

INSTITUTO GEOFÍSICO DA UNIVERSIDADE DE COIMBRA

Observações Meteorológicas, Magnéticas e Sismológicas

ANO DE 1977

3.^a Parte — OBSERVAÇÕES SISMOLÓGICAS

VOLUME CXVI



I. G. U. C.

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I.G.U.C.

BOLETIM SISMOLOGICO

ANO 1977

1. ENDEREÇO-ADDRESS

Instituto Geofisico da Universidade de Coimbra
Av. Dias da Silva
3000 Coimbra - PORTUGAL

2. ESTAÇÃO SISMOGRAFICA DE COIMBRA (COI)

Latitude: 40° 12' 25'' N Altitude: 140 metros
Longitude: 08° 25' 30'' W Sub-solo: Arenitos triássicos

3. SISMOGRAFOS

| | | | | | |
|------------------|-------------|----------|-------|---------------|--------------|
| Geotech CP-Z,N,E | $T_s = 1s$ | Grenet | CPG-Z | $T_g = 0.75s$ | $T_s = 1.4s$ |
| Geotech LP-Z | $T_s = 15s$ | Wiechert | LPW-Z | $T_g = 1.5s$ | $T_s = 5.3s$ |

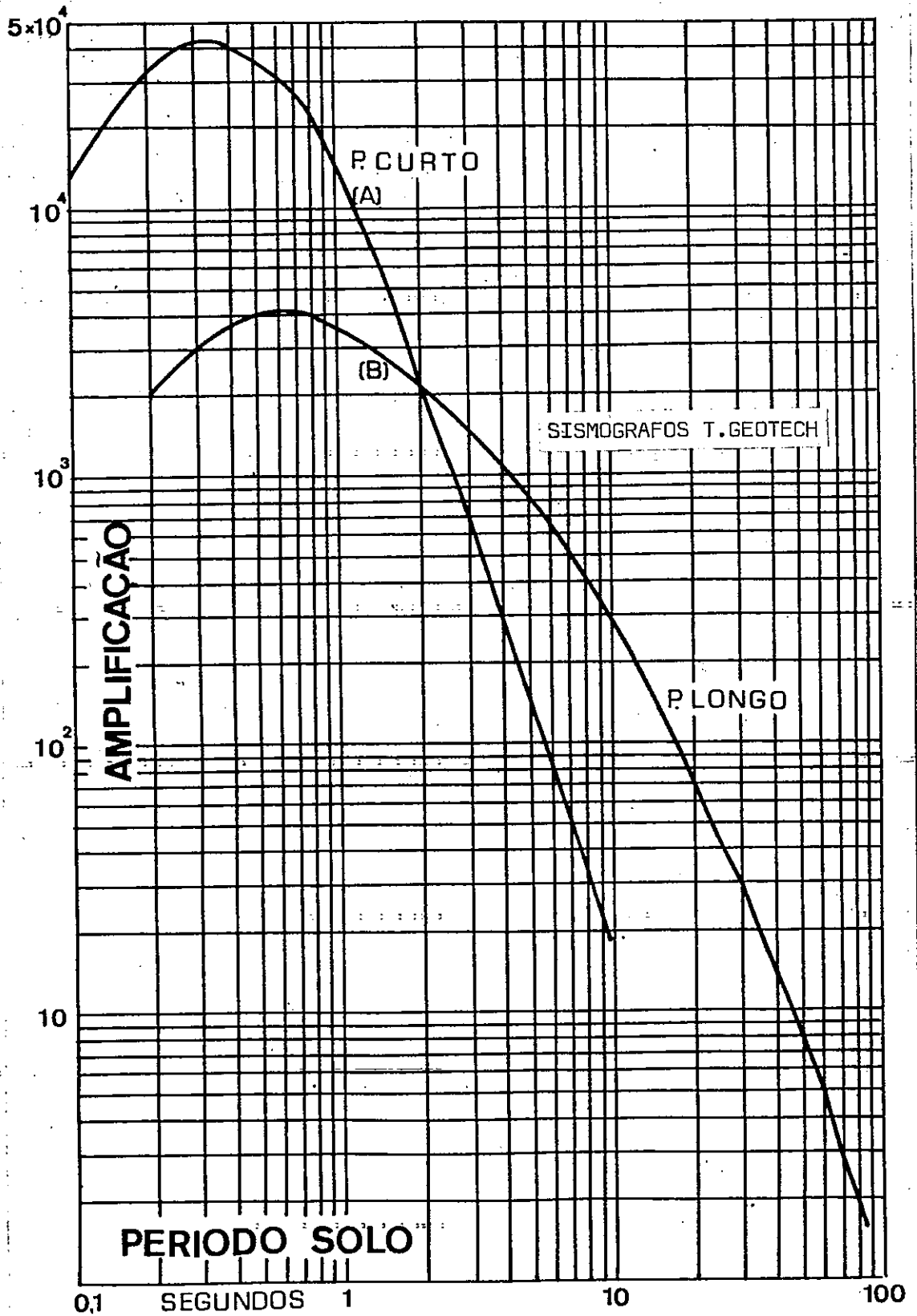
O periodo T(s) lido entre os três primeiros ciclos iniciais, a contracção C e a dilatação D referem-se à componente vertical do periodo curto (Z-CP).

The period T(s), the compression C and the dilation D are measured from short period vertical (Z-CP).

4. ABREVIATURAS

GS United States Geological Survey - Washington
IS Seccion de Sismologia e Ingenieria Sismica - Madrid
SP Service de Physique du Globe - Rabat
IN Instituto Nacional de Meteorologia e Geofisica - Lisboa
UC Instituto Geofisico da Universidade de Coimbra

ESTAÇÃO DE COIMBRA



ABREV.

A: CP-Z, N, E

B: LP-Z

| DIA | FASE | HORA-TMG | COMP-APAR | T(S) | DIST-KM | REFERENCIAS |
|-----|-------------------|-------------------------------------|----------------------|------|---------|---|
| 01 | IP | 21 51 12.0 | Z-CP | 0.9 | 08048 | GS HB 21 39 41.3 38.2N 90.0E TSINGHAI-CHINA |
| 02 | EPN ISN | 01 31 24.3 32 05.3 | E-CP E-CP | | 00462 | SP HB 01 30 28.5 36.5N 10.8W |
| 05 | EP | 05 54 04.0 | Z-CP | 0.7 | 05981 | GS HB 05 44 39.9 27.5N 56.2E SUL DO IRAQ |
| 09 | EPN ISN | 18 07 12.3 08 01.2 | Z-CP E-CP | | 00463 | IN HB 18 06 10 37.0N 11.8W OCEANO ATLANTICO |
| 16 | EPN | 00 00 24.0 | Z-CP | | 00668 | GS HB 23 58 46.8 35.6N 3.6W MARROCOS |
| 16 | IPN ISN | 21 07 03.5 07 54.8 | Z-CP N-CP | | 00427 | IN HB 21 06 55 36.8N 4.9W MALAGA-ESPANHA |
| 17 | EP | 21 39 50.1 | Z-CP | 0.7 | 09527 | GS HB 21 27 12.6 24.8S 68.7W FRONT CHILE-ARGENTINA |
| 19 | EP | 00 58 06.7 | Z-CP | | 08449 | GS HB 00 46 18.3 37.0N 95.7E SINKIANG-CHINA |
| 19 | IP I | 20 50 10.7C 50 18.3 | Z-CP Z-CP | 1.2 | 01523 | GS HB 20 46 53.3 36.6N 8.5E TUNISIA |
| 23 | EPN ISN | 12 49 30.6 49 53.6 | E-CP E-CP | | 00189 | UC HB 12 49 05 |
| 29 | IPG ISG | 03 30 51.7 30 55.8 | E-CP E-CP | | LOCAL | |
| 30 | EPN ISN ISG | 04 59 22.3 59 56.9 05 00 01.4 | Z-CP E-CP E-CP | | 00290 | REG COI PTQ |
| 31 | EIP EIPP | 14 36 12.0 38 01.7 | Z-CP Z-CP | 0.7 | 06481 | GS HB 14 26 14.8 40.0N 70.8E TACHESKENT-URSS |

