

State of Israel  
 Ministry of Development  
 Geological Survey  
 Division of Quaternary & Recent Geology  
 Seismological Section  
JERUSALEM

Address:

Seismological Section  
 Generali Building  
Jerusalem, Israel.



JERUSALEM PROVISIONAL READINGS  
 BULLETIN No.80  
January 1961

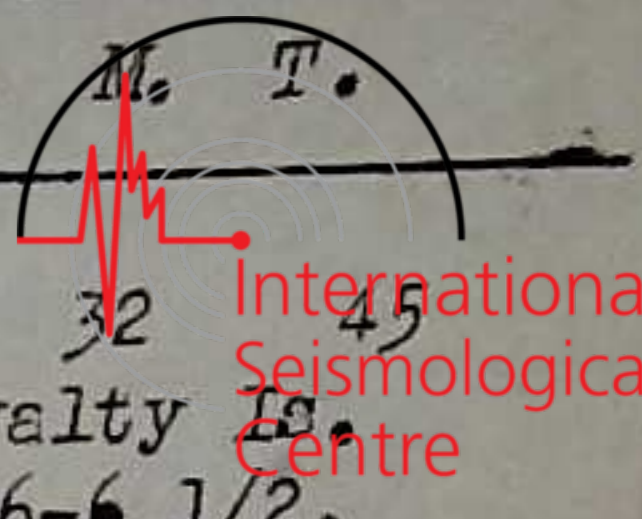
| No. | Date | Phase   | G. | M. | T. | No. | Date | Phase  | G. | M. | T.             |
|-----|------|---|----|----|----|-----|------|--|----|----|----------------|
| 1   | 2    | iPKP<br>iPP<br>12.4S; 166.4E. Santa Cruz Is.<br>reg.<br>h = 161 km. M = 6 1/2-6 3/4 | 10 | 30 | 58 | 12  | 7    | eIP<br>eIS<br>37.7N; 21.1E. Near coast<br>of Greece.                             | 15 | 56 | 04<br>17.5     |
| 2   | 3    | iP<br>Small, local  | 14 | 55 | 41 | 13  |      | i(P)   | 21 | 48 | 55             |
| 3   |      |   |    |    |    | 14  | 8    | e<br>i   | 00 | 03 | 51<br>15.5     |
| 4   | 5    | iP<br>iS<br>51.6N; 176.3W. Adrean of Is.<br>Aleutian Is., M = 6 3/4                 | 23 | 47 | 27 | 15  |      | eP<br>4.1N; 129.3E. Halmahera reg.<br>h = 106 km.                                | 01 | 28 | 28             |
|     |      |   |    |    |    | 16  |      | iP<br>3.5N; 129.6E. Halmahera reg.<br>h = 117 km.                                | 03 | 09 | 31             |
| 5   |      | eIPP<br>eISKS<br>4.1S; 143E, New Guinea.<br>h=108 km. M = 6 3/4-7.                  | 16 | 12 | 46 | 17  | 9    | iP<br>Local, Small   | 14 | 25 | 26             |
|     |      |   |    |    |    | 18  | 10   | iP<br>iPP<br>ePPP  | 14 | 34 | 45<br>58<br>53 |
| 6   |      | eIPKP<br>eIPKP<br>eIPP<br>21.2S; 169.3E. Loyalty Is.<br>reg. h=123 km. M=6 3/4 - 7. | 18 | 17 | 17 |     |      | eIS<br>49.9N; 156.2E. Kurile Is.<br>M = 6 1/4 - 6 3/4                            | 45 | 25 |                |
|     |      |   |    |    |    | 19  | 11   | eP<br>52.3N; 170.7W. Fox Is.<br>Aleutian Is.                                     | 12 | 11 | 26             |
| 7   |      | eIPKP<br>eIPP<br>21.0S; 169.1E. Loyalty Is.<br>h = 124 km. M = 6 3/4                | 18 | 34 | 02 |     |      | iP<br>iS<br>Small.   | 15 | 30 | 32<br>45       |
|     |      |   |    |    |    | 20  | 13   |  |    |    |                |
| 8   | 6    | iPKP<br>32.4S; 178.6W. Kermadec Is.<br>reg. h = 166 km                              | 00 | 17 | 11 |     |      | iP<br>46.5S; 34.1E. Near Fries<br>Edward Is.                                     | 19 | 30 | 43             |
| 9   |      | eIP<br>42.5N; 143.4E. Hokkaido<br>Japan.  | 01 | 32 | 49 |     |      | eP<br>ePP  | 16 | 52 | 11<br>58       |
| 10  |      | iP<br>iS<br>Small.  | 12 | 28 | 50 |     |      | 53.9N; 163.7W.<br>Unimak Is. reg. M = 5 3/4                                      |    |    |                |
|     |      |   |    |    |    | 23  | 16   | iP<br>iPP  | 07 | 32 | 38<br>52       |
| 11  | 7    | iP<br>iS<br>35.9N; 27.0E. Dodecanese Is.<br>h = 127 km.                             | 10 | 32 | 51 |     |      | 36.0N; 141.1E. Near east coast<br>of Honshu, Japan<br>h = 131 km. M = 6 3/4 - 7. |    |    |                |



| No. | Date | Phase   | G. | M. | T. | No. | Date | Phase   | G. | M. | T.   |
|-----|------|---|----|----|----|-----|------|---|----|----|------|
| 24  | 16   | iP<br>ipP<br>iPP<br>35.7N; 140.6E. Near east coast of Honshu, Japan.<br>h = 157 km. | 11 | 32 | 04 | 38  | 26   | eiPKP<br>21.4S; 169.5E Loyalty Is.<br>h = 119km. M = 6-6 1/2.           | 16 | 32 | 45   |
|     |      |   |    |    |    | 39  | 27   | iP<br>45.4N; 149.3E. Kurile Is.   | 20 | 19 | 24   |
| 25  |      | iP<br>iPP<br>36.2N; 141.7E Honshu, Japan<br>h = 105 km, M = 6 1/2-6 3/4             | 12 | 24 | 54 | 40  | 28   | eP<br>eS<br>39.3N; 22.0E; Northern Greece                               | 07 | 21 | 2(3) |
|     |      |   |    |    |    |     |      |   |    | 23 | 3(8) |
| 26  |      | iP<br>iPP<br>36.3N; 141.2E; Near east of Honshu, Japan<br>h = 127 km.               | 14 | 17 | 24 | 41  |      | iP<br>iS  | 10 | 17 | 32   |
|     |      |   |    |    |    | 42  |      | i(P)  | 11 | 26 | 45   |
|     |      |   |    |    |    | 43  |      | iP<br>iS  | 14 | 16 | 21   |
|     |      |   |    |    |    |     |      |   |    | 17 | 45   |
| 27  |      | iP<br>iPP<br>36.4N; 140.6E. Near East coast of Honshu, Japan<br>h = 147 km.         | 15 | 53 | 38 | 44  |      | i(P)  | 14 | 25 | 55   |
|     |      |   |    |    |    | 45  |      | ePKP<br>ePP<br>21.3S; 169.5E. Loyalty Is.<br>reg. M = 6 - 6 1/4         | 20 | 02 | 21   |
|     |      |   |    |    |    |     |      |   |    | 05 | 09   |
| 28  |      | iP<br>iS<br>Felt at Beyrouth .  | 16 | 06 | 00 | 46  | 31   | iP<br>iPP<br>eS<br>55.8N; 153.9W. Near Kodiak Is. Alaska, M = 6 - 6 1/2 | 01 | 01 | 48   |
|     |      |   |    |    |    |     |      |   |    | 05 | 23   |
| 29  |      | eiP   | 16 | 15 | 43 |     |      |   |    | 12 | 53   |
| 30  |      | iP<br>Local.  | 20 | 53 | 16 | 47  |      | eiP<br>iS<br>Small  | 03 | 14 | 45   |
| 31  |      | e(P)  | 21 | 02 | 16 |     |      |   |    | 16 | 14   |
| 32  | 17   | iP<br>iS  | 00 | 36 | 13 |     |      |   |    |    | 42   |
| 33  | 19   | iP<br>49.7N; 155.8E. Kurile Is.<br>M. = 5 1/4 - 6 1/2.                              | 17 | 34 | 46 |     |      |   |    |    |      |
| 34  | 22   | ePKP<br>ePP<br>11.9E; 166.2E. Santa Cruz Is.<br>reg. M = 6 1/4.                     | 03 | 43 | 15 |     |      |   |    |    |      |
|     |      |   |    |    |    |     |      |   |    | 45 | 46   |
|     | 22   | From  | 05 | 00 |    |     |      |   |    |    |      |
|     | 23   | Till  | 08 | 00 |    |     |      |   |    |    |      |
|     |      | Seismometer out of action.  |    |    |    |     |      |   |    |    |      |
| 35  | 23   | e   | 09 | 51 | 45 |     |      |   |    |    |      |
| 36  | 24   | iP<br>iS<br>Small   | 10 | 23 | 14 |     |      |   |    |    |      |
|     |      |   |    |    |    |     |      |   |    | 24 | 13   |
| 37  | 25   | iP<br>49.8N; 156.0E. Kurile Is.   | 19 | 16 | 44 |     |      |   |    |    |      |

Note: Epicentral Data from U.S.C.G.S.

E. Arieh  
Seismological Section





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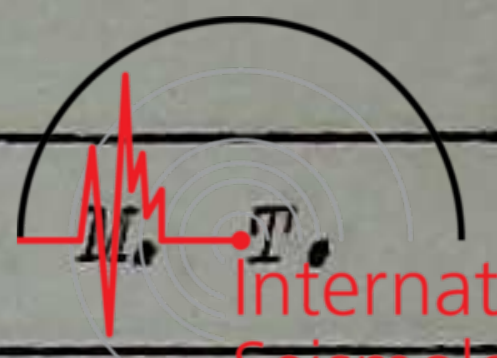
Address:

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Generali Building  
Jerusalem, Israel.

