09°2 <sup>C</sup>    | S                 | 08 18°4  | 1335 | 12°0 |
| Penas           | 1P | 13°1                    | S                 | 25       | 1375 | 12°4 |
| Arequipa        | 1P | 25                      | 1S                | 50       | 1510 | 13°6 |
| Valdivia        | eP | 34                      |                   |          | 1635 | 14°7 |
| Huancayo        | 1P | 07 20                   |                   |          | 2145 | 19°3 |
| Quito           | P  | 09 05°1                 |                   |          | 3455 | 31°1 |
| Trinidad        | 1P | 10 00°3                 |                   |          | 4245 | 33°2 |
| Caracas         | 1P | 59°8                    | ei                | 12 48    | 4240 | 33°2 |
| Presa Benito J. | 1P | 12 00°6                 |                   |          | 5985 | 53°8 |
| Vista Hermosa   | 1P | 12                      |                   |          | 6135 | 55°2 |
| Byrd            | 1P | 23°9                    | e(SP)             | 13 09°6  | 6355 | 57°2 |
| M' Bour         | 1P | 50                      | e                 | 23 03    | 6810 | 61°3 |
| South Pole      | eP | 58°4                    |                   |          | 6935 | 62°4 |
| Lamto           | P  | 13 06°9                 |                   |          | 7230 | 65°5 |
| Oak Ridge       | 1P | 21°6                    |                   |          | 7380 | 66°4 |
| Cumberland Pl.  | 1P | 22°1                    |                   |          | 7380 | 66°4 |
| Black Rapids    | 1P | 23°6                    | S                 | 21 31°4  | 7400 | 66°6 |
| Washington      | 1P | 31°4                    |                   |          | 7520 | 67°7 |
| Weston          | 1P | 45°6                    |                   |          | 7800 | 70°2 |
| Tulsa           | 1P | 46°5 <sup>D</sup>       |                   |          | 7820 | 70°4 |
| Wichita M.      | eP | 46°6                    | eS                | 22 13°8  | 7845 | 70°6 |
| Lubbock         | eP | 51                      |                   |          | 7910 | 71°2 |
| Windhoek        | 1P | 54°1                    |                   |          | 7955 | 71°6 |
| Sada Bandeira   | 1P | 54°8                    | i                 | 15 54°4  | 7965 | 71°7 |
| Berlin          | 1P | 59                      |                   |          | 8035 | 72°3 |
| Brébeuf         | 1P | 14 04°9                 | i                 | 16 05    | 8165 | 73°5 |
| Manhattan       | eP | 05                      |                   |          | 8165 | 73°5 |
| Ottawa          | 1P | 05°5 <sup>D</sup>       |                   |          | 8190 | 73°7 |
| Caribou         | 1P | 10°7                    |                   |          | 8265 | 74°4 |
| Albuquerque     | 1P | 11°2 <sup>D</sup>       | e                 | 12       | 8280 | 74°5 |
| Tucson          | 1P | 13° <sup>D</sup>        | e                 | 14       | 8329 | 74°9 |
| Tonto Forest    | eP | 23°1                    | eS                | 23 24°5  | 8520 | 76°7 |
| Glen Canyon     | 1P | 35°3 <sup>D</sup>       | esP               | 16 38    | 8755 | 78°8 |
| Uinta Basin     | eB | 41°8                    | eSKS <sub>1</sub> | 24 03°1  | 8920 | 80°3 |
| Averroes        | P  | 42                      |                   |          | 8945 | 80°5 |
| Flaming Gorge   | eP | 43                      | esP               | 16 47    | 8955 | 80°6 |
| Pasadena        | 1P | 44                      | esP               | 47       | 8955 | 80°6 |
| Dugway          | eP | 50                      |                   |          | 9090 | 81°8 |
| Ifrane          | 1P | 52° <sup>D</sup>        |                   |          | 9120 | 82°1 |
| Bulawayo        | 1P | 52° <sup>D</sup>        | eS                | 24 22    | 9155 | 82°4 |
| Changalane      | 1P | 54°1 <sup>D</sup>       | 1pP               | 16 58°3  | 9180 | 82°6 |
| Eureka          | 1P | 56                      | i                 | 17 00°8  | 9200 | 83°0 |
| Tamanrasset     | 1P | 57° <sup>D</sup>        | i                 | 03       | 9245 | 83°2 |
| Lisboa          | P  | 57°1                    |                   |          | 9240 | 83°2 |
| Priest          | eP | 57°6 <sup>D</sup>       |                   |          | 9280 | 83°5 |
| Jamestown       | eP | 15 01°9 <sup>D</sup>    |                   |          | 9390 | 84°5 |
| Bangui          | 1P | 04°1 <sup>C</sup>       |                   |          | 9410 | 84°7 |

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|                   |                   |                       |     |          |       |       |
|-------------------|-------------------|-----------------------|-----|----------|-------|-------|
| Karoi             | iP                | 02 15 05 <sup>D</sup> | esP | 02 17 10 | 9410  | 84°7  |
| Mt. Hamilton      | eP                | 05°1 <sup>D</sup>     |     |          | 9420  | 84°8  |
| Broken Hill       | iP                | 06 <sup>D</sup>       | 1sP | 13       | 9420  | 84°8  |
| Almería           | iP                | 10                    | ePP | 18 46    | 9545  | 85°9  |
| Mineral           | eP                | 13°1 <sup>C</sup>     |     |          | 9640  | 86°7  |
| Toledo            | iP                | 14°6                  |     |          | 9650  | 86°9  |
| Oroville          | iP                | 16                    | 1   | 17 11°3  | 9580  | 86°2  |
| Blue M.           | eP                | 16°6                  |     |          | 9720  | 87°5  |
| Newport           | iP                | 26°8                  | e   | 33       | 9965  | 98°7  |
| Tortosa           | iP                | 30                    |     |          | 10020 | 90°2  |
| Sétif             | iP                | 31°5 <sup>C</sup>     |     |          | 10065 | 90°6  |
| Chileka           | iP                | 33 <sup>D</sup>       | esP | 41       | 9980  | 89°8  |
| Frobisher         | eP                | 33                    |     |          | 10135 | 91°2  |
| Edmonton          | eP                | 34°5 <sup>D</sup>     |     |          | 10180 | 91°6  |
| Bagnères          | eP                | 35                    |     |          | 10145 | 91°3  |
| Le Pertre         | e1P               | 45°4                  |     |          | 10415 | 93°7  |
| Gorron            | eP                | 46°8                  |     |          | 10445 | 94°0  |
| Toulx Ste Croix   | e1P               | 48°5                  |     |          | 10495 | 94°4  |
| Félinière         | eP                | 48°6                  |     |          | 10500 | 94°5  |
| St. Sauveur       | eP                | 49°2                  |     |          | 10510 | 94°6  |
| Clermont          | iP                | 50°5                  |     |          | 10515 | 94°6  |
| La Mourre         | e1P               | 52°6                  |     |          | 10585 | 95°3  |
| Lorgues           | e1P               | 52°9                  |     |          | 10585 | 95°2  |
| Garchy            | iP                | 53 <sup>D</sup>       |     |          | 10610 | 95°5  |
| St. Saulge        | eP                | 53°7                  |     |          | 10635 | 95°7  |
| St. Paul en Foret | e1P               | 53°9                  |     |          | 10610 | 95°5  |
| Les Buteaux       | e1P               | 54°7                  |     |          | 10650 | 95°8  |
| Monteynard        | e1P               | 55                    |     |          | 10630 | 95°7  |
| Sommée Lormes     | eP                | 55°1                  |     |          | 10655 | 95°9  |
| Vouglans          | e1P               | 58°5                  | e1  | 16 01°3  | 10715 | 96°5  |
| Roselend          | eP                | 58°9                  | e1  | 15 59°6  | 10735 | 96°6  |
| Lanslevillard     | e1P               | 59°3 <sup>D</sup>     | e1  | 16 07°5  | 10730 | 96°6  |
| Champ du Feu      | e1P               | 16 07°1               |     |          | 10940 | 98°5  |
| Luxembourg        | P                 | 09                    |     |          | 10940 | 98°5  |
| Stuttgart         | eP                | 13                    |     |          | 11090 | 99°8  |
| Fürstenfeldbruck  | eP                | 18                    |     |          | 11190 | 100°7 |
| Erlangen          | eP                | 20°3 <sup>D</sup>     | 1PP | 20 33°2  | 11260 | 101°4 |
| Moxa              | eP                | 23°5                  |     |          | 11345 | 102°1 |
| Kasperské Hory    | P                 | 25                    | e   | 43       | 11390 | 102°5 |
| Collm             | eP                | 28                    |     |          | 11455 | 103°1 |
| Pruhonice         | P                 | 30                    |     |          | 11490 | 103°4 |
| Wien              | e1 (PKP)          | 20 51                 |     |          | 11520 | 103°7 |
| Nurmijaerwi       | PKP               | 21 00°6               |     |          | 12520 | 112°7 |
| Sodankylä         | ePKP              | 03                    |     |          | 12795 | 115°2 |
| Oulu              | ePKP              | 04                    |     |          | 12710 | 114°4 |
| Kajaani           | PKP               | 05°3                  |     |          | 12780 | 115°0 |
| Moskva            | PKP <sub>1</sub>  | 12                    |     |          | 13155 | 118°4 |
| Kirovabad         | ePKP <sub>1</sub> | 15                    |     |          | 13525 | 121°7 |
| Bakouriani        | 1PKP <sub>1</sub> | 16°2 <sup>C</sup>     |     |          | 13315 | 119°8 |
| Goris             | ePKP <sub>1</sub> | 18                    |     |          | 13500 | 121°5 |