| DIA | FASE | HORA-ING | CBMP-APAR | T(S) | DIST-KM | REFERENCIAS |
|-----|------|------------|-----------|-----------------------|---------|-------------------------------|
| 04 | IP | 07 57 59.8 | Z-CP | 1.1 | 09166 | GS H0 07 46 33.8 24.7S 63.4W |
| | EIPP | 08 00 03.1 | Z-CP | | | PROV SALTA-ARGENTINA |
| 16 | EP | 00 54 08.8 | Z-LP | | 02282 | GS H0 00 49 31.2 26.0N 26.3W |
| | | | | | | ATLANTICO/NORTE |
| 18 | EPN | 12 10 31.3 | Z-CP | | 00510 | SP H0 12 09 23.5 36.6W 5.1W |
| | ISN | 11 15.3 | E-CP | | | PROX ESTR GILBRALTAR |
| | ISG | 11 44.0 | N-CP | | | |
| 19 | EP | 22 46 45.0 | Z-CP | LP 0.9 | 09569 | GS H0 22 34 04.1 55.6N 170.0E |
| | IPCP | 46 49.2 | Z-LP | | | ILHAS ALEUTINAS |
| | EPP | 49 14.0 | Z-LP | | | |
| | EIS | 57 24.4 | Z-LP | | | |
| | L | 23 19.8 | Z-LP | | | |
| | M | 23 24.7 | Z-LP | | | |
| 26 | EP | 22 47 28.3 | Z-CP | 0.8 | 01721 | GS H0 22 43 48.9 28.5N 20.8W |
| | | | | <i>Ilhas Canárias</i> | | ILHAS CANARIAS |
| 28 | EP | 01 43 43.6 | Z-CP | | 08353 | GS H0 01 32 02.0 4.0N 82.5W |
| | ES | 50 05.6 | E-CP | | | SUL PANAMA |

| DIA | FASE | HORA-TMG | COMP-APAR | T(S) | DIST-KM | REFERENCIAS |
|-----|------|-------------|-------------|------|---------|---|
| 02 | EPKP | 10 12 03.0 | Z-LP | | 12838 | GS H0 09 53 23.2 6.8N 123.7E ILHA MINDANAU |
| 02 | EP | 23 23 35.4 | Z-LP | | 09419 | GS H0 23 11 01.8 54.7N 163.7E ESTE DE KAMCHATCA |
| 04 | EIP | 19 27 20.00 | Z-CP LP 0.7 | | 02975 | GS H0 19 21 54.1 45.8N 29.8E ROMENIA DESTRUIDOR MAG 6.4 MB |
| | I*P | 27 28.8 | Z-LP | | | |
| | IPP | 27 52.0 | Z-LP | | | |
| | IPPP | 27 68.4 | Z-LP | | | |
| | IS | 31 22.8 | Z-LP | | | |
| | ISS | 32 17.0 | Z-LP | | | |
| | ISSS | 32 44.8 | Z-LP | | | |
| | L | 19 34.4 | Z-LP | | | |
| 05 | EPN | 00 12 20.7 | Z-CP | | 00557 | SP H0 00 10 38 35.7N 11.2W COSTA DE MARROCOS |
| | ESN | 12 56.0 | Z-CP | | | |
| 07 | EPN | 09 42 34.0 | Z-CP | | 00411 | SP H0 09 41 39.5 36.7N 9.7W SW DE S. VICENTE |
| | ESN | 43 22.0 | N-CP | | | |
| 07 | ESN | 21 20 18.4 | E-CP | | | PRÓXIMO SENTIDO EM CASCAIS |
| 08 | IP | 22 18 16.00 | Z-CP | 1.1 | 08878 | GS H0 22 46 04.8 12.1S 74.0W PERU |
| 09 | IP | 14 40 00.40 | Z-CP | 0.9 | 10017 | GS H0 14 27 53.6 41.6N 130.9E COREIA DO NORTE |
| 10 | EPN | 13 52 32.7 | Z-CP | | 00684 | SP H0 13 51 02.0 36.3N 14.5W OCEANO ATLANTICO |
| 11 | ESN | 18 35 13.0 | Z-CP | | | PRÓXIMO |
| | ISG | 35 23.6 | Z-CP | | | |
| 18 | EPN | 10 00 21.5 | Z-CP | | 00400 | SP H0 09 59 24 36.8N 9.9W OCEANO ATLANTICO |
| | ISN | 00 52.9 | Z-CP | | | |
| 18 | IPP | 22 02 38.40 | Z-LP | | 11868 | GS H0 21 43 52.4 16.8N 122.3E LUZON-FILIPINAS |
| | EPPP | 05 50.0 | Z-LP | | | |
| | ES | 10 03.0 | Z-LP | | | |
| | ESS | 17 28.5 | Z-LP | | | |
| | L | 22 24.3 | Z-LP | | | |
| | H | 22 42.5 | Z-LP | | | |
| 21 | IP | 21 28 19.00 | Z-CP LP 0.8 | | 05999 | GS H0 21 18 54.2 27.6N 56.4E SUL DO IRAQ ESTRAGOS E VITIMAS |
| | IPCP | 29 29.2 | Z-LP | | | |
| | IPP | 30 09.2 | Z-LP | | | |
| | IS | 36 04.8 | Z-LP | | | |
| | ISS | 40 35.0 | Z-LP | | | |
| | L | 21 43.4 | Z-LP | | | |

| | | | | | | | | | |
|----|------|-------------|-------------|-------|----|---------------------|-------|--------|--|
| | M | 21 53.8 | Z-LP | | | | | | |
| 21 | IP | 22 51 31.20 | Z-CP LP | 05999 | GS | H0 22 42 06.5 | 27.6N | 56.2E | |
| | LM | 23 17.5 | Z-LP | | | SUL D0 IRA0 | | | |
| 22 | EPKP | 02 42 45.0 | Z-LP | 18992 | GS | H0 02 23 17.8 | 33.6S | 179.1E | |
| | | | | | | ILHAS KERMADEC | | | |
| 22 | EP | 09 24 05.0 | Z-LP | 06005 | GS | H0 09 14 48.1 | 27.6N | 56.4E | |
| | | | | | | SUL D0 IRA0 | | | |
| 22 | IP | 12 06 55.00 | Z-CP LP | 06006 | GS | H0 11 57 30.9 | 27.6N | 56.5E | |
| | IS | 14 38.0 | Z-LP | | | SUL D0 IRA0 | | | |
| | M | 12 34.0 | Z-LP | | | | | | |
| 22 | EP | 21 40 27.5 | Z-CP | 05994 | GS | H0 21 31 02.6 | 27.7N | 56.4E | |
| | I | 40 41.3 | | | | SUL D0 IRA0 | | | |
| 23 | EPKP | 07 39 13.4 | Z-LP | 16947 | GS | H0 07 19 11.1 | 14.5S | 177.9W | |
| | LM | 08 40.5 | Z-LP | | | ILHAS FIJI | | | |
| 23 | ESN | 11 21 13.6 | Z-CP | 00455 | SP | H0 11 19 20.5 | 36.6N | 5.9W | |
| | ESG | 21 37.7 | E-CP | | | MALAGA-ESPANHA | | | |
| 23 | EPKP | 17 30 25.0 | Z-LP | 16939 | GS | H0 17 10 19.5 | 14.4S | 178.0W | |
| | LM | 18 30.5 | | | | ILHAS FIJI | | | |
| 24 | IP | 00 00 41.00 | Z-CP LP 0.9 | 06015 | GS | H0 23 51 15.8 | 27.6N | 56.6E | |
| | | | | | | SUL D0 IRA0 | | | |
| 24 | EP | 00 23 15.3 | Z-CP | 06005 | GS | H0 00 13 52.3 | 27.5N | 56.4E | |
| | | | | | | SUL D0 IRA0 | | | |
| 24 | EP | 04 51 50.0 | Z-CP LP | 06015 | GS | H0 04 42 24.3 | 27.6N | 56.6E | |
| | | | | | | SUL D0 IRA0 | | | |
| 24 | EP | 14 20 02.3 | Z-CP | 06022 | GS | H0 14 10 46.4 | 27.4N | 56.5E | |
| | | | | | | SUL D0 IRA0 | | | |
| 25 | EPG | 23 11 53.6 | Z-CP | 00080 | | REGISTAD0 MTE | | | |
| | ISG | 12 03.6 | Z-CP | | | | | | |
| 26 | IP | 04 48 54.0 | Z-CP LP 0.9 | 09529 | GS | H0 04 36 14.7 | 52.3N | 168.3W | |
| | EPP | 51 26.0 | Z-LP | | | ILHAS FOX-ALEUTAS | | | |
| | ES | 05 04 37.2 | Z-LP | | | | | | |
| | LM | 05 28.5 | Z-LP | | | | | | |
| 26 | EP | 22 34 39.3 | Z-CP | 04600 | GS | H0 22 26 54.7 | 1.0S | 14.0S | |
| | | | | | | NORTE ILHA ASCENSA0 | | | |
| 28 | EP | 23 38 42.4 | Z-CP | 06005 | GS | H0 22 29 16.8 | 27.6N | 56.4E | |