JERUSALEM PROVISIONAL READINGS  
BULLETIN No.81  
February 1961

| No. | Date | Phase   | G. | M. | T.             | No. | Date | Phase  | G.       | M.       | T.    |
|-----|------|---|----|----|----------------|-----|------|--|----------|----------|-------|
| 1   | 2    | iP  | 00 | 54 | 43             | 14  | 7    | iP<br>i(S)   | 03<br>11 | 03<br>14 | 15    |
|     |      | 7.3N; 127.3E. Near S. coast<br>of Mindano Philippine Is.<br>h = 157 km. |    |    |                | 15  |      | iP   | 21       | 14       | 01    |
| 2   | 3    | iP<br>small, local  | 01 | 09 | 40             | 16  | 9    | iPKP<br>eiPP   | 02<br>31 | 28<br>30 | 03    |
| 3   |      | iP<br>iS<br>Small   | 20 | 38 | 35.5<br>12.5   |     |      | 28.2S; 177.4W; Kermadec Is.<br>region. M = 6 1/4 - 6 3/4 |          |          |       |
| 4   | 4    | iP  | 09 | 00 | 53 C           | 17  | 11   | iPKP   | 17       | 05       | 48    |
|     |      | 24.7N; 95.3E. N. Burma. h-162<br>Km                                     |    |    |                |     |      | 19.8S; 176.2W. Fiji Is.<br>h = 261 km.                   |          |          |       |
| 5   |      | iP  | 13 | 01 | 46.5           | 18  |      | iPKP<br>iPKP <sub>2</sub><br>eiPP                        | 21<br>21 | 20<br>00 | 53 C  |
|     |      | 50.3N; 156.4E. Kamchatka  |    |    |                |     |      | ePPP   | 24       | 3(2)     |       |
| 6   |      | iP<br>Small, local  | 13 | 26 | 28             |     |      | 28.2S; 177.5W. Kermadec Is.                              | 27       | 35       |       |
| 7   |      | ePKP  | 15 | 48 | 54             | 19  |      | iP<br>iS   | 22<br>57 | 55<br>03 | 58    |
|     |      | 17.0S; 176.8W. Fiji Is. reg.  |    |    |                | 20  |      | ei   | 23       | 39       | 3(1)  |
| 8   |      | iP<br>ePP   | 19 | 21 | 00<br>35       | 21  | 12   | iPKP   | 01       | 39       | 03    |
|     |      | 24.0N; 122.7E. Off C. of Form.  |    |    |                |     |      | 34.8S; 106.9W. Easter Is.<br>reg.                        |          |          |       |
| 9   | 5    | iP  | 00 | 11 | 16             | 22  |      | eP<br>eiS  | 10<br>36 | 34<br>06 | 1(4)  |
|     |      | 45.3N; 148.2E. Kurile Is.   |    |    |                |     |      | iP   | 22       | 06       | 07.5C |
| 10  |      | eP  | 18 | 03 | 08             |     |      | iPP<br>ePPP  | 09<br>11 | 09<br>43 |       |
|     |      | 38.4S; 78.2E. Indian Ocean  |    |    |                |     |      | 43.7N; 147.7E. Kurile Is.<br>M = 6 3/4 - 7               |          |          |       |
| 11  |      | iP<br>eS  | 19 | 57 | 17<br>18       | 23  |      | iP   | 23       | 38       | 59 C  |
| 11a | 6    | iP<br>ipP   | 12 | 26 | 00<br>25       | 24  |      | 44.0N; 147.7E. Kurile Is.                                |          |          |       |
|     |      | 51.6N; 174.8W. Adrean of Sea<br>Aleutian Is. M = 5 1/4 - 5 1/2          |    |    |                |     |      | iPKP   | 07       | 05       | 16    |
| 12  |      | iP  | 18 | 27 | 51             | 25  | 13   | 17S; 173.7W. Tonga Is.<br>M = 5 3/4 - 6                  |          |          |       |
|     |      | 44.8N; 149.1E. Kurila Is.   |    |    |                |     |      | iP   | 16       | 39       | 48    |
| 13  |      | iPKP<br>i<br>i(PP)  | 22 | 04 | 01<br>27<br>05 | 26  |      | 43.7N; 149.6E. Kurile Is.<br>m = 5 1/2 - 6 1/4.          |          |          |       |





| No. | Date | Phase  | G. | M.             | T.                | No. | Date | Phase  | G.       | M.       | T.         |
|-----|------|--|----|----------------|-------------------|-----|------|--|----------|----------|------------|
| 27  | 14   | iP<br>43.8N; 142.9E. Kurile Is.<br>M = 6 - 6 1/4                                       | 03 | 34             | 29C               | 41  | 23   | e  | 19       | 47       | 5(6)       |
| 28  | 15   | iP<br>43.7N; 147.4E. Kurile Is.<br>M = 6 - 6 1/4.                                      | 10 | 57             | 37C               | 42  |      | eiP<br>eS<br>37.3N; 27.5E. Dodecanese Is.                        | 21       | 47<br>49 | 49<br>17   |
| 29  | 16   | iP<br>iS<br><br>From 14 00<br>Till 14 30<br>Seismograph out of action.                 | 03 | 23             | 02<br>40          | 43  |      | iP<br>Is<br>38.9N; 35.2E. Turkey                                 | 21<br>22 | 58<br>00 | 47<br>22   |
| 30  | 18   | iP<br>i(S)   | 00 | 15<br>16       | 38.5<br>13        | 44  | 24   | iP<br>26.1N; 125.4E. Rynkyn Is.                                  | 03       | 16       | 07 C       |
| 31  |      | iP<br>44N; 147.5E. Kurile Is.  | 01 | 16             | 26C               | 45  |      | iP<br>iS   | 20       | 31       | 11.5<br>36 |
| 32  |      | eP<br>eS   | 04 | 21<br>22       | 13<br>31          | 46  |      | e(P)<br>e  | 22       | 07<br>09 | 41<br>33   |
| 33  | 19   | iP<br>Small, Local.  | 12 | 08             | 41                | 47  | 25   | iP<br>Near.  | 05       | 08       | 14         |
| 34  |      | iP<br>Small, Local.  | 18 | 58             | 55                | 48  |      | iPKP<br>15.4S; 175.8W. Samoa Is.<br>reg.                         | 15       | 21       | 47         |
| 35  | 20   | iP<br>iP?<br>5N; 96E. Near N. coast of<br>Sumatra. h = 139 km.                         | 18 | 57<br>51       | 12C               | 49  | 26   | iPKP<br>32.7S; 111.2W Easter Is.<br>region M = 5 1/2 - 6 3/4.    | 06       | 08       | 33         |
| 36  | 21   | iP<br>iS<br>36.5N; 23.3E. Near S. Coast<br>of Greece.                                  | 03 | 04<br>06       | 32C<br>29         | 50  |      | iP<br>Local, Small.  | 11       | 37       | 40         |
| 37  | 22   | iPKP<br>iPP<br>28.4S; 177.2W. Kermadec Is.<br>reg. M = 5 1/2 - 5 3/4.                  | 22 | 13<br>17       | 17C<br>03         | 51  |      | iP<br>Local, Small.  | 14       | 04       | 52         |
| 38  | 23   | iP<br>iS<br>35N; 27E; Dodecanese Is.   | 03 | 20<br>21       | 55.5<br>37        | 52  |      | iP<br>31.4N; 131.2E. Near coast of<br>Kynshu, Japan, M = 7-7 1/4 | 18       | 22       | 49.5C      |
| 39  |      | iP<br>iS<br>35N; 27.3E. Dodecanese Is.<br>reg.   | 03 | 25<br>26       | 07<br>29          | 53  |      | iP<br>16N; 121.6E. Luzon P. Is.                                  | 21       | 13       | 8.5C       |
| 40  |      | iP<br>eiPP<br>ePPP<br>38.2N; 142.7E. Off East<br>Coast of Honshu, Japan<br>h = 119 km. | 04 | 28<br>31<br>33 | 43.5C<br>56<br>41 | 54  | 27   | iP<br>Small, Local.  | 10       | 58       | 33         |
|     |      |  |    |                |                   | 55  |      | e1(P)  | 21       | 42       | 02         |
|     |      |  |    |                |                   | 56  |      | iP<br>iS<br>36.2N; 26.9E. Aegean Sea.                            | 21       | 56<br>58 | 32C<br>05  |
|     |      |  |    |                |                   | 57  |      | i(P)   | 23       | 13       | 49         |
|     |      |  |    |                |                   | 58  | 28   | eP<br>46.5N; 152.2E. Kurile Is.                                  | 12       | 46       | 03         |
|     |      |  |    |                |                   | 59  |      | iP<br>ei(s)<br>Felt at upper Galilee<br>Intensity 3-4.           | 13       | 06       | 22.5<br>41 |



| No. | Date | Phase    | G. | M.       | T.       | No. | Date | Phase | G. | M. | T. |
|-----|------|----------|----|----------|----------|-----|------|-------|----|----|----|
| 60  | 28   | iP<br>iS | 13 | 15<br>16 | 50<br>09 | 61  | 28   | e     | 15 | 33 | 21 |



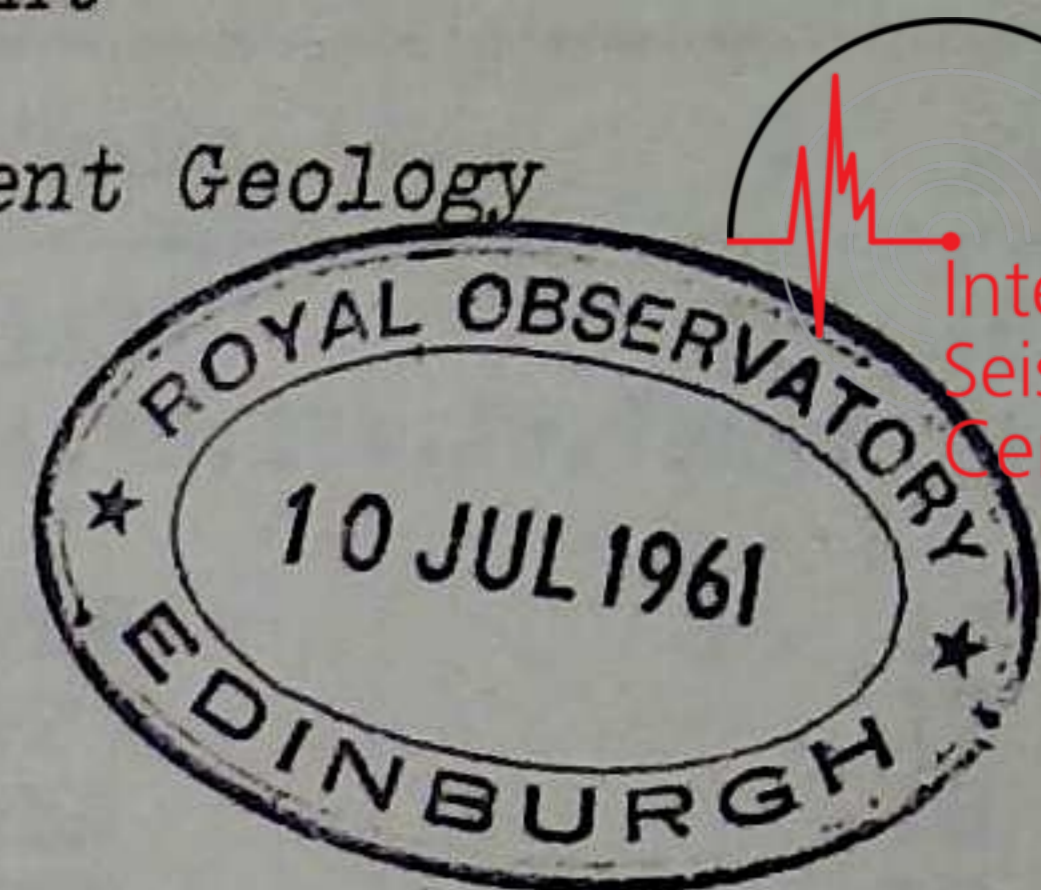
N.B. Epicentre data from U.S.G.S.