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|              |                   |       |                 |       |       |
|--------------|-------------------|-------|-----------------|-------|-------|
| Tabris       | iPKP              | 02 21 | 18°3            | 13465 | 121°2 |
| Chiraz       | PKP               |       | 24°1            | 13845 | 124°6 |
| Kizyl_Arvat  | iPKP <sub>1</sub> |       | 34 <sup>D</sup> | 14340 | 129°0 |
| Vannovskaya  | ePKP <sub>1</sub> |       | 35              | 14480 | 130°3 |
| Sverdlovsk   | iPKP <sub>1</sub> |       | 36 <sup>C</sup> | 14570 | 131°1 |
| Quetta       | PKP               |       | 36°1            | 15180 | 136°6 |
| Tiksi        | ePKP              |       | 39              | 15055 | 135°5 |
| Douchambé    | ePKP <sub>1</sub> |       | 42              | 15420 | 138°8 |
| Garm         | ePKP <sub>1</sub> |       | 45              | 15550 | 140°0 |
| Tachkent     | ePKP <sub>1</sub> |       | 47 <sup>C</sup> | 15450 | 139°1 |
| Warsak       | ePKP              |       | 48°3            | 15645 | 140°8 |
| Lahore       | ePKP              |       | 57              | 15895 | 143°1 |
| Frounze      | iPKP <sub>1</sub> |       | 57 <sup>D</sup> | 15865 | 142°8 |
| Yakoutsk     | iPKP <sub>1</sub> | 22    | 00 <sup>D</sup> | 16070 | 144°6 |
| Sempalatinsk | iPKP <sub>1</sub> |       | 01°7            | 16025 | 144°2 |
| Talgar       | iPKP <sub>1</sub> |       | 02 <sup>D</sup> | 16080 | 144°7 |
| Bodaibo      | iPKP <sub>1</sub> |       | 10 <sup>D</sup> | 16645 | 149°8 |
| Oulan Bator  | i(PKP)            |       | 23              | 17600 | 156°4 |
| Esen Boulak  | e(PKP)            |       | 47              | 17252 | 155°3 |

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Mer de Banda

6°9S, 130°3E, h = 22<sup>km</sup>

H = 02<sup>h</sup>58<sup>mn</sup>29°8S (CGS)

6°6S, 130°5E

H = 02<sup>h</sup>58<sup>mn</sup>32°S (URSS)

M = 5°73 (Nairobi), 5°6 (Poona, Shillong), 5°5 (CGS), 5°3 (Mt Tsukuba), 5°0 (Rabaul)

|                 |    |       |                   |            |           |
|-----------------|----|-------|-------------------|------------|-----------|
| Warramunga      | iP | 03 01 | 42°5 <sup>C</sup> | 1510       | 13°6      |
| Davao           | eP | 02 03 |                   | 1635       | 14°7      |
| Port Moresby    | iP |       | 29°2              | 1880       | 16°9      |
| Charters Towers | iP | 03 08 | °1                | 2255       | 20°3      |
| Esa'Ala         | iP |       | 10°4              |            |           |
| Rabaul          | eP |       | 21°5 <sup>D</sup> | e(S) 07 22 | 2435 21°9 |
| Meekatharra     | iP |       | 33°7 <sup>C</sup> |            |           |
| Baguio          | eP |       | 55                | iS 08 10   | 2790 25°1 |
| Quah            | iP |       | 55                | e(S) 04    | 2780 25°0 |
| Kalgoorlie      | iP |       | 57°2 <sup>C</sup> |            |           |
| Mundaring       | iP | 04    | 24°7 <sup>C</sup> |            |           |
| Honiarra        | eP |       | 27                |            | 3280 29°5 |
| Adelaide        | eP |       | 32                | i 04 53    |           |
| Brisbane        | iP |       | 34                | e(S) 10 24 | 3280 29°5 |
| Canberra        | iP | 05 07 | °5 <sup>D</sup>   | eS 19      | 3680 33°1 |
| Luganville      | iP |       | 41 <sup>C</sup>   |            | 4120 37°1 |
| Koumac          | i  |       | 47°7 <sup>C</sup> |            | 3955 35°6 |
| Nouméa          | i  | 06 06 | °C                |            | 4235 36°1 |
| Tarraleah       | i  |       | 06°8 <sup>D</sup> |            | 4220 36°0 |
| Moorlands       | i  |       | 10°9 <sup>D</sup> |            | 4265 37°4 |
| Oishiyama       | eP |       | 14                |            | 4565 41°1 |
| Shiraki         | eP |       | 16°1              |            | 4590 41°3 |

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|                 |                   |                      |      |            |       |       |
|-----------------|-------------------|----------------------|------|------------|-------|-------|
| Tasmanian Univ. | e                 | 03 05 24             |      |            | 432 0 | 38°9  |
| Kiyosumi        | eP                | 06 27°7              |      |            | 4765  | 42°9  |
| Dodaira         | eP                | 31°7                 |      |            | 4835  | 43°5  |
| Mt Tsukuba      | eP                | 34°6                 | eS   | 03 12 56°2 | 4880  | 43°9  |
| Matsushiro      | iP                | 35                   |      |            |       |       |
| Shillong        | iP                | 07 19°7              |      |            | 5490  | 49°4  |
| Vladivostok     | eP                | 24                   |      |            |       |       |
| Madras          | eP                | 52                   |      |            |       |       |
| Afiamalu        | e                 | 08 43                |      |            | 6365  | 57°3  |
| Poona           | eP                | 44                   |      |            | 6790  | 61°1  |
| New Dehli       | eP                | 51                   | eS   | 17 04      | 6910  | 62°2  |
| Yakoutsk        | iP                | 09 32 <sup>D</sup>   |      |            |       |       |
| Talgar          | eP                | 38                   |      |            |       |       |
| Semipalatinsk   | eP                | 46                   |      |            |       |       |
| Qietta          | iP                | 48°9 <sup>C</sup>    |      |            | 7890  | 71°0  |
| Garm            | eP                | 53                   |      |            |       |       |
| Tachkent        | iP                | 10 03°5 <sup>D</sup> |      |            |       |       |
| Samarkand       | P                 | 09                   |      |            |       |       |
| Tiksi           | eP                | 28                   |      |            |       |       |
| Kizyl Arvat     | iP                | 51                   |      |            |       |       |
| Chiraz          | iP                | 54°9 <sup>C</sup>    | eL   | 21 02      | 9180  | 82°6  |
| South Pole      | eP                | 55°1                 |      |            | 9235  | 83°1  |
| Sverdlovsk      | iP                | 11 03 <sup>C</sup>   |      |            |       |       |
| Téhéran         | eP                | 06                   |      |            | 9455  | 85°1  |
| Byrd            | iP                | 14°2                 |      |            | 9635  | 86°7  |
| Tarriz          | eP                | 28                   |      |            | 9945  | 89°5  |
| Goris           | eP                | 29                   | eS   | 22 11      |       |       |
| Kirovabad       | eP                | 29                   |      |            |       |       |
| Barrow          | eP                | 33°2                 |      |            | 10120 | 91°1  |
| Nairobi         | iP                | 44°2 <sup>D</sup>    |      |            | 10385 | 93°3  |
| Bangui          | (PKP)             | 16 48                |      |            | 12455 | 112°1 |
| Uinta Basin     | PKP               | 17 14°2              | ePP  | 18 13°6    | 13035 | 117°3 |
| Tonto Forest    | PKP               | 15°5                 | eSKP | 20 47°1    | 13035 | 117°3 |
| Albuquerque     | PKP               | 23                   |      |            | 13445 | 121°0 |
| Blue M.         | e                 | 27°3                 | e    | 18 13°2    | 12300 | 110°7 |
| Wichita M.      | PKP               | 29°3                 | ePP  | 19 39°6    | 14145 | 127°3 |
| Tamanrasset     | PKP               | 30                   |      |            | 13845 | 124°6 |
| Dugway          | e                 | 35°4                 |      |            | 12765 | 114°9 |
| Lanslevillard   | ePKIKP            | 37                   | ei   | 35         |       |       |
| Cumberland Pl   | PKP               | 51°6                 |      |            | 15165 | 136°5 |
| Lamto           | PKP               | 51°7                 |      |            | 15065 | 135°6 |
| M'Bour          | iPKP <sub>1</sub> | 18 14                |      |            |       |       |
| Arequipa        | PKP               | 17°2                 |      |            | 16480 | 148°3 |
| La Paz          | PKP               | 18°3                 | e    | 18 59      | 16710 | 150°4 |
| Huancayo        | PKP               | 19                   |      |            | 16480 | 148°3 |
| Quito           | ePKP              | 23                   | e    | 19 11      |       |       |
| Penas           | iPKP              | 23°2                 |      |            |       |       |
| Cochabamba      | iPKP              | 23°7                 |      |            |       |       |

inscrit à Rabat.