| DIA | FASE | HORA-TMG | COMP=APAR | T(S) | DIST=KM | REFERENCIAS |
|-----|------------------------------------|--|--|------|---------|--|
| 01 | IP IPP IS | 13 45 48.70 47 25.4 53 04.4 | Z=CP Z=LP Z=LP | 0.7 | 05998 | GS H0 13 36 24.7 27.5N 56.3E SUL DO IRAO |
| 02 | ISN | 03 17 59.2 | E=CP | | | REG MTE |
| 02 | IP IPP ISKS ISS L M | 07 35 11.50 39 02.5 42 30.0 56 34.5 08 30.3 08 38.7 | Z=CP Z=LP Z=LP Z=LP Z=LP Z=LP | 1.6 | 16909 | GS H0 07 15 22.7 16.7S 172.1W ILHAS SAMOA GRAU VI TSUNAMI 4-15CM |
| 02 | IPN IPG ISN ISG | 16 06 00.20 06 15.0 06 46.4 07 11.7 | Z=CP Z=CP E=CP E=CP | | 00483 | GS H0 16 04 54.3 36.2N 10.5W ATLANTICO NORTE |
| 04 | EP ES LM | 17 59 57.1 18 06 07.4 18 11 0 | Z=CPLP Z=LP Z=LP | 0.8 | 04495 | GS H0 17 52 19.7 7.3N 34.9W CRISTA CENTRAL DO ATLANTICO |
| 05 | IPN ISN | 20 30 04.4C 30 30.5 | Z=CP Z=CP | | 00140 | GS H0 20 29 37.8 39.6N 9.8W PORTUGAL |
| 06 | EP ES | 13 45 14.4 52 00.0 | Z=CPLP Z=CP | | 05282 | GS H0 13.36 37.1 32.0N 50.7E IRA0 |
| 06 | EPG ISG | 17 38 37.6 38 23.6 | Z=CP Z=CP | | 00120 | REG MTE |
| 08 | ISN ISG | 01 06 51.1 07 02.7 | Z=CP E=CP | | | REG MTE |
| 09 | EP IPP | 04 15 06.6 17 04.4 | Z=CPLP Z=LP | 1.2 | 08500 | GS H0 04 04 12.5 10.0S 71.2W FRONT PERU/BRASIL |
| 12 | IPN ISN | 19 48 09.3 48 37.7 | Z=CP N=CP | | 00240 | REG MTE |
| 13 | IPG ISG | 10 49 25.10 49 28.0 | Z=CP Z=CP | | | SISMO LOCAL |
| 13 | EP | 11 43 41.0 | Z=CPLP | 1.3 | 06680 | GS H0 11 33 51.8 36.5N 70.9E INDUKUSH |
| 14 | EP ES | 07 20 00.5 22 02.0 07 24.4 | Z=CP Z=LP Z=LP | | 01309 | GS H0 07 17 09.0 36.3N 5.7E ARGELIA |
| 18 | EIP | 00 22 51 2 | Z=CPLP | 0.9 | 06779 | GS H0 00 13 04.6 34.5N 70.8E HINDUKUSH |

| | | | | | | |
|----|---|--|--|-----|-------|---|
| 20 | EP | 04 31 45.7 | Z=CPLP | | 05961 | GS H0 04 22 24.8 26.9N 55.5E SUL DO IRAO |
| 20 | EIPKP EIPP EISKS EISKKS | 23 32 50.8 36 21.4 40 54.0 43 18.8 | Z=CPLP Z=LP Z=LP Z=LP | 1.3 | 16752 | GS H0 23 13 10.4 9.8S 160.3E TLHAS SALOMAO GRAU VI TSUNAMI 7.6CM |
| 20 | EIPKP IPP IPPP ISS | 00 02 35.5 06 14.4 09 04.8 25 48.6 | Z=CP Z=LP Z=LP Z=LP | | 16435 | GS H0 23 42 50.5 9.9S 160.3E TLHAS SALOMAO |
| 21 | EPKP | 00 22 31.8 | Z=CP | | 15595 | GS H0 00 02 49.0 9.7S 160.1E TLHAS SALOMAO |
| 21 | EPKP | 01 04 13.0 | Z=CP | | 16469 | GS H0 00 44 33.5 10.9S 158.2E TLHAS SALOMAO |
| 21 | EPKP | 01 40 20.0 | Z=CP | | 16425 | GS H0 01 20 32.8 9.9S 159.9E TLHAS SALOMAO |
| 21 | EPP | 02 04 40.0 | Z=CP | | 11954 | GS H0 01 45 50.2 26.9N 142.4E ILHAS DE BONIN |
| 21 | EIPKP EIPP EISKS EISS L M. | 04 43 50.0 47 23.8 51 52.0 05 06 11.2 05 40.0 05 53.2 | Z=CPLP Z=LP Z=LP Z=LP Z=LP Z=LP | 1.0 | 16423 | GS H0 04 24 09.6 9.6S 160.7E ILHAS SALOMAO GRAU VII ESTRAGOS FORTES E VITIMAS |
| 21 | EPKP | 05 26 12.0 | Z=CP | 1.7 | 16475 | GS H0 05 06 28.5 10.1S 160.7E ILHAS SALOMAO |
| 21 | EPKP | 07 38 36.0 | Z CP | 1.0 | 16485 | GS H0 07 18 51.1 10.2S 160.7E TLHAS SALOMAO |
| 21 | EPKP | 10 05 21.5 | Z=CP | | 16495 | GS H0 09 45 38.2 10.3S 160.7E ILHAS SALOMAO |
| 21 | EPKP | 17 13 01.8 | Z=CPLP | 1.3 | 16478 | GS H0 16 53 11.5 10.2S 160.6E ILHAS SALOMAO |
| 22 | EP | 03 04 01.8 | Z=CPLP | 0.9 | 09575 | GS H0 00 52 01.6 52.3N 153.8E ILHA KURILHAS |
| 22 | EPKP | 03 30 44.0 | Z=CP | | 16476 | GS H0 03 11 00.2 10.2S 160.7E ILHAS SALOMAO |
| 22 | EPKP | 13 40 20.0 | Z CP | | 16426 | GS H0 13 20 36.3 09.9S 159.9E ILHAS SALOMAO |
| 22 | EPKP | 18 44 57.1 | Z CP | | 16461 | GS H0 18 25 11.0 10.1S 160.7E ILHAS SALOMAO |

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|----|------|-------------|--------|-----|-------|-----------------------|-------|--------|
| 24 | EPKP | 19 28 52.3 | Z CP | 1.3 | 16425 | GS HB 06 28 52.3 | 9.9S | 160.1E |
| | | | | | | ILHAS SALOMA0 | | |
| 24 | EPN | 18 48 35.0 | Z-CP | | 00495 | IN HB 18 47 35 | 36.4N | 5.5W |
| | ISN | 49 38.3 | E-CP | | | OLVERA PROV. DE CADIZ | | |
| | ISG | 50 54.7 | E-CP | | | ESPANHA | | |
| 26 | IP | 16 33 50.3D | Z-CPLP | 1.1 | 04914 | GS HB 16 25 29.0 | 36.7N | 48.9E |
| | | | | | | TRAB ORIENTAL | | |