E. Arieh

Seismological Section



STATE OF ISRAEL  
Ministry of Development  
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Division of Quaternary and Recent Geology  
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Jerusalem, Israel.

JERUSALEM PROVISIONAL READINGS  
BULLETIN No.82  
March 1961

| No. | Date | Phase                                      | G.                | M. | T.           | No. | Date | Phase   | G. | M. | T.                |
|-----|------|--|-------------------|----|--------------|-----|------|---|----|----|-------------------|
| 1   | 1    | iP   | 14                | 02 | 21           | 14  | 6    | iP<br>iS  | 05 | 11 | 53<br>13 24       |
|     |      |  | small, local      |    |              |     |      |   |    |    |                   |
| 2   | 2    | iP   | 12                | 15 | 49           | 15  |      | iP  | 14 | 14 | 03                |
|     |      |  | very small, local |    |              |     |      |   |    |    |                   |
| 3   |      | eP<br>iS                                   | 16                | 14 | 01<br>43     | 16  | 7    | iPKP  | 10 | 30 | 28 D              |
|     |      |  |                   |    |              |     |      | 28.2S;175.7W.Kermadec Is.<br>reg. M=7-7 1/2                 |    |    |                   |
| 4   | 3    | ePKP                                       | 06                | 45 | 10           | 17  |      | iP  | 19 | 21 | 00                |
|     |      | 22.9S;171.4E,Loyalty Is                    |                   |    |              |     |      | 38.2S;78.1E.Indian Ocean<br>M=6                             |    |    |                   |
|     |      | reg.                                       |                   |    |              |     |      |   |    |    |                   |
| 5   | 4    | e(P)                                       | 16                | 46 | 4(7)         | 18  | 9    | iP<br>iS  | 00 | 09 | 55<br>11 19       |
| 6   |      | iP<br>ipP                                  | 22                | 38 | 27D<br>39    | 19  |      | e(P)<br>e   | 04 | 01 | 43<br>11 15       |
|     |      | 37.8N;141.6E.Near East of<br>Honshu, Japan |                   |    |              |     |      |   |    |    |                   |
| 7   | 5    | eiPKP<br>eiPP                              | 01                | 45 | 23<br>47 32  | 21  |      | e(P)<br>ei(S)   | 22 | 55 | 27<br>56 53       |
|     |      | 10.7S;161.6E.Solomon Is.<br>M=6 1/2        |                   |    |              |     |      |   |    |    |                   |
| 8   |      | eiP<br>iS                                  | 02                | 42 | 11<br>41     | 22  | 11   | iP  | 01 | 44 | 04 C              |
|     |      |  |                   |    |              |     |      | 48.7N;154.6E.Kurile Is.<br>M=6 1/2                          |    |    |                   |
| 9   |      | iP   | 14                | 54 | 00           | 23  |      | iP<br>eiS   | 08 | 45 | 58<br>50 01       |
|     |      | Small, local                               |                   |    |              |     |      | 11.2N;43.3E.British<br>Somaliland                           |    |    |                   |
| 10  |      | e(P)                                       | 18                | 59 | 31           |     |      |   |    |    |                   |
| 11  |      | i(P)<br>i(S)                               | 20                | 34 | 17<br>35     | 24  |      | iP  | 19 | 08 | 37                |
| 12  |      | i(P)<br>i(S)                               | 20                | 35 | 28<br>37 13  | 25  | 12   | eiPKP<br>ipPKP<br>ePP                                       | 23 | 41 | 24<br>45<br>45 20 |
|     |      |  |                   |    |              |     |      | 28.4S;176.0W.Tonga Is.<br>region h=113Km.M=6 1/4 -<br>6 1/2 |    |    |                   |
| 13  |      | iPKP<br>iPKP <sub>2</sub>                  | 21                | 45 | 42D<br>46 30 |     |      |   |    |    |                   |
|     |      | 20.6S;176.1W.Tonga Is.reg.                 |                   |    |              |     |      |   |    |    |                   |



| No. | Date                      | Phase  | G. | M. | T.    | No. | Date | Phase                                     | G. | M. | T.     |
|-----|---------------------------|--|----|----|-------|-----|------|---|----|----|--------|
| 26  | 13                        | e  | 08 | 23 | 42    | 45  | 18   | iPKP                                      | 08 | 46 | 42     |
|     |                           |  |    |    |       |     |      | 24.3S;174.2W.Tonga Is. reg.               |    |    |        |
| 27  |                           | iP   | 19 | 19 | 06    | 46  |      | iPKP                                      | 15 | 14 | 28 C   |
|     |                           | iS   |    | 20 | 31    |     |      | iPP                                       |    | 17 | 13     |
|     |                           | 34.4N;26.5E Crete                                |    |    |       |     |      | iPKS                                      |    | 18 | 07     |
| 28  |                           | eP   | 19 | 26 | 2(5)  |     |      | iPPP                                      |    | 19 | 52     |
| 29  |                           | iP   | 20 | 19 | 2(4)  |     |      | 49.9S;163.3E.S.of N.S.                    |    |    |        |
|     |                           | iS   |    |    | 59    |     |      | M=6 1/2 - 7                               |    |    |        |
| 30  |                           | iP   | 20 | 22 | 34    | 47  | 19   | iP  | 05 | 11 | 03     |
|     |                           | iS   |    | 24 | 05    |     |      | e   |    | 13 | 12     |
|     |                           |  |    |    |       |     |      | 6.4S;105.5E.Soenda Straits                |    |    |        |
| 31  | 14                        | iP   | 01 | 17 | 00    | 48  |      | iPKP                                      | 20 | 53 | 53     |
|     |                           | 42.9N;140.2E off W.Coast of Hokkaido, Japan      |    |    |       |     |      | 24.1S;176.1W.Tonga Is.reg.                |    |    |        |
| 32  |                           | ei(P)  | 01 | 31 | 43    | 49  | 20   | iPKP                                      | 16 | 12 | 40.5 I |
| 33  |                           | e(P)   | 22 | 05 | 52    |     |      | ipPKP                                     |    | 13 | 16     |
|     |                           | e(S)   |    | 07 | 14    |     |      | i   |    | 15 | 17     |
| 16  | From                      |  | 09 | 40 |       |     |      | iPP                                       |    |    | 43     |
|     | Till                      |  | 10 | 30 |       |     |      | iPKS                                      |    | 16 | 19     |
|     | Seismometer out of action |  |    |    |       |     |      | 18.4S;175.2W.Tonga Is. reg.               |    |    |        |
|     |                           |  |    |    |       |     |      | h=175km. M=6 1/2 - 6 3/4                  |    |    |        |
| 34  |                           | iP   | 13 | 58 | 38 C  | 50  | 21   | iPKP                                      | 00 | 02 | 27.5 I |
|     |                           | 8.2S;122E.Flores Is.                             |    |    |       |     |      | ipPKP                                     |    |    | 32     |
|     |                           | M=6 1/4 - 6 1/2                                  |    |    |       |     |      | i   |    | 05 | 33     |
| 35  |                           | ei(P)  | 19 | 32 | 33    |     |      | iPKS                                      |    | 05 | 54     |
|     |                           | iS   |    | 33 | 56    |     |      | 24.2S;175.9W.Tonga Is.reg.                |    |    |        |
|     |                           |  |    |    |       |     |      | M=6 1/4 - 6 1/2                           |    |    |        |
| 36  |                           | iPKP   | 20 | 25 | 14.5D | 51  | 22   | iP  | 06 | 34 | 13     |
|     |                           | 23.6S;176.0W.Tonga Is. reg.                      |    |    |       |     |      |   |    |    |        |
| 37  |                           | iPKP   | 23 | 32 | 41    | 52  |      | iPKP                                      | 21 | 47 | 33     |
|     |                           | 23.6S;175.5W.Tonga Is. reg.                      |    |    |       |     |      | epPKP                                     |    | 49 | 35     |
| 38  | 17                        | iPKP   | 14 | 26 | 38.5  |     |      | 24.6S;179.3E.S.of Fiji Is.                |    |    |        |
|     |                           | 23.8S;175.9W.Tonga Is. reg.                      |    |    |       |     |      | h=517 Km.                                 |    |    |        |
|     |                           | h=120km  |    |    |       | 53  | 23   | iP  | 01 | 06 | 39     |
| 39  |                           | e  | 15 | 55 | 3(1)  |     |      | 43.5N;12.9E.Near Coast of Italy. h=116 Km |    |    |        |
|     |                           | ei   | 16 | 04 | 19    |     |      |   |    |    |        |
| 40  |                           | i(P)   | 16 | 36 | 53.5  | 54  |      | iP  | 02 | 00 | 14 C   |
| 41  |                           | iPKP   | 20 | 30 | 29C   |     |      | iPP                                       |    | 03 | 34     |
|     |                           | 24.3S;175.6W.Tonga Is. reg.                      |    |    |       |     |      | 1.0S;120.2E Celebes                       |    |    |        |
| 42  |                           | i(P)   | 22 | 40 | 49D   | 55  |      | eP  | 02 | 21 | 3(9)   |
| 43  |                           | iP   | 22 | 52 | 46.5  |     |      | ei  |    | 35 | 34     |
|     |                           | 36.1N;141.0E.off coast of Honshu, Japan. h=120km |    |    |       |     |      |   |    |    |        |
| 44  | 18                        | i(PKP)   | 02 | 11 | 36.5  | 56  |      | iP  | 04 | 22 | 52     |
|     |                           |  |    |    |       |     |      | iS  |    | 23 | 12     |
|     |                           |  |    |    |       | 57  |      | iP  | 14 | 01 | 53     |
|     |                           |  |    |    |       |     |      | eiS                                       |    |    | 58     |
|     |                           |  |    |    |       | 58  |      | e   | 23 | 36 | 4(4)   |





| No. | Date | Phase | G. | M. | T. | No. | Date | Phase |
|-----|------|-------|----|----|----|-----|------|-------|
|-----|------|-------|----|----|----|-----|------|-------|



|      |    |   |    |    |    |   |  |  |
|------|----|---|----|----|----|---|--|--|
| 59   | 24 | ei  | 11 | 15 | 10 |   |  |  |
|      |    | e   |    | 20 | 13 |   |  |  |
|      |    | i   |    | 21 | 02 |   |  |  |
| 60   |    | iP  | 23 | 09 | 36 | C |  |  |
|      |    | 35.3N;140.9E.Near E.coast of Honshu, Japan. |    |    |    |   |  |  |
| 61   | 26 | eiP   | 23 | 19 | 32 |   |  |  |
| From | 27 |   | 06 | 22 |    |   |  |  |
| Till | 28 |   | 13 | 20 |    |   |  |  |
|      |    | Seismometer out of action                   |    |    |    |   |  |  |
| From | 28 | Registration obscured by                    |    |    |    |   |  |  |
| Till | 31 | microseisms                                 |    |    |    |   |  |  |
| 62   | 30 | iPKP  | 09 | 09 | 38 |   |  |  |
|      |    | 15.2S;172.8W.Samoa Is. reg.                 |    |    |    |   |  |  |
|      |    | M=5 3/4 - 6                                 |    |    |    |   |  |  |

N. B. Epicentre data from U.S.C.G.S.

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Seismological Section



STATE OF ISRAEL  
Ministry of Development  
Geological Survey  
Division of Quaternary and Recent Geology  
Seismological Section  
JERUSALEM



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Seismological Section  
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Jerusalem, Israel.