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VII. 31 janvier  
Lofoten. ouest de la cote de Norvège

H = 03<sup>h</sup>17<sup>mn</sup>41<sup>s</sup> (Uppsala)

|            |     |            |     |            |
|------------|-----|------------|-----|------------|
| Kiruna     | 1P  | 03 18 31.9 | 1SG | 03 19 03.4 |
| Sodankylae | eSG | 20 16      |     |            |
| Umeå       | 1SG | 16.2       |     |            |

VIII. 31 janvier  
Région de Lusaka (Zambie)

10° 45' 23° 3E

H = 04<sup>h</sup>06<sup>mn</sup>52<sup>s</sup>

M = 2.2 (Bulawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Broken Hill | 1P  | 04 07 10 | 1S  | 04 07 22 |
| Karoi       | ePn | 23       | 1SG | 50       |
| Bulawayo    | eSG | 09 21    |     |          |
| Chileka     | eSG | 10 12    |     |          |

IX. 31 janvier  
données insuffisantes

|             |    |          |
|-------------|----|----------|
| Kevo        | eP | 94 47 25 |
| Sodankylae  | eP | 22       |
| Kajaani     | 1P | 39.5     |
| Oulu        | eP | 40       |
| Nurmijaervi | eP | 55       |

X. 31 janvier  
Iles Kouriles

43° 5N, 147° 6E, h = 33km.  
43° 6N, 147° 7E

H = 04<sup>h</sup>55<sup>mn</sup>44<sup>s</sup> (CGS)

H = 04<sup>h</sup>55<sup>mn</sup>44<sup>s</sup> (URSS)

M = 5.7 (Mt Tsukuba), 5.3 (Nurmijaervi), 5.1 (Kajaani), 4.6 (CGS),  
4.5 (Eureka), 4.4 (Uinta Basin), 4.3 (Wichita M), 3.9 (Blue M,  
Dugway, Tonto Forest).

|                   |    |           |    |            |           |
|-------------------|----|-----------|----|------------|-----------|
| Youjno Sakhalinsk | 1P | 04 56 59D |    | 544        | 4.9       |
| Mt Tsukuba        | 1P | 57 52.3   |    | 1035       | 9.3       |
| Dodaira           | eP | 58 02     | eS | 04 59 44.7 | 1100 9.9  |
| Matsushiro        | 1P | 04.9      | eS | 48         |           |
| Kiyosumi          | eP | 08.2      |    | 1120       | 10.1      |
| Vladivostok       | eP | 30        | e  | 05 03 37   | 1280 11.5 |
| Yakoutsk          | eP | 05 00 28  |    | 2370       | 21.3      |
| Bodajbo           | 1P | 01 07.5   |    | 2810       | 25.3      |
| Oulan Bator       | 1P | 39        |    |            |           |
| Barrow            | eP | 03 05.2   |    | 4280       | 36.5      |
| Palmer            | eP | 21.9      |    | 4510       | 40.6      |
| Pedro Dome        | eP | 27.6      |    | 4580       | 41.2      |
| Gilmore Creek     | eP | 27.7      |    | 4580       | 41.2      |
| Black Rapids      | eP | 34        |    | 4665       | 42.0      |
| Semipalatinsk     | eP | 58.2      |    | 5010       | 45.1      |
| Mould Bay         | eP | 04 28     |    | 5435       | 46.9      |

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|                  |      |          |                   |      |      |
|------------------|------|----------|-------------------|------|------|
| Talgar           | eP   | 05 04 35 |                   | 5530 | 49°8 |
| Godhavn          | eP   | 42       |                   |      |      |
| Garm             | eP   | 05 23    |                   | 6270 | 56°4 |
| Kevo             | eP   | 42       |                   | 6555 | 59°0 |
| Sodankylae       | eP   | 53       |                   | 6755 | 60°8 |
| Edmonton         | eP   | 58       |                   | 6810 | 61°3 |
| Newport          | eP   | 06 03    |                   | 6910 | 62°2 |
| Nordman          | eP   | 03       |                   | 6900 | 62°1 |
| Oulu             | iP   | 06°7     |                   |      |      |
| Kajaani          | iP   | 07°3     |                   | 6980 | 62°8 |
| Blue M.          | eP   | 19°5     |                   | 7120 | 64°1 |
| Umeå             | iP   | 22°7     |                   |      |      |
| Nurmijaervi      | iP   | 30°9     |                   | 7380 | 66°4 |
| Moskwa           | eP   | (06) 31  |                   | 7200 | 64°8 |
| Bureka           | iP   | 43°5     |                   | 7580 | 68°2 |
| Uppsala          | iP   | 47°5C    |                   | 7680 | 69°1 |
| Frobisher        | eP   | 48°8C    |                   | 7700 | 69°3 |
| Dugway           | eP   | 52       |                   | 7735 | 69°8 |
| Lillehammer      | iP   | 54       |                   | 7780 | 70°0 |
| Kirovabad        | eP   | 58       |                   | 7810 | 70°3 |
| Goris            | eP   | 07 01    |                   | 7900 | 71°1 |
| Uinta Basin      | eP   | 02°8     | e(PCP) 05 07 18°7 | 7935 | 71°4 |
| Bakouriani       | iP   | 03°4     |                   | 7910 | 71°2 |
| Tonto Forest     | eP   | 20°8     | e(PCP) 36°2       | 8265 | 74°4 |
| Krakow           | eP   | 31°7     |                   |      |      |
| Oujgorod         | iP   | 32       |                   | 8490 | 76°4 |
| Niedzica         | eIP  | 34°1     |                   |      |      |
| Collm            | eP   | 38       |                   | 8620 | 77°6 |
| Pruhonice        | eP   | 43       |                   | 8690 | 78°2 |
| Moxa             | eP   | 44°5     |                   | 8745 | 78°7 |
| Kasperské Hory   | P    | 49       |                   | 8810 | 79°3 |
| Erlangen         | eP   | 50°4C    | ePCP 08 03°4      |      |      |
| Wichita M.       | eP   | 54°4     |                   | 9055 | 81°5 |
| Sommée Lormes    | eP   | 08 13°3  |                   | 9345 | 84°1 |
| Les Buteaux      | eP   | 14°3     |                   |      |      |
| St Saulge        | eP   | 14°8     |                   |      |      |
| Roselend         | eP   | 16°7     | ei 28°8           |      |      |
| Lanslevillard    | eP   | 18       | ei 29°5           |      |      |
| Toulx Ste Croix  | eP   | 20°8     |                   |      |      |
| St Paul en Foret | eP   | 25°2     |                   |      |      |
| Lorgues          | eP   | 26°5     |                   |      |      |
| La Mourre        | eP   | 26°7     |                   |      |      |
| La Paz           | ePKP | 15 12    |                   |      |      |
| Penas            | ePKP | 12°8     |                   |      |      |

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|              |    |          |             |  |  |
|--------------|----|----------|-------------|--|--|
| Goroka       | eP | 05 31 31 |             |  |  |
| Port Moresby | eP | 33       | es 05 32 11 |  |  |
| Esa'Ala      | iP | 48       | is 37°5     |  |  |
| Rabaul       | eP | 32 04°5D |             |  |  |
| Tabele       | eP | 51       |             |  |  |

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Iles Kouriles

43° 5'N, 146° 6'E, h = 33 km. H = 06h21mn46s (CGS)

M = 5.0 (Mt Tsukuba, Kajaani), 4.5 (CGS), 4.1 (Uinta Basin), 3.8 (Tonto Forest).

|               |      |            |                 |           |
|---------------|------|------------|-----------------|-----------|
| Mt Tsukuba    | eP   | 06 23 50.7 | 980             | 8.8       |
| Dodaira       | eP   | 58.6       | 1045            | 9.4       |
| Matsushiro    | P    | 24 02      |                 |           |
| Gilmore Creek | eP   | 29 33.3    | 4635            | 41.7      |
| Resolute      | eP   | 31 17.1D   | 6155            | 55.4      |
| Goldstone     | eP   | 24         |                 |           |
| Sodankylae    | eP   | 55         | 6735            | 60.6      |
| Kiruna        | iP   | 32 03.5    |                 |           |
| Oulu          | iP   | 07         |                 |           |
| Kajaani       | iP   | 08.2       | 6945            | 62.5      |
| Umea          | iP   | 23.5       |                 |           |
| Nurmijaervi   | iP   | 31.6       | 7345            | 66.1      |
| Lillehammer   | P    | 54.4       |                 |           |
| Uinta Basin   | ePCP | 33 17.7    | 8000            | 72.0      |
| Tonto Forest  | eP   | 26         | ePCP 06 33 37.5 | 8345 75.1 |

inscrit à Wichita M.

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H = 07h46mn50s (Rabaul)

|              |    |            |      |          |
|--------------|----|------------|------|----------|
| Keravat      | eP | 07 47 28 - | 1(S) | 07 47 53 |
| Rabaul       | eP | 28.5       |      |          |
| Port Moresby | eP | 48 44      |      |          |
| Warramunga   | eP | 51 54      |      |          |

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Mer Egée

39° 0'N, 24° 1/4'E

H = 08h31mn17s

M = 3.1 (Athènes)

|           |      |             |      |            |       |     |
|-----------|------|-------------|------|------------|-------|-----|
| Athènes   | eIPg | 08 31 37.7C | 1SG  | 08 31 53.6 | 115   | 1.0 |
| Paraskevi | ePn  | 47          | eISb | 32 10.6    | 1.5   | 1.7 |
| Valsamata | ePn  | 32 07.9     |      |            | (340) | 3.1 |

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Océan Atlantique Sud

60° 0'S, 18° 3'W, h = 32 km.