| DIA | FASE | HORA-TMG | COMP-APAR | T(S) | DIST-KM | REFERENCIAS |
|-----|-------------------|----------------------------------|----------------------|------|---------|---|
| 02 | EP | 15 26 35.5 | Z-CP | 1.0 | 05417 | GS H0 15 17 48.9 37.0N 55.2E FRONT IRAQ/URSS |
| 03 | IPN ISN | 17 55 17.3D 56 03.9 | Z-CP N-CP | | 00496 | GS H0 17 54 09.7 37.1N 4.3W ALAMEDA PROV SEVILHA |
| 03 | EPN ISN | 22 24 28.0 25 10.0 | Z-CP E-CP | | 00508 | H0 22 23 22 35.8N 10.0W SW SAGRES OCEANO ATLANTICO |
| 05 | EPN ESN ESG | 12 18 02.0 18 28.5 18 36.0 | Z-CP E-CP E-CP | | 00240 | REG MTE PT0 |
| 05 | EPN ISN | 21 34 41.2 35 12.0 | Z-CP N-CP | | 00270 | REG MTE PT0 |
| 12 | EP | 11 30 37.6 | Z-CP-LP | 1.4 | 09608 | GS H0 11 17 53.1 39.3N 117.7E NORDESTE DA CHINA |
| 12 | EP | 12 32 33.0 | Z-CP | | 09361 | GS H0 12 20 00.7 21.7N 93.0E BURMA NORDESTE DA CHINA |
| 12 | IP | 21 50 14.0D | Z-CP-LP | 0.9 | 09820 | GS H0 21 37 33.4 50.2N 155.0E ILHAS KURILHAS |
| 13 | EP | 18 23 06.4 | Z-CP | 1.0 | 02714 | GS H0 18 17 46.1 39.1N 23.5E MAR EGEO |
| 14 | EP | 06 16 43.3 | Z-CP | | 08774 | GS H0 06 04 39.7 1.5N 85.3W COSTA DO EQUADOR |
| 19 | EP | 22 07 51.5 | Z-CP | 0.4 | 05937 | GS H0 22 58 30.8 27.1N 55.3E SUL DO IRAQ |
| 24 | EPKP | 10 43 16.7 | Z-CP | | 12890 | GS H0 10 23 23.4 18.8N 145.3E ILHAS MARIANAS |
| 25 | EPN ISN | 13 34 24.3 35 11.9 | Z-CP Z-CP | | 00448 | IN H0 13 33 22 36.8N 11.2W SUDESTE DE SAGRES |
| 25 | IPG ISG | 18 07 51.7 07 56.7 | Z-CP Z-CP | | 00056 | LOCAL REG PT0 |
| 26 | IP LM | 01 42 48.0C 02 07.0 | Z-CP-LP Z-LP | | 04452 | GS H0 01 35 13.8 38.9N 44.4E FRONT TURQUIA/IRAQ |
| 29 | EP | 16 41 12.0 | Z-CP-LP | 1.1 | 01782 | GS H0 16 37 20.5 40.5N 29.5W ACORES |
| 29 | ESN ISG | 23 06 30.5 07 01.0 | Z-CP E-CP | | 00675 | GS H0 23 03 55.9 36.0N 2.7W MAR DE ALBORAN |
| 30 | EP LM | 15 29 41.4 16 11.0 | Z-CP-LP Z-LP | 0.9 | 09540 | GS H0 15 16 01.6 52.4N 169.7W ILHAS FOX ALEUTINAS |

| DIA | FASE | HORA-TMG | COMP-APAR T(S) | DIST=KM | REFERENCIAS |
|-----|---------------------|--|---------------------------------|---------|---|
| 01 | EIP ES LM | 13 01 04.7 06 36.0 13 15.3 | Z-CP=LP 0.9 Z-LP Z-LP | 03469 | GS H0 12 54 49.2 36.2N 31.3E TURQUIA |
| 03 | EP | 01 15 25.0 | Z CP 1.3 | 06561 | GS H0 01 05 23.7 39.9N 71.8E URSS GRAU VII |
| 03 | IP IPCP EPP | 02 40 52.4C 41 39.4 42 16.0 | Z CP=LP 0.8 Z CP=LP Z LP | 06670 | GS H0 02 31 04.7 36.4N 70.8E INDUSTAO |
| 03 | EPKP | 15 37 20.1 | Z-CP 1.2 | 17046 | GS H0 15 17 25.1 14.1S 166.6E NOVAS HEBRIDAS |
| 05 | IP | 02 58 44.7C | Z-CP=LP 1.3 | 09546 | GS H0 02 46 05.9 23.9S 70.2W COSTA NORTE DO CHILE |
| 05 | EIP ES L M | 04 53 24.7 05 00 13.0 05 05.0 05 15.8 | Z-CP=LP Z-LP Z-LP Z-LP | 05028 | GS H0 04 45 07.6 32.6N 48.1E IRA0 OCIDENTAL |
| 05 | EP | 08 33 49.6 | Z-CP=LP | 05042 | GS H0 08 25 30.8 32.6N 48.2E IRA0 OCIDENTAL |
| 05 | EP | 08 53 27.5 | Z-CP=LP | 05016 | GS H0 08 45 13.0 32.7N 47.9E FRONT IRA0/IRAQUE |
| 05 | EP | 14 03 34.3 | Z-CP=LP 1.0 | 01985 | GS H0 13 59 21.7 37.9N 14.5E SICILIA |
| 06 | IPN ISN ISG | 10 50 37.0 51 42.7 52 17.6 | Z-CP 0.7 E-CP E-CP | 00676 | GS H0 10 49 09.5 37.4N 1.5W PR0Y MURCIA ESPANHA GRAU III-IV |
| 06 | ESG | 16 04 15.0 | Z-CP | 00676 | GS H0 16 00 56.0 37.4N 1.7W LORCA-ESPANHA |
| 08 | EP | 13 37 23.6 | Z-CP 1.5 | 09199 | GS H0 13 25 15.6 22.1S 67.3W FRONT CHILE/BOLIVIA |
| 09 | ESG | 08 20 31.3 | Z-CP | 00676 | TS H0 08 17 23.0 37.4N 1.5W LORCA ESPANHA |
| 11 | EP | 20 38 54.0 | Z-CP=LP 1.1 | 02778 | GS H0 20 33 30.7 33.9N 39.0W CRISTA ATLANTICO NORTE |
| 14 | ISN | 15 11 21.3 | E-CP | 00498 | SP H0 15 09 32 35.9N 10.0W |
| 14 | IP | 21 49 01.00 | Z-CP=LP 1.7 | 06062 | GS H0 21 39 35.2 14.1S 14.4W CRISTA DO ATLANTICO SUL |
| 14 | EP | 00 01 29.8 | Z-CP=LP | 04501 | GS H0 23 53 49.9 16.6N 46.6W CRISTA DO ATLANTICO NORTE |

| | | | | |
|----------|-------------|-------------|-------|-------------------------------|
| 18 EPKP | 02 09 46.4 | Z=CP=LP | 17165 | GS H0 01 48 48.0 15.3S 166.1E |
| | | | | NOVAS HEBRIDAS |
| 18 EP | 17 01 42.8 | Z=CP=LP | 09184 | GS H0 16 49 40.9 20.9S 68.4W |
| | | | | FRONT CHILE/BOLIVIA |
| 18 EIPKP | 22 30 38.0 | Z=CP=LP 1.3 | 16403 | GS H0 22 10 49.6 9.8S 159.7E |
| | | | | ILHAS SALOMAO GRAU V |
| 19 IP | 12 00 11.7C | Z=CP 0.8 | 10074 | GS H0 11 47 23.4 47.1N 151.1E |
| | | | | ILHAS KURILHAS |
| 20 IPN | 15 00 56.3C | Z=CP | 00384 | TN H0 14 59 57 0036.8N 9.2W |
| ISN | 01 40.3 | Z=CP | | |
| 22 IPKP | 12 28 26.2C | Z=LP | 17726 | GS H0 12 08 33.4 22.9S 175.9W |
| IPP | 32 48.5 | Z=LP | | ILHAS DE TONGA |
| IPPP | 36 37.0 | Z=LP | | GRAU VII ESTRAGOS |
| ISS | 41 11.5 | Z=LP | | TSUNAMI 40 CM |
| LM | 13 28.2 | Z=LP | | |
| 25 EPN | 22 07 01.3 | Z=CP | 00249 | TN H0 22 06 24 42.4N 7.8W |
| ISN | 07 25.3 | N=CP | | NORTE PORTUGAL |
| ISG | 07 33.3 | E=CP | | |
| 26 EPN | 01 33 35.0 | Z=CP | 00771 | SI H0 01 31 32.0 37.3N 0.7W |
| ESN | 34 40.7 | Z=CP | | MAR MEDITERRANEO |
| 28 IP | 07 16 42.0C | Z=CP=LP 0.7 | 01986 | GS H0 07 12 49.3 38.6N 14.7E |
| ES | 19 54.4 | Z=LP | | SICILIA |
| 28 EP | 15 45 34.0 | Z=CP=LP 1.3 | 03950 | GS H0 15 38 37.0 22.6N 41.1W |
| | | | | CRISTA DO ATLANTICO NORTE |
| 28 EP | 16 25 11.6 | Z=CP=LP 1.3 | 03945 | GS H0 16 18 15.2 22.6N 45.1W |
| LM | 16 35.2 | Z=LP | | CRISTA DO ATLANTICO NORTE |
| 28 EIP | 19 25 31.6 | Z=CP=LP 1.3 | 03945 | GS H0 19 18 35.8 22.6N 45.1W |
| LM | 19 35.0 | Z=LP | | CRISTA DO ATLANTICO NORTE |
| 29 EPKP | 07 43 30.0 | Z LP | 14321 | GS H0 07 24 24.8 7.5S 127.6E |
| EPP | 45 41.6 | Z LP | | MAR DE BANDA |