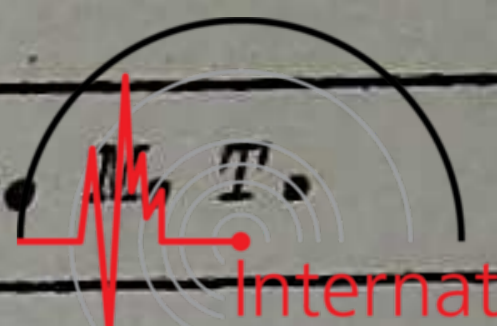
JERUSALEM PROVISIONAL READINGS  
BULLETIN No.83  
April 1961

| No. | Date | Phase   | G. | M. | T.     | No. | Date | Phase                                       | G. | M. | T.   |      |
|-----|------|---|----|----|--------|-----|------|---|----|----|------|------|
| 1   | 1    | iP  | 15 | 25 | 33 C   | 10  | 8    | iPKP  | 18 | 18 | 39   |      |
|     |      | iPP   |    | 26 | 31     |     |      | iPP   |    | 20 | 15   |      |
|     |      | iPPP  |    | 27 | 06     |     |      | 38.2S; 72.7W. Chile                         |    |    |      |      |
|     |      | iPcP  |    | 28 | 05     |     |      | M = 5 3/4 - 6 1/2.                          |    |    |      |      |
|     |      | iS  |    | 31 | 02     |     |      | eP  | 21 | 50 | 14   |      |
|     |      | iM  |    | 44 | 55     | 11  |      | ePP   |    | 53 | 21   |      |
|     |      | 39.6 N; 77.7E. Sinkiang Province, China M = 6 |    |    |        |     |      | 14.8N; 145.1E. Mariana Is. reg. M = 6 1/2.  |    |    |      |      |
| 3   | 3    | From  | 12 | 00 |        | 12  | 9    | iPKP  | 09 | 40 | 07 D |      |
|     | 4    | Till  | 09 | 00 |        |     |      | eipPKP                                      |    | 47 | 32   |      |
|     |      | Time Signal System out of action.             |    |    |        |     |      | eiPP  |    | 43 | 31   |      |
|     |      |   |    |    |        |     |      | 26.S; 178.4E. S. of Fiji.                   |    |    |      |      |
| 2   | 4    | iP  | 09 | 53 | 41     | 13  |      | iP  | 15 | 46 | 52 C |      |
|     |      | 40.1N; 77.8. Sinkiang Province, China.        |    |    |        |     |      | eiPP  |    | 49 | 42   |      |
|     |      |   |    |    |        |     |      | eiPPP                                       |    | 51 | 37   |      |
|     |      |   |    |    |        |     |      | eS  |    | 56 | 40   |      |
| 3   |      | eP  | 12 | 02 | 3(3)   |     |      | 24.1N; 122.2E. Near coast of Formosa. M = 6 |    |    |      |      |
|     |      | 30.1N; 50.5E. Persian Gulf.                   |    |    |        |     | 12   | From  | 17 | 00 |      |      |
|     |      |   |    |    |        |     | 13   | until                                       | 08 | 00 |      |      |
| 4   | 6    | iP  | 01 | 34 | 16     |     |      | Seismometer out of action.                  |    |    |      |      |
|     |      | iS  |    | 35 | 45     |     |      |   |    |    |      |      |
|     |      | Small.  |    |    |        |     | 14   | 13  | iP | 16 | 41   | 35 C |
|     |      |   |    |    |        |     |      | eiPP  |    | 42 | 54   |      |
| 5   |      | iP  | 14 | 15 | 44 C   |     |      | eiPPP                                       |    | 43 | 14   |      |
|     |      | 2.2N; 97.2E. Near Coast of Sumatra.           |    |    |        |     |      | 40.1N; 77.8E. Sinkiang China.               |    |    |      |      |
|     |      |   |    |    |        | 15  | 14   | iP  | 17 | 09 | 51   |      |
| 6   |      | iP  | 18 | 16 | 57 C   |     |      | iS  |    | 11 | 30   |      |
|     |      | iS  |    | 20 | 39     |     |      |   |    |    |      |      |
|     |      | iM  |    | 28 | 40     | 16  |      | iP  | 18 | 49 | 26   |      |
|     |      | 27.8N; 56.7E. S. Iran                         |    |    |        |     |      | Small, Local.                               |    |    |      |      |
| 7   |      | iP  | 22 | 37 | 08.5 D | 17  | 16   | iP  | 11 | 53 | 00   |      |
|     |      | 1.9N; 96.5E. Near coast of Sumatra.           |    |    |        |     |      | 53.5N; 158.7E. Kamchatka.                   |    |    |      |      |
|     |      |   |    |    |        |     | 17   | From  | 08 | 00 |      |      |
| 8   | 7    | iP  | 20 | 07 | 10     |     |      | Till  | 14 | 00 |      |      |
|     |      | 57.2N; 163.3E. Near E. coast of Kamchatka.    |    |    |        |     |      | Seismometer out of action                   |    |    |      |      |
|     |      |   |    |    |        |     | 18   | eP  | 16 | 32 | 14   |      |
| 9   |      | iP  | 21 | 24 | 08 C   |     |      | 3.9N; 31.5W. Mid Atlantic Ocean.            |    |    |      |      |
|     |      | 39.3N; 73.0E. Kirghiz - Tadzhic border.       |    |    |        |     |      |   |    |    |      |      |



| No. | Date | Phase  | G. | M. | T.     | No. | Date | Phase  | G. | M. | T.                 |
|-----|------|--|----|----|--------|-----|------|--|----|----|--------------------|
| 19  | 17   | iPKP<br>21.3S; 178.6W.<br>reg. h = 549 km.                                 | 21 | 07 | 01 D   | 36  | 23   | iP<br>ipP<br>44.5N; 150.1E.<br>Kuril Is. h = 76 km.              | 17 | 03 | 30 C<br>46         |
| 20  | 18   | iP<br>iS<br>Small  | 01 | 35 | 47     | 37  | 24   | iP<br>ipP<br>44.5N; 150.2E. Kurile Is.<br>h = 76 km.             | 12 | 40 | 06 C<br>20         |
| 21  | 19   | iP   | 07 | 03 | 39.5   |     |      |  |    |    |                    |
| 22  |      | iP<br>ipP  | 16 | 24 | 54 C   | 38  | 25   | iP   | 00 | 27 | 33                 |
|     |      |  |    | 25 | 07     |     |      |  |    |    |                    |
| 23  |      | iP   | 18 | 26 | 19 D   | 39  |      | iP   | 00 | 30 | 55                 |
|     |      | 55.1N; 163.6E. Kamchatka   |    |    |        | 40  |      | eiP  | 00 | 40 | 43                 |
|     |      |  |    |    |        |     |      |  |    |    |                    |
| 24  |      | iP   | 20 | 32 | 19 C   |     |      |  |    |    |                    |
|     |      | 44.6N; 150.2E. Kurile Is.  |    |    |        | 41  |      | iP   | 00 | 41 | 08                 |
| 25  |      | iP<br>ipP<br>44.9N; 149.5E. Kurile Is.                                     | 22 | 20 | 20.5 C | 42  |      | iP<br>ipP<br>eiS<br>44.5N; 150.0E. Kurile Is.<br>h = 78 km.      | 01 | 30 | 08 C<br>22<br>31   |
|     |      |  |    |    | 34     |     |      |  |    |    |                    |
| 26  |      | e(S)   | 22 | 34 | 10     |     |      |  |    |    |                    |
| 20  | 20   | eP<br>eiS  | 03 | 44 | 20     | 43  |      | eiPKP<br>32.7S; 178.5W. Kermadec Is.<br>M = 5 1/2 - 3/4          | 11 | 36 | 79                 |
|     |      |  |    | 45 | 42     |     |      |  |    |    |                    |
| 28  |      | eiPKP<br>ePP<br>15.2S; 173.7W. S. of Samoa<br>Is. M = 6 - 6 1/2.           | 21 | 58 | 56.5   | 44  |      | eiP<br>27.9N; 129.3E. Rynkyn Is.                                 | 23 | 52 | 42                 |
|     |      |  |    | 22 | 39     |     |      |  |    |    |                    |
| 29  | 21   | iP<br>Kurile Is. (?)   | 19 | 43 | 09.5   | 45  | 26   | eiP<br>43.6N; 151 E. Kurile Is.                                  | 00 | 50 | 39                 |
|     |      |  |    |    |        | 46  |      | eiP<br>5.6S; 105.6E. S. Sumatra.                                 | 02 | 21 | 10.5               |
| 30  |      | iP<br>47.7N; 154.6E. Kurile Is.  | 20 | 23 | 11 D   |     |      | e  | 04 | 08 | 26                 |
|     |      |  |    |    |        | 47  |      | eiP  | 06 | 15 | 56                 |
| 31  |      | iP<br>51.7N; 173.9W. Adreanof Is.<br>Aleutian Is.                          | 21 | 39 | 56 D   | 48  |      | eiPKP<br>epPKP<br>21.8S; 179.5W. Fiji Is.<br>region. h = 622 km. | 07 | 41 | 34<br>05           |
|     |      |  |    |    |        | 49  |      |  |    |    |                    |
| 32  | 23   | iP<br>ipP<br>iPP<br>26.2N; 129.8E. Rynkyo Is.<br>h = 110 km.               | 05 | 26 | 36.5 D | 50  |      | iP<br>eiPP<br>eiS<br>44.6N; 148.9E. Kurile Is.<br>M = 5 3/4 - 6. | 07 | 51 | 27.5 C<br>30<br>53 |
|     |      |  |    |    | 57     |     |      |  |    |    |                    |
|     |      |  |    | 29 | 45     |     |      |  |    |    |                    |
| 33  |      | iP<br>eiPP<br>eiS<br>iM<br>44.6N; 150.2E. Kurile Is.<br>M = 6 1/4 - 6 1/2. | 09 | 14 | 11.5 C | 51  |      | iP<br>44.6N; 150.1E. Kurile Is.                                  | 19 | 45 | 02 C               |
|     |      |  |    | 17 | 32.5   |     |      |  |    |    |                    |
|     |      |  |    | 24 | 28     |     |      |  |    |    |                    |
|     |      |  |    | 57 |        |     |      |  |    |    |                    |
| 34  |      | iP<br>ipP<br>44.8N; 150.6E. Kurile Is.<br>h = 78 km.                       | 12 | 30 | 24.5 C | 52  | 27   | eP<br>eS   | 11 | 54 | 51<br>39           |
|     |      |  |    |    | 39     |     |      | e(S)   | 17 | 47 | 36                 |
| 35  | 23   | eiP  | 15 | 07 | 52     | 54  | 28   | eP   | 07 | 00 | 47                 |