H = 09h00mn30s (CGS)

M = 6.9 (La Paz), 5.0 (CGS, Bangui)

|                |    |            |              |           |
|----------------|----|------------|--------------|-----------|
| South Pole     | iP | 09 06 38.4 | 3345         | 30.1      |
| Byrd           | iP | 07 07.3    | 3710         | 33.4      |
| Peldehue       | eP | 08 25.6    | 4810         | 43.3      |
| Changalane     | eP | 09 10      |              |           |
| Sa da Bandeira | iP | 29.5       | 5635         | 50.7      |
| Bulawayo       | eP | 37         | 5755         | 51.8      |
| Karoi          | eP | 10 00      | 1SP 09 10 09 | 6120 55.1 |

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|               |     |            |   |          |       |       |
|---------------|-----|------------|---|----------|-------|-------|
| La Paz        | eP  | 09 10 07°9 | S | 09 18 00 | 6255  | 56°3  |
| Penas         | eP  | 11°6       | S | 07       |       |       |
| Brokenhill    | eP  | 12         |   |          | 6310  | 56°8  |
| Arequipa      | eP  | 18°6       |   |          | 6435  | 57°9  |
| Bangui        | iP  | 14 43      |   |          | 7820  | 70°4  |
| Nairobi       | eP  | 12 07      |   |          | 8020  | 72°2  |
| Tamanrasset   | eP  | 13 05      |   |          | 9420  | 84°8  |
| Tonto Forest  | PKP | 19 18°2    |   |          | 13390 | 120°5 |
| Uinta Basin   | PKP | 26°3       |   |          | 13335 | 124°5 |
| Dugway        | PKP | 23°8       |   |          | 13990 | 125°9 |
| Jamestown     | PKP | 34°1D      |   |          | 14200 | 127°8 |
| Priest        | PKP | 35°0D      |   |          | 14055 | 123°5 |
| Blue M.       | PKP | 39°8       |   |          | 14620 | 131°6 |
| Coppermine    | PKP | 20 03      |   |          | 16155 | 145°4 |
| Mould Bay     | PKP | 15         |   |          | 16620 | 149°6 |
| Palmer        | PKP | 47°6       |   |          | 17380 | 156°4 |
| Gilmore Creek | PKP | 49°6       |   |          | 17400 | 156°6 |

inscrit à Hermanus, Addis Ababa, Toledo, Strasbourg,  
Uinta Basin, Wichita M.

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Iles Santa Cruz

Vers 12°0S, 165° 3/4E

H = 09h04<sup>mn</sup>19<sup>s</sup>  
M = 4°6 (Nouméa)

|            |     |             |    |          |  |  |
|------------|-----|-------------|----|----------|--|--|
| Luganville | iP  | 09 05 09°2D | iS | 09 05 45 |  |  |
| Port Vila  | eIP | 48°5        | iS | 06 57°5  |  |  |
| Koumac     | iP  | 06 19°3(C)  |    |          |  |  |
| Nouméa     | iP  | 49°5C       | iS | 08 46°5  |  |  |

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Nouvelles Hébrides (île Tanna)

19°5S, 168°9E

H = 09h10<sup>mn</sup>24<sup>s</sup>  
M = 3°4 (Nouméa)

|           |     |          |    |          |  |  |
|-----------|-----|----------|----|----------|--|--|
| Port Vila | eIP | 09 10 53 | iS | 09 11 16 |  |  |
| Nouméa    | iP  | 11 19°9D | iS | 12 02°5  |  |  |
| Koumac    | eIP | 31°5     | iS | 21°5     |  |  |

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Au large de la cote de Guerrero (Mexique)

17°01'N, 101°11'W

H = 10h24<sup>mn</sup>27<sup>s</sup> (Tacubaya)

|                 |    |          |    |          |     |     |
|-----------------|----|----------|----|----------|-----|-----|
| Tacubaya        | iP | 10 25 20 | eS | 10 25 59 | 340 | 3°1 |
| Nat.Univ.Mexico | iP | 20       | iS | 50       | 343 | 3°1 |
| Léon            | iP | 33       | iS | 26 25    | 470 | 4°2 |
| Vista Hermosa   | iP | 36       |    |          | 480 | 4°3 |
| Presa Benito J. | iP | 54°1C    |    |          | 625 | 5°6 |
| Vera Cruz       | e  | 26 21    |    |          | 595 | 5°4 |



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Mer de Bali

6° 5S, 115° 8E. h = 484 km. H = 11h 13<sup>mn</sup> 29<sup>s</sup> (CGS)

|                 |         |          |   |             |        |
|-----------------|---------|----------|---|-------------|--------|
| Warramunga      | eP      | 11 17 52 |   |             |        |
| Charters Towers | eP      | 19 21    |   | 2490        | 22° 4  |
| Adelaide        | eP      | 47       |   | 36 10       | 32° 5  |
| Brisbane        | iP      | 20 29    | 1 |             |        |
| Canberra        | iP      | 37° 3C   |   | 11 21 42° 2 |        |
| Dodaira         | eP      | 21 23    |   | 4535        | 40° 8  |
| Mt Tsukuba      | eP      | 25° 8    |   | 4655        | 41° 9  |
| Changalane      | iP      | 24 58    |   | 5290        | 47° 6  |
| South Pole      | eP      | 25 05° 2 |   | 5355        | 48° 2  |
| Karoi           | eP      | 12       |   | 9280        | 83° 5  |
| Bulawayo        | eP      | 16       |   | 9390        | 84° 5  |
| Byrd            | eP      | 34° 2    |   | 9465        | 85° 2  |
| Blue M.         | PKP     | 31 25    |   | 9920        | 89° 3  |
| Dugway          | PKP     | 36° 4    |   | 13355       | 220° 2 |
| Uinta Basin     | PKP     | 40° 4    |   | 13900       | 125° 1 |
| Tonto Forest    | PKP     | 43° 6    |   | 14145       | 127° 3 |
| Albuquerque     | PKP     | 48       |   | 14290       | 128° 6 |
| Wichita M.      | PKP     | 53       |   | 14655       | 131° 9 |
| Cumberland Pl   | PKP     | 32 11° 7 |   | 15300       | 137° 7 |
| Oak Ridge       | PKP     | 14° 8    |   | 16110       | 145° 0 |
| Vista Hermosa   | i (PKP) | 19       |   | 16155       | 145° 4 |
| Presa Benito J. | ePKP    | 20° 9    |   |             |        |
| La Paz          | PKP     | 35       |   |             |        |
|                 |         |          |   | 17420       | 156° 8 |

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Région de la Nouvelle Bretagne

H = 11h 16<sup>mn</sup> 47<sup>s</sup> M = 5° 1 (Rabaul)

|                 |    |              |    |          |  |
|-----------------|----|--------------|----|----------|--|
| Rabalanakaia    | iP | 11 17 33° 6D |    |          |  |
| Wanl iss Street | iP | 34D          |    |          |  |
| Rabaul          | iP | 34° 3D       | iS | 11 18 10 |  |
| Keravat         | iP | 36           | iS | 13       |  |
| Honiara         | iP | 18 28D       | iS | 19 42° 5 |  |

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Tibet

29° 9N, 92° 1E. h = 18 km. H = 11h 45<sup>mn</sup> 16° 9S (CGS)

29° 2N, 92° 5E. h = 18 km. H = 11h 45<sup>mn</sup> 11S (URSS)

Vers 30° 0N, 92° 0E H = 11h 45<sup>mn</sup> 15S (Shillong)

M = 5° 9 (Uppsala, Kiruna, Bangui), 5° 8 (Port Moresby), 5° 5 (URSS),  
5° 2 (CGS), Poona, Kajaani, Nairobi), 5° 1 (Addis Ababa), 4° 9 (Mt  
Tsukuba, Kevo, Nurmi, aervi, Gilmore Creek, Palmer).

|            |     |             |   |          |          |
|------------|-----|-------------|---|----------|----------|
| Shillong   | iP  | 11 46 22° 8 |   |          |          |
| Chitra     | iPn | 46° 1       | S | 11 48 12 | 480 4° 3 |
| Chittagong | eP  | 47 08       |   |          | 590 5° 3 |
|            |     |             |   |          | 835 7° 5 |