| DIA | FASE | HORA-TMG | COMP-APAR | T(S) | DIST-KM | REFERENCIAS |
|-----|--------------------------|---|--------------------------------|------|---------|--|
| 02 | EPN ESN | 00 29 07.0 29 27.1 | Z-CP N-CP | | 00178 | REG MTE |
| 02 | EPKP | 01 15 00.0 | Z-CPLP | 1.1 | 16456 | GS H0 00 55 09.0 9.9S 160.5E ILHAS SALOMAO |
| 02 | EPG ISG | 23 18 59.0 19 08.7 | Z-CP N-CP | | 00078 | REG MTE |
| 03 | EP ESP | 14 58 05.0 15 09 12.0 | Z-CPLP Z-LP | 1.0 | 13485 | GS H0 14 39 14.1 1.4N 126.4E ESTREITO DAS MOLUCAS |
| 04 | EP | 02 12 49.0 | Z-CPLP | 1.0 | 02644 | GS H0 02 07 41.9 57.4N 32.9W ATLANTICO NORTE |
| 06 | EP I*P | 04 54 01.0 54 15.0 | Z-CPLP Z-LP | 1.0 | 08276 | GS H0 04 42 23.6 5.3N 82.6W SUL PANAMA |
| 06 | EP I | 11 47 24.0 48 03.0 | Z-CPLP Z-LP | 1.7 | 17755 | GS H0 11 28 31.5 21.1S 178.6W ILHAS FIJI |
| 10 | EPKP2 | 02 57 50.0 | Z-CPLP | 0.8 | 17621 | GS H0 02 37 14.6 19.1S 168.4E NOVAS HEBRIDAS |
| 10 | ESN | 12 38 32 | E-CP | | | REG MTE |
| 11 | ESN | 20 46 46.0 | E-CP | | | REG MTE E ESPANHA |
| 14 | EIP | 05 58 28.7C | Z-CPLP | 0.8 | 05902 | GS H0 05 49 08.7 40.3N 63.6E UZBESQUISTAO-URSS |
| 15 | LM | 03 18.7 | Z-LP | | 11213 | GS H0 02 12 54.4 24.0N 122.E FORMOSA |
| 15 | IPN ISN | 05 43 23.6C 44 33.3 | Z-CP N-CP | 0.3 | 00735 | GS H0 05 41 47.5 34.7N 3.7W MARROCOS GRAU V |
| 15 | IPN ISN ISG | 12 24 00.9D 24 28.7 24 34.0 | E-CP E-CP E-CP | 0.3 | 00249 | IN H0 12 23 23 42.4N 7.8W NORTE PORTUGAL |
| 18 | EP | 14 32 47.3 | Z-CP | | 06685 | GS H0 14 22 52.6 35.5N 70.3E INDUSTAO |
| 19 | EPN IPG ISN ISG | 16 29 34.0 29 47.2 30 13.6 30 23.6 | Z-CP Z-CP NE-CP NE-CP | | 00322 | REG LIS ESPANHA MARROCOS |
| 20 | EP | 13 36 46.3 | Z-CPLP | 1.3 | 09151 | GS H0 13 24 25.9 54.6N 161.6W PENINSULA ALASKA |
| 21 | EPKP I IPKP2 | 12 13 22.0 13 25.2C 18 04.0 | Z-CPLP Z-LP Z-LP | | 18181 | GS H0 11 53 22.5 53.8S 158.6E ILHAS MACQUARTE |

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|----|-------|----|----------|--------|-----|-------|----------------------|-------|--------|
| | ESKS | 20 | 21.0 | Z-LP | | | | | |
| | ESS | 38 | 50.0 | Z-LP | | | | | |
| | LM | 13 | 24.5 | Z-LP | | | | | |
| 21 | EPP | 14 | 04 35.3 | Z-CPLP | 2.0 | 11860 | GS H0 13 45 54.0 | 16.8N | 122.4E |
| | LM | 14 | 44 | Z-LP | | | LUZON FILIPINAS | | |
| 22 | IPG | 16 | 21 21.7 | Z-CP | 0.5 | 00056 | REG MTE | | |
| | ISG | | 21 27.0 | Z-CP | | | | | |
| 22 | EPKP | 17 | 36 46.7 | Z-CPLP | 1.3 | 18930 | GS H0 17 16 40.3 | 33.8S | 179.7W |
| | EPKP2 | | 38 14.0 | Z-LP | | | SULFL KERMADEC | | |
| | EFP | | 41 46.0 | Z-LP | | | | | |
| 23 | EP | 07 | 07 45.7 | Z-CP | 0.9 | 07264 | GS H0 06 57 03.7 | 42.0N | 83.4E |
| | | | | | | | NORTE SINHIANG CHINA | | |
| 23 | EP | 13 | 57 20.2 | Z-CP | 1.3 | 09198 | GS H0 13 44 54.6 | 54.3N | 162.4W |
| | | | | | | | ALASKA | | |
| 24 | EPKP2 | 06 | 42 45.3 | Z-CPLP | 2.0 | 16647 | GS H0 06 22 51.3 | 13.3S | 173.2W |
| | LM | 06 | 46.0 | Z-LP | | | ILHAS TONGA GRAU IV | | |
| 26 | ISN | 21 | 28 55.6 | E-CP | | 00527 | SP H0 21 27 09 | 35.7W | 10.3W |
| 28 | EP | 01 | 55 20.2 | Z-LP | | 04624 | GS H0 01 47 32.7 | 1.2S | 14.0W |
| | LM | 02 | 13 1 | | | | NORTE ILH ASCENSAO | | |
| 29 | IPKP | 11 | 35 19.0C | Z-CPLP | 1.3 | 15912 | GS H0 11 15 45.3 | 8.1S | 155.5E |
| | IPP | | 38 40.0 | Z-LP | | | ILHAS SALOMAO | | |
| | IPPP | | 41 53.0 | Z-LP | | | | | |
| | L | 12 | 18.0 | Z-LP | | | | | |
| | M | 12 | 35.5 | Z-LP | | | | | |

| DIA | FASE | HORA-TMG | CMP-APAR | T(S) | DIST-KM | REFERENCIAS |
|-----|--------------------------|---|----------------------------|------|---------|---|
| 04 | EP | 13 32 23.3 | Z-CP | 1.0 | 08169 | GS H0 13 20 52.5 12.4N 87.3W PR0X COSTA NICARAGUA |
| 05 | EPN IPG ESN ISG | 01 46 41.7 47 00.7 47 50.7 48 06.7 | Z-CP Z-CP Z-E Z-E | 0.7 | 00543 | IS H0 01 45 25.4 37.2N 3.5W ALCALA REAL GRANADA |
| 06 | EPKP2 | 11 45 37.5 | Z-CPLP | 11.3 | 15984 | GS H0 11 26 12.2 7.1S 155.8E ILHAS SALOMAO |
| 07 | EPKP | 02 04 54 | Z-CPLP | 1.3 | 16847 | GS H0 01 45 09.3 12.4S 166.3E ILHAS SANTA CRUZ |
| 07 | EP LM | 07 19 32.7 07 47.5 | Z-CPLP Z-LP | | 08052 | GS H0 07 08 05.6 8.6N 82.8W FRONT PANAMA-COSTA RICA |
| 07 | EPG ISG | 08 41 24.3 41 36.2 | Z-CP Z-CP | 0.2 | 00101 | REG MTE |
| 08 | IP | 07 11 15.6C | Z-CPLP | 0.9 | 07748 | GS H0 07 00 06.3 6.9N 77.8W PR0X COSTA COLOMBIA |
| 08 | IPKP | 13 18 33.1D | Z-CPLP | 1.0 | 16539 | GS H0 12 58 45.0 10.6S 161.3E ILHAS SALOMAO |
| 08 | IPG ISG | 16 31 34.3D 31 37.6 | Z-CP N-CP | 0.2 | 00030 | REG MTE |
| 10 | EPKP | 18 46 44.0 | Z-LP | | 17620 | GS H0 18 27 09.6 20.7S 178.4W ILHAS FIJI |
| 11 | EPKP EPP LM | 02 02 35.0 07 01.0 03 07.6 | Z-CPLP Z-LP Z-LP | 1.3 | 17686 | GS H0 01 42 47.5 17.6S 174.4W ILHAS TONGA GRAU III |
| 12 | EPKP | 00 27 20.7 | Z-CPLP | 1.0 | 15894 | GS H0 00 07 51.8 6.4S 155.0E ILHAS SALOMAO |
| 14 | EIP | 04 32 18.0 | Z-CPLP | 1.0 | 06252 | GS H0 04 22 49.7 10.9N 62.4W ILHAS WINDWARD GRAU V |
| 14 | EP | 19 14 44 | Z-CPLP | 1.5 | 07000 | GS H0 19 04 20.3 27.7S 12.7W CRISTA ATLANTICO SUL |
| 15 | EP | 20 35 40.0 | Z-CPLP | 1.3 | 08590 | GS H0 20 33 44.1 2.8N 84.3W PR0X COSTA AMERICA CENTRAL |
| 15 | IP | 21 15 57.7D | Z-CPLP | 1.0 | 02173 | GS H0 21 10 32.5 38.8N 16.9E SUL DE ITALIA |
| 18 | EP ES | 09 33 09.0 38 22.0 | Z-CPLP Z-LP | 1.1 | 03645 | GS H0 09 27 40.0 33.2N 23.4E GRECIA |
| 18 | EP | 12 12 47.0 | Z-CPLP | 2.3 | 10180 | GS H0 11 59 41.2 46.6N 153.7E ILHAS KURILHAS |