| No. | Date | Phase   | G. M. T. |                |                    | No. | Date | Phase                             | G. M. T. |          |          |
|-----|------|---|----------|----------------|--------------------|-----|------|-----------------------------------|----------|----------|----------|
| 55  | 29   | iP<br>iPP<br>eS   | 09       | 37<br>39<br>44 | 35 G<br>23<br>2(5) | 58  | 30   | iP<br>iM                          | 11<br>12 | 27<br>11 | 46<br>25 |
|     |      | 71.3N; 7.4W. Jan Mayen<br>Is. reg.                        |          |                |                    | 59  | 30   | ePKP                              | 15       | 08       | 03       |
|     |      |   |          |                |                    |     |      | 15.3S; 174.4 W. Samoa Is.<br>reg. |          |          |          |
| 56  | 30   | eiP<br>ePcP   | 07       | 42<br>43       | 05 D<br>35         |     |      |                                   |          |          |          |
|     |      | 52.ON; 31.9W. North<br>Atlantic Ocean<br>M = 5 1/2 - 3/4. |          |                |                    |     |      |                                   |          |          |          |
| 57  |      | iP  | 11       | 13             | 05                 |     |      |                                   |          |          |          |
|     |      | 45.8N; 150.2E. Kurile Is.                                 |          |                |                    |     |      |                                   |          |          |          |

Note: Epicentre data from U.S.C.G.S.

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 Ministry of Development  
 Geological Survey  
 Division of Quaternary and Recent Geology  
 Seismological Section  
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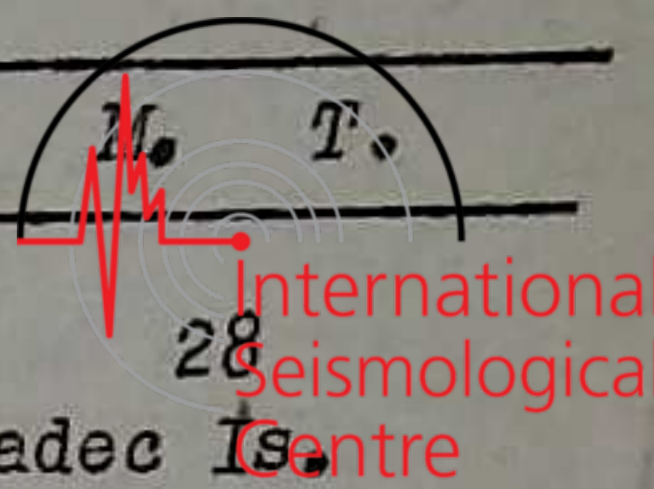
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JERUSALEM PROVISIONAL READINGS  
 BULLETIN NO. 84  
 May 1961

| No. | Date | Phase   | G.       | M.       | T.       | No. | Date | Phase   | G. | M. | T.                   |
|-----|------|---|----------|----------|----------|-----|------|---|----|----|----------------------|
| 1   | 1    | eiP<br>36.2N; 141.1E. Near coast of Honshu, Japan. h = 136 km.      | 00       | 54       | 33       | 12  | 6    | eP<br>ePP<br>ePPP<br>eS<br>1.2S; 15.5W. Atlantic Ocean North of Ascension Is. | 19 | 48 | 03<br>25<br>36<br>16 |
| 2   |      | ei(P)   | 01       | 42       | 18       |     |      |   |    |    |                      |
| 3   | 2    | eP<br>71.2N; 6.9W. Jan Mayen Is. reg.                               | 03       | 20       | 10       | 13  |      | iP<br>8.3N; 126.3E. Near coast of Mindano, P.I. h = 110 km.                   | 22 | 45 | 32                   |
| 4   |      | iP<br>iS<br>Small   | 05       | 03       | 25<br>07 | 14  | 7    | ePKP<br>iPP<br>6.1S; 154.4E. Solomon Is. reg. h = 123 km. M = 6 1/2 - 6 3/4   | 00 | 44 | 1(9)<br>37           |
| 5   |      | iPKP<br>15.2S; 173.1W. Samoa Is. reg.                               | 19       | 10       | 44 D     |     |      |   |    |    |                      |
| 6   |      | eiPKP<br>27.8S; 176.4W. Kermadec Is. reg.                           | 19       | 58       | 2(1)     | 15  |      | iP<br>ipP<br>eiPP<br>8.6S; 111.4E. Near coast of Java h = 113 km.             | 04 | 44 | 33 C<br>48<br>45     |
| 7   |      | eiPKP<br>27.5S; 176.7W. Kermadec Is. reg.                           | 19       | 59       | 3(6)     | 16  |      | iP<br>ipP<br>eS<br>5.8N; 126.8E. Off coast of Mindano.                        | 10 | 35 | 32<br>53<br>15       |
|     | 3    | From<br>Until<br>Seismometer out of action                          | 21<br>06 | 30<br>10 |          | 17  |      | iP<br>35.2N; 134.5E. Honshu, Japan  | 12 | 26 | 24                   |
|     |      | From<br>Until<br>Seismometer out of action                          | 11<br>12 | 55<br>26 |          | 18  | 8    | ePKP<br>eiPP<br>ePPP<br>24.3S; 69.7W. N. Chile M = 5 1/2 - 5 3/4.             | 19 | 42 | 13<br>17<br>45       |
| 8   | 5    | eiPKP<br>27.8S; 176.1W. Kermadec Is. reg. M = 6 1/4.                | 14       | 03       | 14       | 19  |      | eiP<br>eiS  | 20 | 32 | 22<br>56             |
| 9   |      | eiPKP<br>27.3S; 176.1W. Kermadec Is. reg.                           | 15       | 48       | 46       | 20  | 10   | eiP<br>e  | 17 | 11 | 54<br>47             |
| 10  | 6    | eiP<br>eiS  | 01       | 01       | 46<br>03 | 21  | 11   | ei(P)<br>e(S)   | 00 | 30 | 39<br>17             |
| 11  |      | eiP<br>eS<br>37.4N; 11.2E. Mediterranean Sea, off coast of Tunisia. | 16       | 09       | 18<br>03 |     |      |   |    |    |                      |



| No. | Date | Phase  | G. | M.             | T.                     | No. | Date | Phase   | G.       | M.                   | T.                       |
|-----|------|--|----|----------------|------------------------|-----|------|---|----------|----------------------|--------------------------|
| 22  | 11   | iP<br>8.4S; 112.5E. Near coast of Hava.                                  | 01 | 03             | 54.5C                  | 38  | 16   | ePKP<br>27.9S; 176.4W. Kermadec Is. reg.                            | 17       | 47                   | 28                       |
| 23  |      | iP<br>iS   | 05 | 03<br>04       | 44<br>21               | 39  |      | iP<br>ePP<br>ePPP<br>eS   | 21<br>22 | 57<br>00<br>02<br>07 | 35 D<br>28<br>27<br>45   |
| 24  |      | ePKP<br>ePP<br>37.2S; 73.6W. Near S. coast of Chile.                     | 08 | 57<br>58       | 22<br>47               |     |      | 30N; 132E. Rynkyn Is.<br>M = 5 1/4 - 5 1/2.                         |          |                      |                          |
| 25  | 12   | eiPKP<br>27.7S; 176.2W. Kermadec Is. reg.                                | 05 | 04             | 37                     | 40  | 17   | iP<br>eiPP<br>ePPP<br>eS  | 19       | 42<br>45<br>47<br>52 | 16.5 C<br>34<br>46<br>45 |
| 26  | 13   | eiPKP<br>27.8S; 176.2W. Kermadec Is.                                     | 14 | 01             | 48                     |     |      | 52N; 173.9E. Aleutian Is.<br>M = 6 - 6 1/2.                         |          |                      |                          |
| 27  |      | iPKP<br>ePKS<br>ePP<br>27.9S; 176 W. Kermadec Is. reg.                   | 14 | 38             | 41 D<br>07<br>20       | 41  |      | eiPKP<br>15.4S; 172.6W. Samoa Is. reg.                              | 22       | 55                   | 36                       |
| 28  |      | iPKP<br>ipPKP<br>ePKS<br>ePP<br>17.5S; 178.8W. Fiji Is. reg. h = 556 km. | 15 | 11<br>13<br>15 | 37 C<br>44<br>08<br>42 | 42  | 18   | iP<br>very small, Local   | 15       | 59                   | 58                       |
| 29  |      | iP<br>43.4N; 147.8E. Off N.E. coast of Hokkaido, Japan.                  | 16 | 01             | 57.5C                  | 43  |      | e(P)  | 20       | 51                   | 20                       |
| 30  |      | iP<br>25.3N; 122.6E. Off N.E. coast of Formosa. h = 261km.               | 19 | 30             | 54 C                   | 44  |      | iP<br>iS  | 22       | 35                   | 18<br>59                 |
| 31  | 14   | iPKP<br>39.6S; 176.8E. North Is. N.Z. Minor damage.                      | 00 | 32             | 18.5C                  | 45  |      | eP<br>eS  | 23       | 27<br>28             | 08<br>25                 |
| 32  |      | iP<br>iS   | 00 | 37<br>38       | 17<br>14               | 46  | 19   | iPKP<br>epPKP<br>22.5S; 179.2E. Fiji Is. reg. h = 600 km.           | 02       | 40<br>42             | 16 D<br>39               |
| 33  |      | eiPKP<br>27.9S; 176.3W. Kermadec Is. reg.                                | 03 | 03             | 18                     | 46  |      | iPKP<br>15.8S; 172.8N. Tonga Is.                                    | 04       | 02                   | 28                       |
| 34  |      | e  | 13 | 58             | 39                     | 47  |      | iP<br>24.1N; 123.4E. Rynkyn Is.                                     | 16       | 49                   | 15 C                     |
| 35  |      | e  | 15 | 46             | 46                     | 48  |      | eP<br>38.3N; 72.6E. Tadzhic. S.S.R.                                 | 21       | 36                   | 38                       |
| 36  | 15   | e  | 05 | 39             | 44                     | 49  | 20   | i<br>12   | 03       | 26.5 D               |                          |
| 37  |      | iPKP<br>i<br>20S; 177.2W. Tonga Is. reg.                                 | 21 | 12<br>14       | 40 D<br>44             | 50  |      | eP<br>72.9N; 05.6E. Arctic Ocean                                    | 17       | 55                   | 34                       |
|     |      |  |    |                |                        | 51  |      | e(P)<br>e<br>ei   | 17<br>18 | 59<br>10             | 22<br>52<br>10           |
|     |      |  |    |                |                        | 52  | 21   | eP  | 19       | 48                   | 42                       |
|     |      |  |    |                |                        | 53  | 22   | iP<br>49.N; 155.6E. Kurile Is.                                      | 09       | 09                   | 43                       |
|     |      |  |    |                |                        | 54  |      | (ePKP)<br>iPKP<br>ePP<br>21.3S; 174.4W. Tonga Is. M = 5 3/4 - 6 1/2 | 14       | 04<br>08             | 19 C<br>26 C<br>38       |