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|                 |    |                    |     |          |      |      |
|-----------------|----|--------------------|-----|----------|------|------|
| Bokaro          | iP | 11 47 19           | 1S  | 11 48 50 | 910  | 8°2  |
| Calcutta        | iP | 23                 | 1S  | 49       | 890  | 8°0  |
| Dehra Dun       | eP | 48 13              | eS  | 50 32    | 1355 | 12°2 |
| New Dehli       | eP | 23                 | eS  | 49       | 1445 | 13°0 |
| Bhakra          | eP | 34                 | e   | 51 01    | 1510 | 13°6 |
| Vi shakhapatnam | eP | 42                 | eS  | 20       | 1610 | 14°5 |
| Warsak          | P  | 49 28              |     |          | 2005 | 18°0 |
| Talgar          | iP | 30 <sup>D</sup>    | eS  | 52 57    | 1970 | 17°8 |
| Khcrog          | eP | 40 <sup>C</sup>    |     |          | 2075 | 18°7 |
| Frounze         | eP | 44                 |     |          | 2115 | 19°1 |
| Poona           | eP | 52°5               |     |          | 2235 | 20°1 |
| Madras          | eP | 53                 | eS  | 53 29    | 2235 | 20°1 |
| Koulyab         | iP | 54                 | eS  | 42°8     | 2240 | 20°2 |
| Garm            | eP | 58°7               | eS  | 40°7     | 2230 | 20°1 |
| Bombay          | eP | 59                 | eS  | 50       | 2240 | 20°6 |
| Douchambé       | iP | 50 04 <sup>D</sup> | 1S  | 54 06    | 2345 | 21°1 |
| Oulan Bator     | iP | 05                 | S   | 53 59    | 2365 | 21°3 |
| Tachkent        | iP | 11 <sup>C</sup>    |     |          | 2410 | 21°7 |
| Quetta          | eP | 11°8 <sup>D</sup>  | eS  | 54 15°2  | 2410 | 21°7 |
| Goa             | eP | 12                 | e   | 23       | 2455 | 22°1 |
| Semipalatinsk   | eP | 16                 |     |          | 2480 | 22°3 |
| Samarkand       | P  | 22                 |     |          | 2525 | 22°7 |
| Karachi         | eP | 26°6               |     |          | 2535 | 22°8 |
| Kodalkanal      | iP | 32                 |     |          | 2650 | 23°9 |
| Mashad          | eP | 51 14°5            |     |          | 3100 | 27°9 |
| Vannovskaya     | P  | 21                 |     |          | 3245 | 29°2 |
| Bodajbo         | iP | 42                 |     |          | 3540 | 31°9 |
| Chiraz          | eP | 52 04              |     |          | 3765 | 33°9 |
| Sverdlovsk      | P  | 10 <sup>D</sup>    |     |          | 3860 | 34°8 |
| Goris           | eP | 40                 |     |          | 4275 | 38°5 |
| Matsushiro      | eP | 44                 |     |          | 4315 | 38°8 |
| Tabriz          | iP | 47°3               | 1PP | 54 20    | 4280 | 38°5 |
| Port Blair      | 1S | 52                 |     |          | 2015 | 18°2 |
| Dodaira         | eP | 53°7               |     |          | 4410 | 39°7 |
| Yakoutsk        | iP | 54 <sup>D</sup>    |     |          | 4485 | 40°4 |
| Mt. Tsukuba     | eP | 56°8               |     |          | 4490 | 40°4 |
| Bakouriani      | iP | 53 00°4            | 1sP | 53 12    | 4515 | 40°6 |
| Moskva          | eP | 42                 | esP | 49       | 5115 | 46°0 |
| Tiksi           | iP | 42 <sup>D</sup>    |     |          | 5145 | 46°3 |
| Poulkovo        | eP | 54 16              | 1sP | 54 23    | 5615 | 50°5 |
| Apatity         | eP | 19 <sup>D</sup>    |     |          | 5655 | 50°9 |
| Kichinev        | eP | 19                 |     |          | 5665 | 51°0 |
| Kajaani         | iP | 28°6               | 1   | 34°4     | 5820 | 52°4 |
| Vrincioaia      | P  | 33 <sup>D</sup>    |     |          | 5840 | 52°6 |
| Kheis           | eP | 34                 |     |          | 5845 | 52°6 |
| Oulu            | iP | 37°2               |     |          | 5920 | 53°3 |
| Sodankyla       | eP | 38                 |     |          | 5935 | 53°4 |
| NurmiJaerwi     | iP | 38°7               | 1   | 44°2     | 5935 | 53°4 |
| Kevo            | iP | 40°1               |     |          | 5965 | 53°7 |
| Addis_Ababa     | eP | 48                 |     |          | 5980 | 53°8 |

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|                   |     |                   |     |          |      |      |
|-------------------|-----|-------------------|-----|----------|------|------|
| Oujgorod          | eP  | 11 54 51          | 1sP | 11 54 57 | 6140 | 55°2 |
| Uméa              | iP  | 53°7              |     |          | 6180 | 55°6 |
| Kiruna            | iP  | 54°8              |     |          | 6195 | 55°8 |
| Niedzica          | eiP | 55 00°7           |     |          | 6270 | 56°4 |
| Uppsala           | iP  | 03°3 <sup>C</sup> | i   | 55 08°6  | 6335 | 57°0 |
| Karlskrona        | ipP | 17°3              |     |          | 6485 | 58°4 |
| Skalstugan        | iP  | 19                |     |          | 6575 | 59°2 |
| Trivandrum        | eS  | 25                |     |          | 2845 | 25°6 |
| Wien              | eP  | 25                |     |          | 6580 | 59°2 |
| Pruhonice         | P   | 25                |     |          | 6665 | 60°0 |
| Lillehammer       | eP  | 25°1 <sup>C</sup> |     |          | 6690 | 60°2 |
| Göteborg          | DP  | 29°8              |     |          | 6680 | 60°1 |
| Ljubljana         | eP  | 30                | ePP | 57 43    | 6770 | 60°9 |
| Kasperské Hory    | P   | 30                |     |          | 6755 | 60°8 |
| Nairobi           | eP  | 33                |     |          | 6790 | 61°1 |
| Trieste           | eP  | 34 <sup>D</sup>   | e   | 56       | 6835 | 61°5 |
| Collm             | eP  | 34 <sup>D</sup>   |     |          | 6745 | 60°7 |
| Moxa              | eP  | 35                |     |          | 6855 | 61°7 |
| Kongsberg         | iP  | 36°7              |     |          | 6780 | 61°0 |
| Fürstenfeldbruck  | eP  | 42                |     |          | 6945 | 62°5 |
| Erlangen          | eP  | 45 <sup>C</sup>   |     |          | 6910 | 62°2 |
| Warramunga        | eP  | 54°5              |     |          | 7120 | 64°1 |
| Welschbruch       | eP  | 57°6              | e   | 58 02    | 7220 | 65°0 |
| Champ du Feu      | eP  | 58°2              |     |          | 7225 | 65°0 |
| Mundaring         | iP  | 59°7              |     |          | 7295 | 65°7 |
| Haudompré         | eP  | 56 03             |     |          | 7305 | 65°8 |
| Port Moresby      | eP  | 05°9              |     |          | 7310 | 65°8 |
| Lanslevillard     | eP  | 06                | ei  | 11°6     | 7360 | 66°3 |
| Roselend          | eP  | 06°5              | ei  | 12°2     | 7370 | 66°3 |
| Isola             | iP  | 13°3              |     |          | 7390 | 66°5 |
| Vouglans          | eiP | 14°1              | ei  | 18       | 7415 | 66°7 |
| St. Paul en Foret | eP  | 15°7              |     |          | 7440 | 67°0 |
| Monteynard        | eP  | 16                |     |          | 7465 | 67°2 |
| La Mourre         | eP  | 16°9              |     |          | 7465 | 67°2 |
| Lorgues           | eP  | 17°6              |     |          | 7470 | 67°2 |
| Sommée Lormes     | eP  | 18°8              |     |          | 7510 | 67°6 |
| Les Buteaux       | eP  | 19°2              |     |          | 7510 | 67°6 |
| Barrow            | eP  | 19°7              |     |          | 7600 | 68°4 |
| St. Saulge        | eP  | 21°2              |     |          | 7545 | 67°9 |
| Garchy            | iP  | 22°8 <sup>D</sup> |     |          | 7565 | 68°1 |
| Toulx Ste Croix   | eP  | 28°7              |     |          | 7665 | 69°0 |
| Clermont          | eP  | 30                | e   | 50°5     | 7625 | 68°6 |
| Chileka           | eP  | 37                | esP | 42       | 7910 | 71°2 |
| Charters Towers   | iP  | 40                |     |          | 8000 | 72°0 |
| Mould Bay         | eP  | 42°9 <sup>D</sup> |     |          | 8035 | 72°3 |
| Bangui            | iP  | 50 <sup>C</sup>   |     |          | 8165 | 73°5 |
| Sparrevohn        | eP  | 54                |     |          | 8245 | 74°2 |
| Gilmore Creek     | eP  | 57°7              |     |          | 8320 | 74°9 |
| Pedro Dome        | eP  | 57°8              |     |          | 8310 | 74°8 |
| Broken Hill       | eP  | 57 01             | esP | 57 06    | 8380 | 75°4 |
| Resolute          | eP  | 02                |     |          | 8400 | 75°6 |

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|                 |       |                 |     |          |       |       |
|-----------------|-------|-----------------|-----|----------|-------|-------|
| Karoi           | eP    | 11 57 03        | 1sP | 11 57 09 | 8445  | 76°0  |
| Black Rapids    | eP    | 05°9            |     |          | 8490  | 76°4  |
| Tamanrasset     | eP    | 06              |     |          | 8465  | 76°2  |
| Palmer          | eP    | 06°1            |     |          | 8490  | 76°4  |
| Toledo          | 1P    | 10              | LR  | 12 30 30 | 8425  | 75°8  |
| Mts Sheep Creek | eP    | 10°4            |     |          | 8545  | 76°9  |
| Bulawayo        | eP    | 19              | 1sP | 11 57 25 | 8745  | 78°7  |
| Changalane      | eP    | 32°5            |     |          | 8895  | 80°1  |
| Brisbane        | eP    | 34°5            |     |          | 9035  | 81°3  |
| Canberra        | eP    | 48              |     |          | 9345  | 84°1  |
| Frobisher       | eP    | 54 <sup>D</sup> |     |          | 9500  | 85°5  |
| Lamto           | P     | 58 31°8         |     |          | 10345 | 93°1  |
| Ifrane          | ePP   | 12 00 34        |     |          | 8840  | 79°6  |
| Dugway          | (PKP) | 03 41°7         |     |          | 11845 | 106°6 |
| Tonto Forest    | PKP   | 54°9            |     |          | 12500 | 112°5 |
| Wichita M.      | PKP   | 55°7            |     |          | 12780 | 115°0 |
| South Pole      | PKP   | 04 09°2         |     |          | 13300 | 119°7 |
| La Paz          | ePKP  | 05 13           |     |          | 17500 | 157°5 |
| Penas           | ePKP  | 17°8            |     |          | 17510 | 157°6 |

inscrit à l'Aquila - Messina - Porto - Uinta Basin.

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Turquie.

Vers 40° 1/2 N ; 30° 3/4 E ; H = 13<sup>h</sup>.09<sup>mn</sup>58<sup>s</sup>. (Athènes)

|           |       |            |      |            |       |     |
|-----------|-------|------------|------|------------|-------|-----|
| Paraskevi | ePn   | 13 10 55.2 | e1Sg | 13 11 55.4 | 390   | 3°5 |
| Rhodes    | e(Pb) | 11 13.8    | eSn  | 12 01.3    | (510) | 4°6 |

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Mer de Banda.