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| 19 | IPN | 01 23 44.00 | Z-CP | 0.3 | 00434 | TN | H0 01 22 44 | 36.6N | 6.5W |
| | IPG | 23 54.4 | Z-CP | | | | OCEANO ATLANTICO | | |
| | ISN | 24 31.0 | E-CP | | | | | | |
| | ISG | 25 01.0 | N-CP | | | | | | |
| 19 | EP | 06 24 44 | Z-LP | | 13880 | GS | H0 06 08 55.2 | 11.1S | 118.5E |
| | EPKP | 06 27 55 | Z-CPLP | 1.3 | | | SUL DE SIMBAWA AUSTRALIA | | |
| | I | 28 09 | Z-CPLP | | | | DESTRUIDOR 7.9MSZ 7.0MB | | |
| | IPP | 29 46 | Z-CPLP | | | | VITIMAS ALDEIAS ARRAZADAS | | |
| | IPPP | 32 30 | Z-CPLP | | | | TSUNAMINI 6-10 METROS | | |
| | ISKS | 35 04 | Z-CPLP | | | | | | |
| | ISP | 39 39 | Z-LP | | | | | | |
| | ISS | 46 35 | Z-LP | | | | | | |
| | L | 07 05 | Z-LP | | | | | | |
| 19 | EP | 18 08 02.3 | Z-CP | 1.7 | 08677 | GS | H0 17 55 00.1 | 37.1N | 116.1W |
| | | | | | | | NEVADA DO SUL USA 5.6MB | | |
| | | | | | | | EXPLOSAO SUBTERRANEA TN | | |
| 20 | EP | 02 57 31.6 | Z-CPLP | 1.9 | 07974 | GS | H0 02 46 11.8 | 16.6N | 86.8W |
| | LM | 03 21.0 | Z-LP | | | | MAR DAS CARAIBAS | | |
| 20 | EP | 04 03 05.0 | Z-CPLP | 1.3 | 07815 | GS | H0 03 51 54.7 | 16.7N | 86.6W |
| | LM | 04 21.0 | Z-LP | | | | MAR DAS CARAIBAS | | |
| 20 | EPKP | 12 41 38.7 | Z-CPLP | 0.7 | 16864 | GS | H0 12 22 11.1 | 12.4S | 167.1E |
| | | | | | | | ILHAS SANTA CRUZ | | |
| 20 | EPP | 19 37 35 | Z-LP | | 13930 | GS | H0 19 16 32.7 | 11.0S | 119.4E |
| | LM | 20 44 | Z-LP | | | | ILHAS SUMBA INDONESIA | | |
| 24 | ESN | 11 38 14 | N-CP | | | | REG MTE | | |
| 25 | EPKP | 18 24 11.3 | Z-CPLP | 1.5 | 13918 | GS | H0 18 05 10.8 | 10.7S | 119.3E |
| | | | | | | | ILHAS DE SIMBA | | |
| 26 | EP | 20 03 54.0 | Z-LP | | 11103 | GS | H0 19 50 01.4 | 59.4S | 20.5W |
| | EPPP | 08 52.8 | Z-LP | | | | ATLANTICO SUL | | |
| | ES | 15 04.0 | Z-LP | | | | | | |
| | LM | 20 32.0 | Z-LP | | | | | | |
| 27 | EPKP | 07 31 32 | Z-CPLP | 1.7 | 14188 | GS | H0 07 12 22.5 | 8.1S | 125.3E |
| | EPP | 33 12 | Z-LP | | | | TIMOR 6.8MSZ | | |
| | LM | 08 32 | Z-LP | | | | VITIMAS | | |
| 28 | EP | 09 48 24.9 | Z-CP | 0.7 | 01446 | GS | H0 09 45 14.5 | 38.2N | 8.2E |
| | | | | | | | MEDITERRANEO OCIDENTAL | | |
| 29 | EPN | 01 56 14.0 | Z-CP | | 00254 | TN | H0 01 55 34 | 42.5N | 8.5W |
| | ISN | 56 41.7 | E-CP | | | | OCEANO ATLANTICO | | |
| | ISG | 56 45.6 | E-CP | | | | | | |

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| 29 EPF L | 14 42 10.2 15 22.0 | Z=CPLP Z=LP | 11616 | GS HØ 14 23 40.5 17.4N 119.9E ILHAS FILIPINAS |
| 29 EP | 21 12 46.7 | Z=CPLP 0.8 | 09690 | GS HØ 20 59 59.2 51.6N 173.9W ILHAS ALEUTAS GRAU II |
| 30 EP | 15 25 14.7 | Z=CPLP 1.1 | 09715 | GS HØ 15 12 27.6 51.4N 173.8W ILHAS ALEUTAS GRAU II |
| 31 IP I ES LM | 00 53 03.6D 53 16.0 01 02 08.0 01 15.0 | Z=CPLP 1.2 Z=CPLP Z=LP Z=LP | 07595 | GS HØ 00 42 05.4 7.3N 76.3W NORTE DE COLOMBIA VITIMAS |
| 31 EP | 01 29 28.3 | Z=CPLP | 07586 | GS HØ 01 18 35.1 7.4N 76.2W NORTE DE COLOMBIA |
| 31 EPN ISN | 20 46 58.6 47 19.6 | Z=CP NE=CP | 00170 | PRØXIMO REG MTE PTØ |

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|----|-------------------|----------------------------------|------------------------|-----|-------|--|
| 12 | EPN ESN ISG | 22 22 02.4 23 11.3 23 51.7 | Z=CP N=CP E=CP | 0.4 | 00695 | GS H0 22 20 28.9 43.1N 1.0W PIRINEUS GRAU VI |
| 13 | EPKP2 I LM | 00 41 40 41 47 01 43 | Z-LP Z/LP Z-LP | | 16866 | GS H0 00 21 52.6 15.4S 173.3W ILHA DE TONGA GRAU III |
| 13 | EP | 18 47 32.0 | Z=CPLP | 1.3 | 05690 | GS H0 18 38 28.8 15.5N 60.4W ILHAS LEENARD |
| 16 | EP ES L | 23 52 05.6 55 04.0 23 57.3 | Z=CPLP Z-LP Z-LP | 1.2 | 01844 | GS H0 23 48 08.4 46.3N 12.9E AUSTRIA GRAU VI E VII ESTRAGOS 5.1 MB |
| 17 | EPKP LM | 05 42 24 06 38.5 | Z-LP Z-LP | | 13511 | GS H0 05 23 30.2 11.7N 143.1E SUL ILHAS MAURICIAS |
| 20 | EP | 16 35 36 | Z=CP | | 09172 | GS H0 16 23 13.3 23.4S 68.3W NORTE DO CHILE GRAU III |
| 21 | EP | 17 52 14 | Z=CPLP | | 09295 | GS H0 17 39 38.8 55.7N 162.3E PROX COSTA DO KAMCHATCA |
| 21 | IP IPP | 21 14 05.0D 15 08.1 | Z=CPLP | 0.7 | 09600 | GS H0 21 01 44.0 51.8N 155.2E NORDESTE ILHAS KURILHAS |
| 23 | EP | 03 02 54 | Z=CPLP | 0.9 | 02386 | GS H0 02 58 01.2 41.5N 20.1E ALBANIA GRAU VII |
| 23 | EPP | 05 18 45 | Z=CP | 1.8 | 13869 | GS H0 05 57 55.6 11.2S 118.2E MAR TIMOR |
| 29 | EPN ISN | 06 31 07.3 35 53.6 | Z=CP E=CP | | 00436 | IN H0 06 30 04 36.8N 10.9W ATLANTICO SUL PORTUGAL |
| 30 | EP | 07 21 50 | Z=CP | | 09186 | GS H0 07 10 25.3 11.2N 85.8W NICARAGUA ESTRAGOS FRACOS |