| No. | Date | Phase  | G.       | M.       | T.                    | No. | Date | Phase   | G.             | M.             | T.                 |
|-----|------|--|----------|----------|-----------------------|-----|------|---|----------------|----------------|--------------------|
| 55  | 22   | ePKP ?<br>iPKP<br>ePP<br>22.8S; 176.1W. Tonga Is.<br>reg. M = 6 1/2 - 6 3/4.                             | 17       | 52       | 10<br>15C<br>56<br>21 | 63  | 28   | iPKP<br>26S; 179.7E. S. of Fiji Is.<br>h = 219 km.        | 19<br>47       | 55             | 55                 |
| 56  | 23   | iP<br>36.4N; 28.3E. Dodecanese Is.<br>Moderate property damage<br>in Rhodes & S.W. Turkey.<br>M = 6 1/4. | 02       | 47       | 05D                   | 64  | 29   | iP<br>Ethiopia?   | 05             | 04             | 35                 |
| 57  |      | iP<br>Small, local.  | 06       | 00       | 21                    | 65  |      | iP<br>iPP<br>eS<br>10.6N; 39.4E. Ethiopia.                | 10<br>57<br>11 | 56<br>56<br>01 | 56 C<br>39<br>0(8) |
|     | 25   | From<br>Until<br>Seismometer blocked.<br>S.P. Galvanometer remained<br>blocked until 27.5.61<br>- 13.00  | 07<br>07 | 00<br>40 |                       | 66  |      | eiP<br>Ethiopia ?   | 11             | 44             | 47                 |
| 58  |      | eP<br>eS   | 13       | 13       | 5(0)<br>24            | 67  |      | i<br>e  | 18<br>49       | 48<br>49       | 53 D<br>4C         |
| 59  |      | i  | 19       | 44       | 35                    | 68  |      | iP<br>eS<br>10.4N; 40E. Ethiopia, felt<br>at Addis Ababa. | 19<br>32       | 28<br>32       | 58 C<br>5(5)       |
| 60  |      | iPKP<br>ipPKP<br>14.8S; 177.4W. Fiji Is.<br>reg. h = 417 km.   | 21       | 26<br>27 | 27<br>58              | 69  |      | iP<br>Ethiopia ?  | 19             | 45             | 22 C               |
| 61  | 26   | ei   | 03       | 41       | 55                    | 70  |      | ei(P)   | 21             | 44             | 46                 |
| 62  |      | iPKP<br>32.7S; 109W. Easter Is. reg.   | 04       | 55       | 54                    | 71  | 30   | iP<br>eS<br>Ethiopia ?                                    | 13<br>20       | 16<br>20       | 11 C<br>1(2)       |

Note: Epicentre data from U.S.C.G.S.

E. Arieh  
Seismological Section.





STATE OF ISRAEL  
 Ministry of Development  
 Division of Quaternary and Recent Geology  
 Geological Survey  
 Seismological Section  
 JERUSALEM



Address:

Seismological Section  
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 Jerusalem, Israel.

JERUSALEM PROVISIONAL READINGS  
 BULLETIN No. 85  
 June 1961

| No. | Date | Phase  | G. | M.             | T.              | No. | Date | Phase  | G.       | M.       | T.         |
|-----|------|--|----|----------------|-----------------|-----|------|--|----------|----------|------------|
| 1   | 1    | eP<br>iS<br>37.7N; 36.8E.. S. Turkey   | 16 | 33<br>34       | 14<br>50        | 14  | 2    | iP<br>10.3N; 39.6E. Ethiopia                       | 05       | 27       | 27         |
| 2   |      | iP<br>Ethiopia   | 21 | 12             | 11              | 15  |      | iP<br>10.3N; 39.8E. Ethiopia                       | 05       | 49       | 48 D       |
| 3   |      | eP<br>eS<br>(Rhodes?)  | 22 | 40<br>41       | 31<br>59        | 16  |      | eP<br>10.5N; 39.7E. Ethiopia                       | 06       | 22       | 05         |
| 4   |      | iP<br>iPP<br>eS<br>10.6N; 39.3E. Ethiopia.<br>Considerable damage at<br>Kara Kore. Felt-Addis<br>Abeba M=6 1/2-6 3/4 | 23 | 34<br>34<br>37 | 12D<br>38<br>33 | 17  |      | iP<br>10.3N; 40 E. Ethiopia                        | 07       | 07       | 48 D       |
| 5   | 2    | iP<br>10N; 39.6E. Ethiopia   | 00 | 01             | 42              | 18  |      | eiP<br>Ethiopia ?                                  | 07       | 26       | 3(9)       |
| 6   |      | iP<br>10.5N; 39.5E. Ethiopia   | 00 | 06             | 39              | 19  |      | iP<br>Ethiopia                                     | 22       | 24       | 27         |
| 7   |      | iP<br>eS<br>10.3N; 39.6E. Ethiopia   | 00 | 13<br>17       | 51<br>3(8)      | 20  |      | iP<br>Ethiopia                                     | 23       | 37       | 32 C       |
| 8   |      | iP<br>Ethiopia   | 01 | 02             | 52              | 21  | 3    | iP<br>Ethiopia ?                                   | 00       | 27       | 31         |
| 9   |      | iP<br>9.7N; 39.7E. Ethiopia  | 01 | 21             | 07              | 22  |      | iP<br>56.1N; 164.8E. Off E. coast<br>of Kamchatka. | 01       | 25       | 49         |
| 10  |      | iP<br>Ethiopia ?   | 01 | 41             | 44              | 23  |      | iP<br>Ethiopia.                                    | 02       | 10       | 30         |
| 11  |      | eiP<br>Ethiopia  | 02 | 40             | 29              | 24  |      | iP<br>iS<br>39N; 32.3E. Turkey                     | 06<br>20 | 18<br>20 | 09 C<br>07 |
| 12  |      | iP<br>Ethiopia.  | 03 | 54             | 07.5            | 25  |      | iP<br>9.7N; 39.7E. Ethiopia                        | 15       | 25       | 21 D       |
| 13  |      | iP<br>Ethiopia   | 04 | 56             | 08 D            | 26  |      | iP<br>9.8N; 39.8E. Ethiopia.                       | 15       | 28       | 12 D       |
|     |      |  |    |                |                 | 27  |      | iP<br>Ethiopia ?                                   | 16       | 30       | 47         |
|     |      |  |    |                |                 | 28  | 4    | iP<br>Ethiopia                                     | 00       | 40       | 36         |
|     |      |  |    |                |                 | 29  |      | (see end of Bulletin)                              |          |          |            |



| No.  | Date | Phase   | G. | M. | T.     | No.  | Date | Phase                                      | G. | M. | T.   |
|------|------|---|----|----|--------|------|------|--|----|----|------|
| 30   | 4    | iP<br>34.2N; 82.2E.   | 07 | 51 | 16     | 46   | 11   | iP<br>29.3N; 55.2E.                        | 06 | 50 | 51   |
|      |      | Tibet   |    |    |        |      |      | Iran                                       |    |    |      |
| 31   | 5    | eP<br>eS<br>Crete   | 02 | 02 | 25     | 47   |      | iP<br>28.1N; 59.7E.                        | 06 | 55 | 32   |
|      |      |   |    | 04 | 04     |      |      | S. Iran                                    |    |    |      |
| 32   |      | iP<br>eiS<br>28.3N; 54.8E.  | 05 | 35 | 02     | 48   |      | iP<br>29.3N; 55.6E.                        | 08 | 08 | 13.5 |
|      |      | S. Iran   |    | 38 | 25     |      |      | Iran                                       |    |    |      |
| 33   |      | iP<br>Iran  | 06 | 15 | 34     | 49   |      | eP<br>Iran. unclear                        | 08 | 42 | 46   |
|      |      |   |    |    |        |      |      |  |    |    |      |
| 34   |      | iP<br>Local   | 10 | 53 | 27     | 50   |      | iP<br>29N; 55.1 E.                         | 09 | 25 | 41   |
|      |      |   |    |    |        |      |      | Iran                                       |    |    |      |
| From | 5    |   | 17 | 00 |        | From | 11   |  | 10 | 00 |      |
| Till | 7    |   | 12 | 00 |        | Till | 17   |  | 20 | 00 |      |
|      |      | Troubles with<br>Short Period Galvanometre  |    |    |        |      |      | Troubles with Short Period<br>Galvanometre |    |    |      |
| 35   | 6    | eP  | 05 | 50 | (40)   | 51   | 11   | eP<br>Iran                                 | 10 | 07 | 0(9) |
| 36   |      | eP<br>29.9N; 52.4E.   | 09 | 49 | 5(4)   |      |      | Iran                                       |    |    |      |
|      |      | Iran  |    |    |        |      |      |  |    |    |      |
| 37   | 7    | iP<br>iPP<br>eiS<br>5.4S; 11.6W. Ascension Is.<br>reg. M = 5 1/4 - 1/2                                      | 14 | 25 | 16.5 C | 52   |      | eiP<br>28.5N; 54.6E.                       | 11 | 28 | 12   |
|      |      |   |    | 27 | 30     |      |      | Iran                                       |    |    |      |
|      |      |   |    | 33 | 28     |      |      |  |    |    |      |
| 38   |      | ei  | 15 | 07 | 08     | 53   |      | iP<br>27.5N; 54.4E.                        | 12 | 34 | 22   |
|      |      |   |    |    |        |      |      | Iran                                       |    |    |      |
| 39   | 9    | iP<br>40.8N; 50.7E. Caspian Sea   | 09 | 40 | 30     | 54   |      | iP<br>28N; 54.6E.                          | 12 | 35 | 27 C |
|      |      |   |    |    |        |      |      | Iran                                       |    |    |      |
| 40   | 10   | iPKP<br>e<br>24.1S; 112.1W. Easter Is.<br>reg. M = 5 1/2 - 6.   | 20 | 51 | 43.4   | 55   |      | iP<br>iPP<br>iS<br>27.6N; 54.6E.           | 14 | 02 | 02   |
|      |      |   |    | 54 | 21     |      |      | S. Iran                                    |    | 05 | 22   |
|      |      |   |    |    |        |      |      |  |    |    | 26   |
| 41   | 11   | iP<br>28.9N; 54.6E. S. Iran.<br>M = 6 1/4 - 3/4.<br>Major property damage, many<br>casualties in Lar. urca. | 05 | 14 | 25 C   | 56   |      | iP<br>27.8N; 54.6E.                        | 15 | 10 | 15 C |
|      |      |   |    |    |        |      |      | S. Iran                                    |    |    |      |
| 42   |      | iP<br>27.3N; 54.5E. S. Iran   | 05 | 34 | 17 C   | 57   |      | iP<br>Iran                                 | 17 | 25 | 09 C |
|      |      |   |    |    |        |      |      |  |    |    |      |
| 43   |      | iP<br>Iran  | 05 | 57 | 50 C   | 58   |      | eP<br>Iran                                 | 19 | 00 | 25   |
|      |      |   |    |    |        |      |      |  |    |    |      |
| 44   |      | eP<br>Iran  | 06 | 14 | 46     | 59   |      | eiP<br>28.5N; 54.6E.                       | 23 | 17 | 10   |
|      |      |   |    |    |        |      |      | Iran                                       |    |    |      |
| 45   |      | iP<br>ei<br>Iran  | 06 | 23 | 33 C   | 60   | 12   | eP<br>Iran. very unclear.                  | 03 | 56 | 0(7) |
|      |      |   |    | 24 | 19     |      |      |  |    |    |      |
|      |      |   |    |    |        |      |      |  |    |    |      |
| 46   |      | iP<br>51.5N; 10.6E. N. Viet Nam.  | 10 | 08 | 43.5 C | 61   |      | iP<br>26.9N; 54.6E.                        | 17 | 09 | 05   |
|      |      |   |    |    |        |      |      | Iran                                       |    |    |      |
| 47   |      | eP<br>Iran.   | 13 | 05 | (20)   | 62   |      | eP<br>Iran.                                | 13 | 05 | (20) |
|      |      |   |    |    |        |      |      |  |    |    |      |
| 48   |      | iP<br>28.8N; 54.8E.   | 21 | 06 | 4(0)   | 63   |      | iP<br>Iran                                 | 17 | 09 | 05   |
|      |      | Iran  |    |    |        |      |      |  |    |    |      |
| 49   |      | eP<br>Iran.   | 21 | 06 | 4(0)   | 64   |      | eP<br>Iran                                 | 21 | 06 | 4(0) |
|      |      |   |    |    |        |      |      |  |    |    |      |