4° 3 S ; 128° 6 E ; h = 33<sup>km</sup> ; H = 13<sup>h</sup>.29<sup>mn</sup>24<sup>s</sup>. (CGS)  
 2° 3 S ; 128° 4 E ; H = 13<sup>h</sup>.29<sup>mn</sup>34<sup>s</sup>. (URSS)

M. = 5.7(Rabaul) ; 5.3(CGS) ; 4.9(Port Moresby).

|                 |      |                 |      |          |      |      |
|-----------------|------|-----------------|------|----------|------|------|
| Warramunga      | eP   | 13 33 13        |      |          | 1835 | 16°5 |
| Port Moresby    | 1P   | 46°9            |      |          | 2120 | 19°1 |
| Baguio          | eP   | 34 18           | 1S   | 13 38 23 | 2455 | 22°1 |
| Esa'Ala         | 1(P) | 25              |      |          |      |      |
| Keravat         | eP   | 30 <sup>D</sup> |      |          | 3590 | 23°3 |
| Rabaul          | 1P   | 32 <sup>C</sup> |      |          | 2610 | 23°5 |
| Charters Towers | 1P   | 32              | eS   | 40       | 2580 | 23°2 |
| Brisbane        | eP   | 35 54           | e(S) | 42 42    | 3610 | 32°5 |
| Adélaïde        | eP   | 38 01           |      |          |      |      |
| Canberra        | eP   | 41              |      |          | 4010 | 36°1 |
| Matsushiro      | P    | 37 11           |      |          |      |      |
| Shillong        | 1P   | 49°9            |      |          | 5155 | 46°4 |

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|              |     |                    |   |       |       |
|--------------|-----|--------------------|---|-------|-------|
| Poona        | eP  | 13 39 02           |   |       |       |
| New Dehli    | eP  | 24                 |   |       |       |
| Bodajbo      | 1P  | 43                 |   |       |       |
| Yakoutsk     | eP  | 40 09              |   |       |       |
| Talgar       | eP  | 11                 |   |       |       |
| Quetta       | eP  | 23 <sup>6C</sup>   | 7580                                    | 68°2  |       |
| Garm         | eP  | 27                 |   |       |       |
| Tiksi        | eP  | 41 07              |   |       |       |
| Vannovskaya  | eP  | 24                 |   |       |       |
| Chiraz       | eP  | 33                 | 8880                                    | 79°9  |       |
| Sverdlovsk   | eP  | 43 <sup>D</sup>    |   |       |       |
| South Pole   | eP  | 42 07 <sup>6</sup> | 9520                                    | 85°7  |       |
| Goris        | eP  | 09                 |   |       |       |
| Kirovabad    | eP  | 12                 |   |       |       |
| Bakouriani   | eP  | 21                 |   |       |       |
| Byrd         | eP  | 21                 | 9945                                    | 89°5  |       |
| Uinta Basin  | PKP | 48 11 <sup>7</sup> | 12965                                   | 116°7 |       |
| Tonto Forest | PKP | 19 <sup>5</sup>    | 13010                                   | 117°1 |       |
| Huancayo     | PKP | 49 19              | 16800                                   | 151°2 |       |
| La Paz       | PKP | 19                 | ePKP <sub>1</sub> 13 49 40 <sup>5</sup> | 17055 | 153°5 |
| Penas        | PKP | 22 <sup>6</sup>    | ePKP <sub>2</sub> 33                    | 17055 | 153°5 |

Inscrit à Porto.

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Près de la cote du Pérou.

16°3 S ; 73°8 W ; h = 62<sup>km</sup> ; H = 14<sup>h</sup>.11<sup>mn</sup>35.9<sup>s</sup>. (CGS)

M. = 4.5(La Paz) ; 4.2(Tonto Forest) ; 3.9(CGS) ; 3.8(Dugway - Blue M.) ;  
3.5(Penas)

|              |    |            |    |            |            |      |
|--------------|----|------------|----|------------|------------|------|
| Arequipa     | 1P | 14 12 10.4 | 1S | 14 12 37.4 | <b>255</b> | 2°3  |
| Huancayo     | eP | 44         | 1S | 13 47      | 500        | 4°5  |
| Penas        | eP | 54.6       |    |            | 580        | 5°2  |
| La Paz       | eP | 13 01      | eS | 14 06.5    | 610        | 5°5  |
| Antofagasta  | eP | 25         | eS | 46         |            |      |
| Tonto Forest | eP | 21 49.6    |    |            | 6855       | 61°7 |
| Dugway       | eP | 22 24      |    |            | 7435       | 66°9 |
| Oroville     | eP | 50.7       |    |            | 7910       | 71°2 |
| Lamto        | P  | 51.7       |    |            | 7955       | 71°6 |
| Blue M.      | eP | 58.1       |    |            | 8065       | 72°6 |
| South Pole   | eP | 23 05.5    |    |            | 8200       | 73°8 |
| Edmonton     | eP | 24         |    |            | 8580       | 77°2 |
| Tamanrasset  | eP | 24 17      |    |            | 9645       | 86°8 |

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Région de la Nouvelle Bretagne

H = 14<sup>h</sup>.21<sup>mn</sup>32<sup>s</sup>. ; M. = 4.3(Rabaul)

Rabalanakaia 1P 14 21 52.2

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|                |    |            |    |          |
|----------------|----|------------|----|----------|
| Wanliss Street | 1P | 14 21 52°5 |    |          |
| Sulphur Creek  | 1P | 52°5       |    |          |
| Rabaul         | 1P | 53         | 1B | 14 22 09 |
| Keravat        | eP | 54         |    |          |

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Witwatersrand.

28°2 S ; 28°2 E ; H = 15<sup>h</sup>.00<sup>mn</sup>05<sup>s</sup>. (Bulawayo) M = 3.6

|            |     |          |     |            |
|------------|-----|----------|-----|------------|
| Changalane | ePn | 15 01 01 | eSn | 15 01 42°5 |
| Bulawayo   | ePn | 34       | eSg | 03 08      |
| Karoi      | ePn | 02 21    | 1Sg | 04 51      |
| Chileka    | eSg | 06 19    |     |            |

Inscrit à Broken Hill.

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Nevada. (Explosion)

M. = 4.3 (Berkeley)

|              |    |                         |   |          |
|--------------|----|-------------------------|---|----------|
| Jamestown    | eP | 15 30 58.2 <sup>C</sup> | 1 | 15 31 10 |
| Priest       | eP | 31 02.5 <sup>C</sup>    |   |          |
| Mt. Hamilton | eP | 09.2 <sup>C</sup>       | e | 18       |
| Mineral      | eP | 25.9 <sup>C</sup>       | 1 | 30 48    |
| Berkeley     | eP | 30.6                    | e | 32 46    |

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Iles Kouriles.

43°1 N ; 146°7 E ; h = 33<sup>km</sup> ; H = 16<sup>h</sup>.19<sup>mn</sup>28<sup>s</sup>. (CGS)  
 42°48' N ; 147°42' E ; h = 60<sup>km</sup> ; H = 16<sup>h</sup>.19<sup>mn</sup>19.5<sup>s</sup>. (JMA)  
 43°9 N ; 146°7 E ; H = 16<sup>h</sup>.19<sup>mn</sup>32<sup>s</sup>. (URSS)

M. = 5.1 (Nurmijaerwi) ; 5.0 (Mt. Tsukuba - Kajaani) ; 4.5 (CGS - Eureka) ;  
 4.4 (Dugway - Uinta Basin) ; 4.3 (Wichita M.) ; 4.2 (Blue M.) ;  
 3.9 (Tonto Forest).

|             |    |            |    |            |          |
|-------------|----|------------|----|------------|----------|
| Nemuro      | 1P | 16 19 47.1 | 1S | 16 20 05.0 |          |
| Abashiri    | eP | 20 04      | S  | 31.6       |          |
| Mt. Tsukuba | 1P | 21 25.8    |    |            | 945 8.5  |
| Dodaira     | eP | 34.6       |    |            | 1010 9.1 |
| Matsushiro  | 1P | 38         | S  | 23 20      |          |
| Vladivostok | eP | 22 06      |    |            |          |
| Yakoutsk    | eP | 24 10      |    |            |          |
| Bodajbo     | eP | 49         |    |            |          |