| DIA | FASE | HORA-TMG | COMP-APAR | T(S) | DIST-KM | REFERENCIAS |
|-----|-----------------------|---|--------------------------------|------|---------|---|
| 01 | IP | 03 08 11.30 | Z-CPLP | | 04898 | GS H0 02 59 57.5 73.4N 54.6E NOVA ZEMBLA URSS 5.7MB EXPL0SA0 SUBTERRANEA TN |
| 01 | IP I. | 17 48 07.80 48 13.6 | Z-CPLP Z-CPLP | | 07583 | GS H0 17 37 06.8 7.4N 76.3W COLOMBIA DO NORTE |
| 02 | EPKP | 10 55 29.2 | Z-CPLP | | 13998 | GS H0 10 36 28.3 11.4S 119.2E SUL ILHA DE SUMBA |
| 04 | EPKP EPP LM | 09 08 29 10 07 10 12 | Z CPLP Z-LP Z-LP | 1.5 | 16775 | GS H0 08 48 39.2 13.7S 166.7E NOVAS HEBRIDAS |
| 04 | EP LM | 15 53 49.0 16 28.5 | Z-CPLP Z-LP | 0.9 | 09811 | GS H0 15 40 57.3 51.2N 178.4E ILHAS ALEUTAS GRAU III. |
| 04 | EP | 17 23 22 | Z-CPLP | 0.8 | 09824 | GS H0 17 10 30.6 51.1N 178.3E ILHAS ALEUTAS GRAU II |
| 04 | EP LM | 17 37 38.3 18 02 | Z-CPLP Z-LP | 1.0 | 09821 | GS H0 17 24 42.8 51.1N 178.0E ILHAS ALEUTAS |
| 04 | EP | 23 33 36.3 | Z-CPLP | 0.7 | 09788 | GS H0 23 20 44.9 51.2N 178.2E ILHAS ALEUTAS. |
| 05 | EP | 03 13 01 | Z-CP | 0.7 | 06531 | GS H0 03 02 57.8 50.9N 78.9E KAZAQUISTA0 URSS 5.9MB EXPL0SA0 SUBTERRANEA TN |
| 05 | EPN ESN ISG | 05 30 44 31 07.1 31 12.3 | Z-CP N-CP N-CP | | 00187 | PR0X REG PT0 MTE |
| 06 | EPKP2 | 04 53 12 | Z-CPLP | | 16508 | GS H0 04 33 27.9 10.5S 161.0E ILHAS SALOMAO |
| 07 | EPN ESN ISG | 22 52 23.0 53 42.7 54 21.7 | Z-CP Z-CP Z-CP | | 00753 | GS H0 22 50 35.7 43.3N 0.3W PIRINEUS |
| 10 | EPP | 06 37 41 | Z-CPLP | | 02812 | GS H0 06 31 41.8 34.9N 23.0E ILHA DE CRETA |
| 11 | EPKP2 | 14 32 44 | Z-CPLP | | 16861 | GS H0 14 12 29.9 15.4S 173.3W ILHAS DE TONGA |
| 11 | EP EPP ES LM | 23 24 47.0 25 44.8 29 25.0 23 31.5 | Z-CPLP Z-LP Z-LP Z-LP | 0.7 | 02808 | GS H0 23 19 23.7 35.0N 23.0E ILHA DE CRETA |
| 12 | EP | 14 27 24 8 | Z-CPLP | | 05916 | GS H0 14 18 06.6 12.8S 14.7W CRISTA ATLANTICO SUL |

| DIA | FASE | HORA-TMG | COMP-APAR | T(S) | DIST-KM | REFERENCIAS |
|-----|--|--|--|------|---------|--|
| 04 | IP | 13 54 23.0C | Z-CPLP | 1.3 | 06214 | GS H0 13 44 52.0 10.4N 62.3W PROX COSTA VENEZUELA |
| 05 | EP EPP ES LM | 05 41 07.3 42 07.0 46 22.0 05 50.0 | Z-CPLP Z-LP Z-LP Z-LP | 0.9 | 03494 | GS H0 05 34 46.8 40.9N 33.4E TURQUIA |
| 08 | EP I | 03 15 50 16 14.0 | Z-CP Z-CP | | 08730 | GS H0 03 03 51.5 9.5S 74.7W PERU |
| 10 | EPN ESN | 06 07 46.5 09 08.8 | Z-CP N-CP | 0.5 | 00788 | MTF E PT0 REGISTRARAM |
| 10 | EPN IPG ISN | 10 23 15.1 23 34.7 23 57.6 | Z-CP Z-CP NE-CP | 0.3 | 00368 | IS H0 10 22 26.2 37.4N 6.2W AZNALCULLA-SEVILHA |
| 10 | EIPKIKP12 EIPKP2 EIPP EISKKS EISPP EISS L M | 13 54.0 14 44 18 26 22 00 31 20 37 10 13 13 13 26 | Z-CPLP Z-LP Z-LP Z-LP Z-LP Z-LP Z-LP Z-LP | 2.0 | 17984 | GS H0 11 53 53.6 25.9S 175.4W SUL DA ILHA DE TONGA |
| 13 | IP | 23 28 52.1 | Z-CPLP | 0.9 | 09200 | GS H0 23 16 27.2 12.2S 77.9W COST DO PERU |
| 14 | IPKP | 05 15 29.3D | Z-CPLP | 1.3 | 16883 | GS H0 04 55 34.8 15.7S 173.0W ILHAS DE TONGA |
| 14 | EDKP EIPKP2 | 12 48 54 49 19 | Z-CPLP Z-CP | | 17194 | GS H0 12 29 13.8 15.4S 167.4E NOVAS HEBRIDAS |
| 16 | IPN IPB ISN ISG | 07 45 53.7D 46 00.0 46 41.9 46 58.4 | Z-CP Z-CP N-CP E-CP | | 00440 | IN H0 07 44 52 36.5N 10.2N OCEANO ATLANTICO SW DE PORTUGAL |
| 17 | EPKP EPP EPPP ESS LM | 17 46 44.6 51 46 18 00 52 12 00 18 52 | Z-CPLP Z-LP Z-LP Z-LP Z-LP | 1.8 | 18608 | GS H0 17 26 40.4 27.9S 173.1E NORTE DA NOVA ZELANDIA |
| 18 | IPN ISN ISG | 09 38 36.5C 39 32.7 40 03.6 | Z-CP NE-CP E-CP | 0.4 | 00533 | GS H0 09 37 25 37.0N 13.0W ATLANTICO NORTE |

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|----|------|-------------|--------|-----|-------|--------------------------|--------|
| 19 | IP | 06 44 26.1C | Z-CP | 0.7 | 05861 | GS H0 06 35 10.9 27.8N | 54.9E |
| | | | | | | SUL DO IRAB | |
| 19 | ESN | 21 48 11.0 | Z-CP | | 00477 | SP H0 21 46 14 36.0N | 9.5W |
| | | | | | | OCEANO ATLANTICO | |
| 22 | EP | 10 07 36.0 | Z-CPLP | 0.7 | 02824 | GS H0 10 02 19.1 34.9N | 23.2E |
| | | | | | | ILHA DE CRETA | |
| 22 | EP | 18 06 08.8 | Z-CPLP | 1.0 | 09334 | GS H0 17 54 45.9 28.0S | 62.9W |
| | | | | | | SANTIAGO ARGENTINA | |
| 22 | IP | 18 08 48.8D | Z-CPLP | 1.7 | 09093 | GS H0 17 57 17.4 27.9S | 62.9W |
| | IPP | 11 01.3C | Z-CPLP | 0.8 | | ARGENTINA | |
| 24 | EP | 06 03 05 | Z-CP | 1.3 | 02203 | GS H0 05 58 27.8 52.2N | 31.6W |
| | | | | | | CRISTA DO ATLANTICO | |
| 24 | EPN | 13 06 50.0 | Z-CP | 0.2 | 00166 | UC H0 13 06 22 | |
| | ISN | 07 09.0 | Z-NE | | | | |
| 24 | EPN | 23 36 15 | Z-CP | | 00211 | REGISTADO EM MTE E PTO | |
| | ESN | 36 40 | NE-CP | | | | |
| | ISG | 36 45.6 | E-CP | | | | |
| 25 | EPB | 18 39 13.6 | Z-CP | | 00448 | IN H0 18 37 58.5 36.3N | 9.7W |
| | EPN | 39 51.3 | Z-CP | | | ATLANTICO NORTE | |
| | | | | | | SW DE PORTUGAL | |
| 27 | EP | 07 05 31 | Z-CP | 1.0 | 03181 | GS H0 06 59 27.3 35.5N | 27.6E |
| | | | | | | ILHAS DO DODECANESO | |
| 29 | EIP | 03 16 59.6 | Z-CP | 0.7 | 06492 | GS H0 03 06 57.7 49.8N | 78.1E |
| | | | | | | ESTE DE KAZIQUISTAO URSS | |
| | | | | | | EXPLOSAO SUBTERRANEA | |
| 30 | EPKP | 13 13 12 | Z-CP | | 17131 | GS H0 12 53 22.8 14.9S | 166.9E |
| | | | | | | NOVAS HEBRIDAS | |