|      |       |                                     |    |    | International Seismological Centre |      |       |   |                      |    |                   |
|------|-------|-------------------------------------|----|----|------------------------------------|------|-------|---|----------------------|----|-------------------|
| Date | Phase | G.                                  | M. | T. | No.                                | Date | Phase | G.  | M.                   | T. |                   |
| 5    | 12    | iP                                  | 21 | 52 | 36                                 | 84   | 17    | 1   | 03                   | 24 | 01 D              |
|      |       | 28.6N; 55.1E. Iran                  |    |    |                                    |      |       |   |                      |    |                   |
| 66   |       | eP                                  | 23 | 21 | 1(7)                               | 85   |       | iP  | 08                   | 09 | 56 D              |
|      |       | Iran                                |    |    |                                    |      |       |   |                      |    | 2(2)              |
| 67   | 13    | iPKP                                | 21 | 57 | 29+1 D                             | 86   |       | ePKP  | 11                   | 16 | (00)              |
|      |       | 21.4S; 176.4W. Tonga Is. reg.       |    |    |                                    |      |       |   | 11.9S; 75.3W. Peru   |    | M = 5             |
| 68   | 14    | eiP                                 | 00 | 28 | 36+1                               | 87   |       | ePKP  | 15                   | 26 | 39                |
|      |       | 28.3N; 54.9E. Iran                  |    |    |                                    |      |       |   | 14.2N; 92.2W. Mexico |    |                   |
| 69   |       | iP                                  | 00 | 50 | 23+1                               |      |       | Guatemala border.                             |                      |    | h = 147 km. M = 6 |
|      |       | 24.5N; 95E. N. Burma.               |    |    |                                    | 88   |       | eiP   | 21                   | 39 | 38                |
| 70   |       | eP                                  | 01 | 46 | 36+4                               | 89   | 18    | iP  | 03                   | 24 | 01 D              |
|      |       | Iran.                               |    |    |                                    |      |       | epP   |                      | 26 | 09                |
| 71   |       | eP                                  | 09 | 07 | 40+1 C                             |      |       | 5.9S; 113E. Java Sea                          |                      |    | h = 641 km.       |
|      |       | 28.7N; 55.3E. Iran                  |    |    |                                    | 90   |       | eiP   | 10                   | 14 | 17                |
| 72   |       | iP                                  | 20 | 37 | 15 D                               |      |       | 29 N; 55E. Iran                               |                      |    |                   |
|      |       | ipP                                 |    |    | 27                                 | 91   |       | eP  | 10                   | 56 | 10                |
|      |       | 10.8N; 40.1E. Ethiopia.             |    |    |                                    |      |       | 28.3N; 54.6E. Iran                            |                      |    |                   |
| 73   | 15    | iP                                  | 04 | 37 | 57.5                               | 92   |       | iP  | 11                   | 19 | 43                |
|      |       | iS                                  |    | 38 | 05.5                               |      |       | Local, Small.                                 |                      |    |                   |
| 74   |       | iP                                  | 06 | 25 | 38                                 | 93   |       | iP  | 11                   | 39 | 18                |
|      |       | 27.8N; 54.8E. S. Iran               |    |    |                                    |      |       | iS  |                      |    | 23                |
| 75   |       | eP                                  | 20 | 00 | 52                                 |      |       | Small.  |                      |    |                   |
|      |       | Iran.                               |    |    |                                    | 94   |       | iP  | 13                   | 59 | 15                |
| 76   |       | i(P)                                | 23 | 37 | 11.5 C                             |      |       | Local, Small.                                 |                      |    |                   |
|      |       | 45.4N; 151.3E. Kurile Is.           |    |    |                                    | 95   |       | iPKP  | 14                   | 14 | 15 D              |
| 77   | 16    | eiPKP                               | 07 | 27 | 16                                 |      |       | iPKP  |                      | 16 | 02                |
|      |       | eiPP                                |    | 29 | 12                                 |      |       | 31.3S; 179.8E. Marmadec Is.                   |                      |    |                   |
|      |       | ePPP                                |    | 31 | 4(6)                               |      |       | reg.  |                      |    |                   |
|      |       | 411S; 74.5W. Off coast of S. Chile. |    |    |                                    | 96   |       | eP  | 14                   | 55 | 33                |
| 78   |       | eP                                  | 08 | 49 | 35                                 |      |       | Iran.   |                      |    |                   |
|      |       | 28.7W; 55.1E. Iran                  |    |    |                                    | 97   |       | eiPKP   | 22                   | 33 | 16                |
| 79   |       | eP                                  | 10 | 45 | 39                                 |      |       | 56.7S; 141.6W. S. Pacific Ocean.              |                      |    |                   |
|      |       | eiPP                                |    | 50 | 10                                 |      |       |   |                      |    |                   |
|      |       | 8.8N; 73.4W. N. Colombia            |    |    |                                    | 98   | 19    | eiP   | 01                   | 57 | 37                |
|      |       | M = 6                               |    |    |                                    |      |       | 12.6N; 121.9E. Luzon P.I.                     |                      |    |                   |
| 80   |       | iP                                  | 12 | 48 | 23                                 | 99   |       | iP  | 02                   | 58 | 22 C              |
|      |       | Very small, local                   |    |    |                                    |      |       | 39.3N; 142.9E. Off E. coast of Honshu, Japan. |                      |    |                   |
| 81   |       | iP                                  | 13 | 07 | 32                                 | 100  |       | i   | 04                   | 39 | 06                |
|      |       | Local                               |    |    |                                    | 101  |       | i   | 15                   | 04 | 19                |
| 82   |       | iP                                  | 14 | 00 | 58                                 |      |       | e   | 15                   | 32 | 33.5              |
|      |       | Local                               |    |    |                                    | 102  |       | iP  | 17                   | 10 | 27 C              |
| 83   |       | eiP                                 | 15 | 01 | 33                                 |      |       | ipP   |                      |    | 44                |
|      |       | iS                                  |    | 02 | 54                                 |      |       | iPP   |                      | 11 | 10                |
|      |       | 35.6N; 28.3E. Crete                 |    |    |                                    |      |       | eiPPP   |                      |    | 34                |
|      |       | h = 119 km                          |    |    |                                    |      |       | eS  |                      | 15 | 14                |
|      |       |                                     |    |    |                                    |      |       | 36.6N; 71E. Hindu Kush                        |                      |    | h=151km           |