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|                |     |                   |                 |      |      |
|----------------|-----|-------------------|-----------------|------|------|
| Barrow         | eP  | 16 26 53.7        |                 | 4365 | 39.3 |
| Palmer         | eP  | 27 14.1           |                 | 4600 | 41.4 |
| College        | eP  | 16.5              |                 | 4645 | 41.8 |
| Pedro Dome     | eP  | 17.5              |                 | 4665 | 42.0 |
| Black Rapids   | eP  | 23.8              |                 | 4755 | 42.8 |
| Semipalatinsk  | P   | 40.1              |                 |      |      |
| Shillong       | eP  | 28 03.2           |                 | 5300 | 47.7 |
| Talgar         | eP  | 17                |                 |      |      |
| Resolute       | eP  | 29 02.1           |                 | 6190 | 55.7 |
| New Dehli      | eP  | 10                | e 16 29 21      |      |      |
| Kevo           | eP  | 27                |                 | 6580 | 59.2 |
| Sodankylä      | eP  | 39                |                 | 6780 | 61.0 |
| Kiruna         | 1P  | 48.1              |                 |      |      |
| Kajaani        | 1P  | 51.3              |                 | 6990 | 62.9 |
| Oulu           | 1P  | 51.3              |                 |      |      |
| Quetta         | eP  | 54.9 <sup>D</sup> |                 |      |      |
| Blue M.        | 1P  | 30 06.2           |                 | 7210 | 64.9 |
| Umeå           | 1P  | 08.2              |                 |      |      |
| Nurmijaerwi    | 1P  | 15.8              |                 | 7390 | 66.5 |
| Eureka         | 1P  | 32                |                 | 7665 | 69.0 |
| Uppsala        | 1P  | 32.5              |                 | 7690 | 69.2 |
| Kirovabad      | P   | 38                |                 |      |      |
| Uddeholm       | 1P  | 39                |                 |      |      |
| Lillehammer    | 1P  | 39.4 <sup>D</sup> |                 | 7800 | 70.2 |
| Dugway         | eP  | 40.2              |                 | 7820 | 70.4 |
| Bakouriani     | 1P  | 46.3              |                 |      |      |
| Uinta Basin    | eP  | 49.4              |                 | 8020 | 72.2 |
| Tonto Forest   | eP  | 31 09.6           | e(PcP) 16 31 20 | 8355 | 75.2 |
| Niedzica       | e1P | 18.8              |                 |      |      |
| Pruhonice      | eP  | 28                |                 | 8700 | 78.3 |
| Kasperské Hory | e1P | 33                |                 | 8820 | 79.4 |
| Wichita M.     | eP  | 48.2              |                 | 9145 | 82.3 |

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Save Valley (Mozambique)

21°4 S ; 33°3 E ; H = 17h.36<sup>mm</sup>57<sup>s.</sup>; M. = 2.9(Bulawayo)

|             |     |          |     |          |
|-------------|-----|----------|-----|----------|
| Bulawayo    | ePb | 17 38 10 | eSb | 17 38 58 |
| Changalane  | ePn | 14.1     | Sn  | 39 13    |
| Karoi       | ePn | 19       | eSg | 48       |
| Chileka     | ePn | (20)     | eSg | 55       |
| Broken Hill | ePn | 56       | eSg | 41 09    |

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Région de la Nouvelle Bretagne

H = 18h.09<sup>mm</sup>23<sup>s.</sup>; M. = 4.6(Rabaul)

|         |    |                       |    |          |
|---------|----|-----------------------|----|----------|
| Keravat | 1P | 18 09 51 <sup>D</sup> | 1S | 18 10 04 |
|---------|----|-----------------------|----|----------|

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|                |    |                       |    |          |  |
|----------------|----|-----------------------|----|----------|--|
| Rabalanakaia   | 1P | 18 09 52 <sup>D</sup> |    |          |  |
| Wanliss Street | 1P | 52 <sup>D</sup>       |    |          |  |
| Sulphur Creek  | 1P | 52° 1                 |    |          |  |
| Rabaul         | 1P | 52° 4 <sup>D</sup>    | 1S | 18 10 10 |  |

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Iles aux Renards (Aléoutiennes)

51° 2 N ; 171° 4 W ; h = 33<sup>km</sup> ; H = 18<sup>h.29<sup>mn</sup></sup>29<sup>s.</sup> (CGS)

M. = 4° 9 (Newport) ; 4° 3 (Uinta Basin) ; 4° 2 (CGS - Wichita M.) ;  
4° 0 (Dugway) ; 3° 9 (Tonto Forest) ; 3° 8 (Blue M.) ;

|              |    |             |    |             |      |       |
|--------------|----|-------------|----|-------------|------|-------|
| Adak         | 1P | 18 30 19° 9 | 1S | 18 31 00° 3 | 365  | 3° 3  |
| College      | eP | 33 43° 2    |    |             | 2045 | 18° 4 |
| Newport      | eP | 36 14       |    |             | 3835 | 34° 5 |
| Blue M.      | eP | 27° 2       |    |             | 4000 | 36° 0 |
| Woody        | 1P | 37 06       |    |             | 4480 | 40° 3 |
| Dugway       | eP | 13° 2       |    |             | 4590 | 41° 3 |
| Uinta Basin  | eP | 29° 4       |    |             | 4810 | 43° 3 |
| Tonto Forest | eP | 51° 1       |    |             | 5100 | 45° 9 |
| Wichita M.   | eP | 38 46° 2    |    |             | 5955 | 53° 6 |

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Au large de Hokkaido (Japon)

45° 01' N ; 145° 52' E ; h = 50<sup>km</sup> ; H = 19<sup>h.22<sup>mn</sup></sup>13° 5<sup>s.</sup> (JMA)

M. = 4° 4 (JMA)

|            |    |             |    |             |     |      |
|------------|----|-------------|----|-------------|-----|------|
| Nemuro     | 1P | 19 22 23° 7 | 1S | 19 22 29° 4 | 41  | 0° 4 |
| Kushiro    | 1P | 33° 0       | S  | 44° 8       | 120 | 1° 1 |
| Abashiri   | 1P | 40° 2       | S  | 57° 6       | 170 | 1° 5 |
| Urakawa    | P  | 55° 1       | S  | 23 23° 4    | 271 | 2° 4 |
| Matsushiro | 1P | 24 18° 2    | X  | 25 45       | 973 | 8° 8 |

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Iles Kouriles (Réplique)

H = 20<sup>h.04<sup>mn</sup></sup>30<sup>s.</sup> (Uppsala)

|             |    |                    |  |  |  |
|-------------|----|--------------------|--|--|--|
| Sodankylä   | eP | 20 14 41           |  |  |  |
| Kajaani     | eP | 52                 |  |  |  |
| Oulu        | eP | 54                 |  |  |  |
| Umeå        | 1P | 15 10° 4           |  |  |  |
| Nurmijaerwi | 1P | 18° 3 <sup>D</sup> |  |  |  |
| Uddeholm    | 1P | 41° 7              |  |  |  |
| Lillehammer | 1P | 42° 0              |  |  |  |
| Niedzica    | eP | 16 22° 3           |  |  |  |



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Iles aux Renards (Aléoutiennes)

52°6 N ; 170°9 W ; h = 33<sup>km</sup> ; H = 20<sup>h.31<sup>mn</sup>56.8<sup>s.</sup></sup>(CGS)

M. = 5.1(Newport); 4.9(Eureka); 4.7(Uinta Basin); 4.5(CGS); 4.4(Wichita M.);  
4.3(Tonto Forest - Dugway); 4.2(Blue M.); 4.0(Collegé).

|                 |    |            |    |            |      |      |
|-----------------|----|------------|----|------------|------|------|
| Adak            | 1P | 20 32 51.1 | 1S | 20 33 32.5 | 390  | 3.5  |
| Big Mountain    | eP | 34 36.7    |    |            | 1235 | 11.1 |
| Sparrevohn      | eP | 51         |    |            | 1320 | 11.9 |
| Mts Sheep Creek | eP | 35 38      |    |            | 1745 | 15.7 |
| College         | eP | 53         |    |            | 1900 | 17.1 |
| Black Rapids    | eP | 54         |    |            | 1900 | 17.1 |
| Pedro Dome      | eP | 56.8       |    |            | 1910 | 17.2 |
| Edmonton        | eP | 38 38      |    |            | 3765 | 33.9 |
| Newport         | eP | 38         |    |            | 3765 | 33.9 |
| Blue M.         | eP | 52         |    |            | 3945 | 35.5 |
| Eureka          | 1P | 39 26.2    |    |            | 4380 | 39.4 |
| Woody           | 1P | 31         |    |            | 4455 | 40.1 |
| Dugway          | eP | 37.6       |    |            | 4545 | 40.9 |
| Uinta Basin     | eP | 53.6       |    |            | 4755 | 42.8 |
| Tonto Forest    | eP | 40 16.4    |    |            | 5065 | 45.6 |
| Tucson          | eP | 28.5       |    |            | 5255 | 47.3 |
| Wichita M.      | eP | 41 11.6    |    |            | 5890 | 53.0 |
| Cumberland Pl.  | eP | 42 00.3    |    |            | 6665 | 60.0 |

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Iles Kouriles.

43°0 N ; 147°8 E ; h = 33<sup>km</sup> ; H = 21<sup>h.58<sup>mn</sup>24.1<sup>s.</sup></sup>(CGS)  
44°0 N ; 147°2 E ; H = 21<sup>h.58<sup>mn</sup>31<sup>s.</sup></sup>(URSS)

M. = 5.5(Kajaani); 5.4(Nurmijaerwi); 5.3(Kevo); 5.2(Roma); 5.1(Mt. Tsukuba);  
5.0(URSS - Eureka); 4.9(CGS - Cumberland Pl.); 4.7(College - Uinta Basin);  
4.6(Dugway - Wichita M.); 4.5(Tonto Forest); 4.1(Blue M.).

|               |    |                    |    |          |      |      |
|---------------|----|--------------------|----|----------|------|------|
| Mt. Tsukuba   | eP | 22 00 30.7         |    |          | 1000 | 9.0  |
| Dodaira       | eP | 41.1               |    |          | 1065 | 9.6  |
| Matsushiro    | 1P | 43.2               | eS | 22 02 25 | 1095 | 9.8  |
| Vladivostok   | eP | 01 08              | eS | 03 19    | 1295 | 11.6 |
| Yakoutsk      | 1P | 03 11 <sup>D</sup> |    |          | 2430 | 21.9 |
| Bodajbo       | eP | 50                 |    |          | 2860 | 25.7 |
| Oulan Bator   | P  | 04 20              |    |          | 3205 | 28.9 |
| Tiksi         | eP | 28                 |    |          | 3355 | 30.2 |
| Barrow        | eP | 05 35.8            | 1  | 05 55.7  | 4335 | 39.0 |
| College       | 1P | 06 09.5            |    |          | 4610 | 41.5 |
| Pedro Dome    | eP | 10.5               |    |          | 4620 | 41.6 |
| Black Rapids  | eP | 16.6               |    |          | 4710 | 42.4 |
| Semipalatinsk | P  | 41.5               |    |          | 5050 | 45.5 |