| DIA | FASE | HORA-TMG | COMP-APAR | T(S) | DIST-KM | REFERENCIAS |
|-----|--|--|--|------|---------|--|
| 01 | EPN ISN | 05 41 54.4 42 25.6 | Z-CP Z-CP | | 00278 | REGISTADO EM MTE |
| 03 | EP | 02 28 15.6 | Z-CP | 0.8 | 02700 | GS H0 02 22 54.9 42.1N 23.9E BULGARIA |
| 04 | EP ES M | 10 05 43 16 40 10 37 | Z-CPLP Z-LP Z-LP | 1.3 | 09711 | GS H0 09 52 55.7 51.7N 175.9W ILHAS ANDREANOF |
| 05 | EPKP | 06 22 53.9 | Z-CPLP | | 16840 | GS H0 06 02 57.6 10.1S 161.0E ILHAS SALOMAO |
| 07 | EPKP | 23 16 44.4 | Z-CPLP | 1.3 | 16001 | GS H0 22 57 15.8 7.2S 156.1E ILHAS SALOMAO |
| 09 | EP | 22 12 01 | Z-CPLP | 1.1 | 08679 | GS H0 22 00 0.1A 37.1N 116.0W SUL DA NEVADA USA EXPLOSAO SUBTERRANEA |
| 13 | EP | 08 54 24.2 | Z-CPLP | 0.9 | 08800 | GS H0 08 42 21.4 9.4S 75.7W PERU |
| 13 | IPN ISN ISG | 20 07 39.3C 07 55.3 07 59.6 | Z-CP Z-CP Z-CP | 0.1 | 00130 | UC H0 20 07 16 41.0N 9.5W OCEANO ATLANTICO |
| 17 | IPN ISN | 15 03 45.1C 04 20.5 | Z-CP E-CP | 0.3 | 00460 | GS H0 15 02 41.8 43.0N 12.5W ATLANTICO NORTE |
| 18 | EP LM | 05 31 51.5 06 04.5 | Z-CPLP Z-LP | 0.5 | 18336 | GS H0 05 20 11.3 32.7N 88.4E TIBET |
| 22 | EIPKP | 16 16 22.9 | Z-CPLP | 1.0 | 14279 | GS H0 15 56 44.1 10.2N 161.1E ILHAS SALOMAO |
| 23 | IP I EIPP EIPPP EISKS EISPP L M | 09 39 24.0D 39 54.0 43 10 44 30 50 26 52 10 10 05 10 17 | Z-CPLP Z-LP Z-LP Z-LP Z-LP Z-LP Z-LP Z-LP | 1.0 | 09983 | GS H0 09 26 24.7 31.0S 67.8W PROV S. JOAO ARGENTINA DESTRUIDOR DEZENAS DE MOR TOS E CENTENAS DE FERIDOS |
| 23 | EP | 17 08 01 | Z-CPLP | 0.9 | 09595 | GS H0 16 55 20.4 52.2N 171.6W ILHAS FOX |
| 26 | EP | 09 34 02 | Z-CPLP | 0.3 | 15493 | GS H0 09 14 51.2 15.3S 174.4E ILHA DE TONGA |
| 28 | IP | 03 04 01.0C | Z-CPLP | 0.8 | 03170 | GS H0 02 59 10.8 36.0N 27.8E ILHAS DO DODECANESO |

| | | | | |
|-------|------------|------------|-------|------------------------------|
| 28 LM | 07 21 | Z-LP | 09990 | GS HB 06 31 29.3 31.4S 69.4W |
| | | | | PROV S. JBAO ARGENTINA |
| 30 EP | 04 17 01.6 | Z-CPLP 1.0 | 06536 | GS HB 04 06 57.5 49.9N 78.9E |
| | | | | KAZAQUISTAO URSS |
| | | | | EXPLORAO SUBTERRANEA |

| DIA | FASE | HORA-TMG | COMP-APAR | T(S) | DIST-KM | REFERENCIAS |
|-----|-----------------------------------|---|--|------|---------|---|
| 11 | EP | 16 32 29.8 | Z-CPLP | 1.3 | 06875 | GS H0 16 22 08.6 9.5N 69.5W VENEZUELA |
| 13 | IP EIPP ES LM | 01 22 40.5C 24 18.0 29 32.6 01 34.5 | Z-CPLP Z-CPLP Z-LP Z-LP | 0.7 | 05102 | GS H0 01 14 18.6 17.4N 54.8W ATLANTICO NORTE |
| 14 | EPG ISG | 17 28 18 28 23 | Z-CP E-CP | | 00044 | UC SISMO LOCAL |
| 15 | EP | 23 31 03 | Z-CPLP | 1.0 | 06660 | GS H0 23 20 53.6 4.8S 34.9E TANZANTA AFRICA |
| 16 | IPG ISG | 04 31 07.2C 31 20.9 | Z-CP E-CP | 0.3 | 00113 | IN H0 04 30 46 39.6N 9.5W PORTUGAL |
| 18 | EIP | 16 57 43.6 | Z-CPLP | 0.7 | 06971 | GS H0 16 47 17.1 39.8N 77.3E SINGUIANE CHINA |
| 19 | IP EIPP ES M | 23 43 46.0D 45 50.0 51 22.0 00 10 | Z-CPLP Z-CPLP Z-LP Z-LP | 0.7 | 05819 | GS H0 23 34 34.2 30.9N 56.5E IRAO DESTRUIDOR 584 MORTOS 1000 FERIDOS ALDEIAS DESAPARICI DAS |
| 20 | EP | 09 03 22 | Z-CPLP | 1.0 | 09957 | GS H0 08 50 38.2 48.6N 153.0E ILHAS KURILHAS |
| 20 | EP | 20 08 20 | Z-CPLP | 0.8 | 02066 | GS H0 20 04 16.3 38.8N 15.6E SICILIA |
| 21 | EPP ESS LM | 01 19 33 34 28 01 59 | Z-CPLP Z-LP Z-LP | 0.7 | 12114 | GS H0 01 00 32.8 25.5N 143.1E ILHAS VULCANO |
| 21 | EP | 16 52 20 | Z-CPLP | 0.9 | 09580 | GS H0 16 39 33.0 52.9N 159.8E ESTE DE KAMCHATKA |
| 28 | IP EIPP IS ESS L M | 02 54 18.0D 56 06.0 03 01 16.2 04 28.8 03 09.8 03 14.0 | Z-CPLP Z-LP Z-LP Z-LP Z-LP Z-LP | 1.0 | 05339 | GS H0 02 15 36.7 16.6N 40.3E MAR VERMELHO |
| 30 | IP | 17 39 03.0D | Z-CPLP | 0.5 | 02019 | GS H0 17 35 08.9 49.0N 15.4E SUL DE ITALIA |
| 30 | EP | 18 12 06.7 | Z-CPLP | 0.7 | 02019 | GS H0 18 08 51.3 39.9N 15.4E SUL DE ITALIA |
| 31 | EP ES | 08 05 14.9 15 26 | Z-CPLP Z-LP | 1.1 | 08960 | GS H0 07 53 18.0 15.3S 71.7W SUL DO PERU |

ANALISADO E COMPILADO POR:

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OBS. GEOF. M. LEITÃO