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|              |    |                   |      |            |      |      |
|--------------|----|-------------------|------|------------|------|------|
| Kheis        | eP | 22 06 57          |      |            | 5320 | 47°9 |
| Shillong     | 1P | 07 05°5           |      |            | 5390 | 48°5 |
| Talgar       | eP | 18                |      |            | 5550 | 49°9 |
| Chatra       | 1P | 29 <sup>D</sup>   |      |            | 5690 | 51°2 |
| Alert        | eP | 44                |      |            | 5990 | 53°9 |
| Sverdlovsk   | 1P | 46 <sup>C</sup>   |      |            | 6000 | 54°0 |
| Station Nord | 1P | 55                |      |            | 6155 | 55°4 |
| Resolute     | eP | 57°1 <sup>C</sup> |      |            | 6180 | 55°6 |
| Garm         | eP | 08 06             |      |            | 6295 | 56°6 |
| New Dehli    | eP | 12                |      |            | 6380 | 57°4 |
| Samarkand    | eP | 19                |      |            | 6500 | 58°5 |
| Warsak       | eP | 19°1              |      |            | 6500 | 58°5 |
| Kirkenes     | eP | 21                |      |            | 6535 | 58°8 |
| Apatity      | 1P | 24 <sup>C</sup>   |      |            | 6590 | 59°3 |
| Kevo         | 1P | 25°9              | e    | 22 08 37   | 6620 | 59°6 |
| Sodankylä    | eP | 38                |      |            | 6820 | 61°4 |
| Edmonton     | eP | 40                |      |            | 6855 | 62°7 |
| Kiruna       | 1P | 46°6              |      |            | 6955 | 62°7 |
| Kajaani      | 1P | 50°2              | i    | 09 02      | 7045 | 63°4 |
| Oulu         | 1P | 50°2              |      |            | 7020 | 63°2 |
| Warramunga   | eP | 55°5              |      |            | 7090 | 63°8 |
| Quetta       | eP | 56°3              |      |            | 7090 | 63°8 |
| Blue M.      | eP | 58°5              |      |            | 7155 | 64°4 |
| Vannovskaya  | eP | 09 04             |      |            | 7245 | 65°2 |
| Uméa         | 1P | 06°7              |      |            | 7305 | 65°8 |
| Poona        | eP | 09                |      |            | 7330 | 66°0 |
| Jamestown    | eP | 13°6 <sup>D</sup> | e    | 22 09 25°2 | 7400 | 66°6 |
| Nurmijaerwi  | 1P | 14°7              | i    | 28         | 7435 | 66°9 |
| Eureka       | 1P | 25°2              |      |            | 7600 | 68°4 |
| Woody        | eP | 28                |      |            | 7655 | 68°9 |
| Frobisher    | eP | 31°2              |      |            | 7755 | 69°8 |
| Uppsala      | 1P | 31°2              |      |            | 7740 | 69°6 |
| Dugway       | eP | 33°8              |      |            | 7755 | 69°8 |
| Lillehammer  | 1P | 37°2              | PcP  | 59         | 7845 | 70°6 |
| Uddeholm     | 1P | 37°4              |      |            | 7845 | 70°6 |
| Kirovabad    | 1P | 39                |      |            | 7860 | 70°7 |
| Tbilisi      | P  | 41                |      |            | 7880 | 70°9 |
| Goris        | eP | 45                |      |            | 7940 | 71°5 |
| Uinta Basin  | eP | 45°2              | ePS  | 19 22      | 7965 | 71°7 |
| Bakouriani   | 1P | 45°8 <sup>C</sup> |      |            | 7960 | 71°6 |
| Tabriz       | 1P | 51                |      |            | 8045 | 72°4 |
| Chiraz       | P  | 58°9              |      |            | 8190 | 73°7 |
| Tonto Forest | eP | 10 02°9           | ePcP | 10 15°1    | 8290 | 74°6 |
| Göteborg     | 1P | 04°8              |      |            | 8120 | 73°1 |
| Kichinev     | 1P | 09 <sup>D</sup>   |      |            | 8375 | 75°4 |
| Tucson       | eP | 10°2              |      |            | 8465 | 76°2 |
| Albuquerque  | eP | 15                |      |            | 8565 | 77°1 |
| Niedzica     | eP | 16°8              | e    | 38°3       | 8565 | 77°1 |
| Vrincioaia   | eP | 18                |      |            | 8550 | 76°9 |
| Oujgorod     | eP | 18                |      |            | 8550 | 76°9 |
| Raciborz     | eP | 20                |      |            | 8600 | 77°4 |

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|                   |                   |                   |     |            |       |       |
|-------------------|-------------------|-------------------|-----|------------|-------|-------|
| Pruhonice         | P                 | 22 10 26          |     |            | 8755  | 78°8  |
| Campulung         | eP                | 29                |     |            | 8735  | 78°8  |
| Moxa              | eP                | 31                |     |            | 8810  | 79°3  |
| Kasperské Hory    | P                 | 32                |     |            | 8880  | 79°9  |
| Erlangen          | eP                | 33°9 <sup>D</sup> |     |            | 8910  | 80°2  |
| Bensberg          | eP                | 36°5              | e   | 22 11 06°4 | 8935  | 80°4  |
| Fürstenfeldbruck  | ePcP              | 41                | epP | 10 44      | 9050  | 81°5  |
| Wichita M.        | eP                | 41°8              |     |            | 9090  | 81°8  |
| Champ du Feu      | eP                | 49°4              |     |            | 9175  | 82°6  |
| Haudompré         | eP                | 52°5              |     |            | 9245  | 83°2  |
| Sommée Lormes     | eP                | 55°9              |     |            | 9410  | 84°7  |
| Les Buteaux       | eP                | 56°9              |     |            | 9425  | 84°8  |
| Luxembourg        | (P)               | 57                |     |            | 9095  | 81°9  |
| St. Saulge        | eP                | 57°3              |     |            | 9435  | 84°9  |
| Rosdlend          | eP                | 59                | e   | 11 03      | 9465  | 85°2  |
| Vouglans          | eP                | 11 01             | e   | 10         | 9430  | 84°9  |
| Garchy            | 1P                | 01°3 <sup>D</sup> |     |            | 9425  | 84°8  |
| Toulx Ste Croix   | eP                | 03°4              |     |            | 9555  | 86°0  |
| Lanslevillard     | eP                | 04                | e   | 28         | 9495  | 85°4  |
| St. Paul en Forêt | eP                | 08°4              |     |            | 9670  | 87°0  |
| Lorgues           | eP                | 09°5              |     |            | 9695  | 87°3  |
| La Mourre         | eP                | 09°8              |     |            | 9700  | 87°3  |
| Cumberland Pl.    | eP                | 12°5              |     |            | 9765  | 87°9  |
| Tamanrasset       | (PKP)             | 16 50             |     |            | 11765 | 105°9 |
| Bangui            | ePKP <sub>1</sub> | 17 10°6           | 1PP | 17 52°3    | 12700 | 114°3 |

Inscrit à Monteynard - l'Aquila - Roma - Toledo - Strasbourg -  
Istanbul UTI - Uccle - Trieste - La Paz.

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Données insuffisantes.

|             |    |                      |     |          |  |  |
|-------------|----|----------------------|-----|----------|--|--|
| Changalane  | eP | 22 38 11             |     |          |  |  |
| Bulawayo    | eP | 48                   |     |          |  |  |
| Karoi       | eP | 39 11                | 1PP | 22 39 27 |  |  |
| Broken Hill | eP | 28                   |     |          |  |  |
| Chileka     | eP | 43                   |     |          |  |  |
| Bangui      | 1P | 41 32°2 <sup>C</sup> | 1S  | 49 49°9  |  |  |
| Addis Ababa | eP | 42 44                |     |          |  |  |
| Tamanrasset | e  | 43 29                |     |          |  |  |
| Ifrane      | eP | 44 32                | eM  | 44 47    |  |  |

Inscrit à M'Bour - Hermanus - Windhoek - Rabat.

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Iles Kouriles.

43°2 N ; 146°8 E ; h = 33km ; H = 23h.04<sup>mm</sup>42<sup>s</sup>. (CGS)

M. = 5°0(Kajaani) ; 4°5(CGS) ; 4°2(Uinta Basin)

|             |      |            |      |      |
|-------------|------|------------|------|------|
| Mt. Tsukuba | e(P) | 23 07 44°5 | 965  | 8°7  |
| College     | eP   | 12 29      | 4635 | 41°7 |
| Resolute    | eP   | 14 14°7C   | 6180 | 55°6 |
| Sodankylä   | eP   | 53         | 6765 | 60°9 |
| Oulu        | eP   | 15 05      |      |      |
| Kajaani     | iP   | 05         | 6980 | 62°8 |
| Uméa        | iP   | 21°7       |      |      |
| Nurmijaerwi | iP   | 29°5       | 7380 | 66°4 |
| Uppsala     | iP   | 46°6       |      |      |
| Uddeholm    | eP   | 52         |      |      |
| Lillehammer | eP   | 53°0       |      |      |
| Uinta Basin | eP   | 16 05      | 8010 | 72°1 |

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de Séismologie.

Mme M. Chocquet  
M. P. Laterrade