| Date | Phase | G.                                    | M.                                 | T. | No.    | Date | Phase | G.                                 | M.                | T.     |
|------|-------|---------------------------------------|------------------------------------|----|--------|------|-------|------------------------------------|-------------------|--------|
| 103  | 19    | eiP                                   | 22                                 | 29 | 38     | 125  | 25    | eiPP                               | 17                | 03     |
|      |       | 53.7N; 160.7E.                        | Kamchatka.                         |    |        |      |       | 21.7N; 143.1E.                     | N. of Mariana Is. |        |
|      |       |                                       |                                    |    |        |      |       |                                    | M = 5 3/4.        |        |
| 104  | 20    | iP                                    | 03                                 | 26 | 20.5 C | 126  | 26    | iP                                 | 01                | 04     |
|      |       | iS                                    |                                    | 30 | 30     |      |       | iS                                 |                   | 34.5   |
|      |       | 11.5N; 44.5E.                         | Gulf of Aden                       |    |        |      |       | Local, Small.                      |                   | 45     |
| 105  |       | e(P)                                  | 10                                 | 19 | 49     | 127  |       | iP                                 | 01                | 08     |
|      |       | Iran.                                 |                                    |    |        |      |       | Local, very small.                 |                   | 14     |
| 106  |       | i                                     | 13                                 | 16 | 14     | 128  |       | iP                                 | 01                | 35     |
| 107  |       | i(P)                                  | 14                                 | 49 | 03.5   |      |       | iS                                 |                   | 02.5   |
| 108  | 21    | i(P)                                  | 00                                 | 53 | 25     | 129  |       | iP                                 | 02                | 01     |
|      |       | Local ?                               |                                    |    |        |      |       | iS                                 |                   | 18     |
| 109  |       | iP                                    | 06                                 | 43 | 25     |      |       | Small                              |                   |        |
| 110  |       | eiP                                   | 09                                 | 31 | 23     | 130  |       | iP                                 | 02                | 08     |
|      |       |                                       |                                    |    |        |      |       | iS                                 |                   | 09     |
| 111  |       | iP                                    | 09                                 | 31 | 52 C   | 131  |       | eiP                                | 14                | 31     |
|      |       | i(S)                                  |                                    | 33 | 18     |      |       | eiS                                |                   | 21     |
| 112  |       | e                                     | 15                                 | 46 | 25     | 132  |       | iP                                 | 14                | 34     |
|      |       |                                       |                                    |    |        |      |       | Local                              |                   | 52     |
| 113  |       | iP                                    | 16                                 | 06 | 44     | 133  |       | eiP                                | 15                | 00     |
|      |       | iS                                    |                                    | 08 | 12     |      |       | ePP                                |                   | 03     |
|      |       | Turkey                                |                                    |    |        |      |       | 52.4N; 174.5E.                     |                   | 21 C   |
| 114  |       | eiP                                   | 18                                 | 19 | 41     |      |       | Aleutian Is.                       |                   | 31     |
|      |       | e                                     |                                    | 21 | 35     |      |       | M = 5 1/2 - 5 3/4.                 |                   |        |
| 115  |       | eiP                                   | 19                                 | 18 | 38 D   | 134  | 27    | iP                                 | 07                | 13     |
|      |       | 28.6N; 55.2E.                         | Iran                               |    |        |      |       | 27.8N; 39.4E.                      |                   | 15.5+2 |
|      |       |                                       |                                    |    |        |      |       | M = 5 3/4 - 6 1/2                  |                   |        |
| 116  |       | i(P)                                  | 20                                 | 37 | 05 C   |      |       | Yunan Province, China.             |                   |        |
|      |       | 7.6S; 110.0E.                         | Near N. coast of Java. h = 163 km. |    |        |      |       | iP                                 | 08                | 04     |
|      |       |                                       |                                    |    |        |      |       | 54.6N; 157.7E.                     |                   | 40.5+2 |
| 117  | 22    | e                                     | 00                                 | 42 | 38     | 135  |       | Kamchatka                          |                   |        |
| 118  |       | iP                                    | 00                                 | 59 | 58     | 136  |       | ei(P)                              | 10                | 55     |
|      |       | 42.4N; 19.6E.                         | N. Albania Yugoslavia border       |    |        |      |       | 39+2                               |                   |        |
| 119  |       | e(P)                                  | 04                                 | 23 | 1(8)   | 137  |       | eiP                                | 22                | 05     |
|      |       |                                       |                                    |    |        |      |       | 27.5N; 99.6E.                      |                   | 3(6)+2 |
| 120  |       | eiP                                   | 09                                 | 09 | 18 D   |      |       | Yunan Prov. China.                 |                   |        |
|      |       | Iran                                  |                                    |    |        |      |       | i(S)                               | 00                | 31     |
| 121  |       | iP                                    | 16                                 | 12 | 08     | 138  |       | 1(7)                               |                   |        |
|      |       | From 23                               | 14                                 | 00 |        | 139  |       | i(S)                               |                   | 32     |
|      |       | interruptions in Time - signal system |                                    |    |        | 140  |       | eP                                 | 13                | 27     |
| 122  | 23    | iP                                    | 16                                 | 40 | 32.4 D |      |       | 4.7S; 102.7E.                      |                   | 03     |
|      |       | 28.5N; 55.5E.                         | Iran                               |    |        |      |       | Isar S. coast of Sumatra.          |                   |        |
| 123  | 24    | iP                                    | 09                                 | 46 | 32 C   | 141  | 29    | iPKP                               | 09                | 42     |
|      |       | 4.1N; 97.5E.                          | Sumatra h = 188 km.                |    |        |      |       | iPP                                |                   | 44     |
|      |       |                                       |                                    |    |        |      |       | iPKS                               |                   | 45     |
| 124  | 25    | eP                                    | 12                                 | 44 | 12     |      |       | 13.8S; 166E.                       |                   | 37     |
|      |       | 29 N; 54.2E.                          | Iran.                              |    |        |      |       | New Hebrides Is. M = 5 1/2 - 6 1/2 |                   |        |
|      |       |                                       |                                    |    |        | 142  |       | i                                  | 11                | 18     |
|      |       |                                       |                                    |    |        |      |       | 06                                 |                   |        |







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| No. | Date | Phase     | G. | M.       | T.         | No. | Date | Phase | G. | M. | T. |
|-----|------|-----------|----|----------|------------|-----|------|-------|----|----|----|
| 143 | 29   | i(P)      | 14 | 54       | 08 C       | 145 | i(P) | 05    | 37 | 46 |    |
| 144 | 30   | iP<br>eiS | 05 | 07<br>08 | 14 C<br>39 |     |      |       |    |    |    |

E picentre data - chiefly from U.S.C.G.S.

E. Arieh

Chief, Seismological Section

E. Aboodi

Seismological Assistant

N.B. Mr. E. Arieh would stay for about a year at California Institute of Technology. In his absence Mr. E. Aboodi would be in charge.

(No. 29 omitted)

|    |   |                     |    |    |      |
|----|---|---------------------|----|----|------|
| 29 | 4 | iP                  | 07 | 40 | 35 D |
|    |   | iPP                 |    | 42 | 08   |
|    |   | iPPP                |    |    | 29   |
|    |   | eiS                 |    | 46 | 57   |
|    |   | 33.8W; 81.8E. Tibet |    |    |      |
|    |   | M = 6 1/2           |    |    |      |



STATE OF ISRAEL  
 Ministry of Development  
 Geological Survey  
 Division of Quaternary and Recent Geology  
 Seismological Section  
 JERUSALEM



Address:

Seismological Section  
 Generali Building  
 Jerusalem, Israel

JERUSALEM PROVISIONAL READINGS  
 BULLETIN No. 86  
 JULY - AUGUST 1961

J U L Y

| No. | Date | Phase   | G. | M.             | T.                   | No. | Date | Phase  | G. | M.       | T.          |
|-----|------|---|----|----------------|----------------------|-----|------|--|----|----------|-------------|
| 1   | 1    | eP<br>eS<br>South of Cyprus                         | 18 | 18<br>19       | 35<br>12             | 18  | 8    | eP<br>Iran?  | 06 | 41       | 15          |
| 2   |      | iPKP<br>17.9S; 178.4W. Fiji Is. h=601 Km.           | 19 | 09             | 38.5D                | 19  |      | iP<br>Near Greece?   | 10 | 25       | 50          |
| 3   |      | e(P)  | 23 | 56             | 51                   |     |      | ePKP<br>ePP<br>20.1S; 169.8E. Loyalty Is.                        | 15 | 54<br>56 | 00<br>57    |
| 4   | 2    | e(S)  | 04 | 12             | 54                   | 21  |      | eiPKP  | 22 | 08       | 09          |
| 5   | 4    | iP<br>iS<br>Very small                              | 13 | 14             | 25<br>29-5           |     |      | eiPP<br>iPKS<br>20.2S; 169E. Loyalty Is. reg.                    |    | 11       | 04<br>50    |
| 6   | 5    | e<br>ei   | 00 | 24<br>25       | 20<br>35             | 22  |      | iPKP<br>20.4S. 174.4W Tonga Is. reg.                             | 22 | 33       | 04C         |
| 7   |      | iP<br>Iran?   | 08 | 21             | 59D                  |     |      |  |    |          |             |
| 8   | 6    | iP<br>7 S; 13.1W. Ascension Is                      | 16 | 18             | 35.5D                | 23  | 9    | eP<br>eS   | 00 | 14<br>16 | 18<br>48    |
| 9   |      | iPKP<br>i<br>ePP<br>ePKS                            | 22 | 28<br>31<br>32 | 48<br>53<br>43<br>26 | 24  |      | iP<br>eiS<br>28.8N 54.7E Iran                                    | 08 | 09<br>13 | 48C<br>20   |
| 10  | 7    | iP<br>46.7N; 153E. Kurile Is. h=106 Km.             | 08 | 17             | 50                   | 25  | 9    | e(P)   | 14 | 42       | 38          |
| 11  |      | e(S)  | 10 | 44             | 23                   | 26  | 10   | i(PP)<br>18.4N; 104.9W. off coast of Jalisco, Mexico. M=4½       | 13 | 12       | 59          |
| 12  |      | ePKP<br>5.7S; 149.7E New Britian M=6-6¼             | 13 | 29             | 40                   |     |      |  |    |          |             |
| 13  |      | iP<br>24.8N; 98.5E Burma-China border.              | 17 | 11             | 31C                  | 27  | 11   | iP<br>iPP<br>8.3N; 93.3E. Nicobar Is. h=163 Km.                  | 09 | 41<br>43 | 42.5C<br>41 |
| 14  |      | iP<br>iS<br>Near Crete?                             | 19 | 34<br>36       | 31<br>29             | 28  | 12   | eP<br>eS   | 23 | 52<br>53 | 29.5<br>36  |
| 15  |      | iPKP<br>iPP<br>20.1S 169.2E Loyalty Is. Reg. M=5-5¼ | 22 | 38<br>41       | 52C<br>40            | 29  | 13   | eiP<br>26.8N; 54.3E. Iran  | 09 | 33       | 00          |
| 16  |      | ei  | 23 | 07             | 50                   | 30  |      | iP<br>ipP<br>22.8N. 122.7E. off East coast of Formosa. h=100 Km. | 21 | 56       | 22.5<br>37  |
| 17  | 8    | ePKP<br>eiPP<br>eiPKS<br>20S; 168.8E, Loyalty Is.   | 02 | 54<br>57<br>58 | 43<br>30<br>24       | 31  | 14   | iP<br>14.6W; 120.9E. Luzon, Philippine Is, h=170 Km.             | 00 | 17       | 37D         |

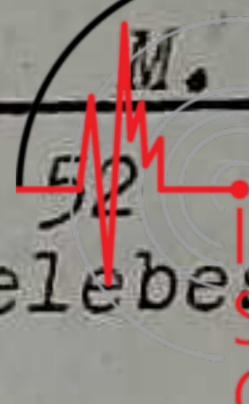


| No. | Date | Phase   | G. | M.             | T.              |
|-----|------|---|----|----------------|-----------------|
| 32  | 14   | eiP<br>e(S)   | 12 | 32<br>33       | 09<br>36        |
| 33  | 15   | iP<br>13.1N; 120.4E. Luzon P. Is.                                       | 00 | 29             | 56C             |
| 34  |      | iP  | 06 | 13             | 01              |
| 35  |      | eP<br>Iran?   | 11 | 24             | 52.5            |
| 36  |      | iP<br>ipP<br>6.8S; 116.9E. Java Sea<br>h=565 Km.                        | 14 | 07<br>09       | 17C<br>16       |
| 37  |      | iPKP<br>20.3S; 178.2W. Fiji Is. reg.<br>h=511 Km.                       | 20 | 52             | 11.5            |
| 38  | 16   | e(P)  | 05 | 31             | 24              |
| 39  |      | iPKP<br>19S; 175.4W. Tonga Is.<br>h=200Km.                              | 05 | 42             | 08D             |
| 40  |      | iPKP<br>ipPKP<br>18.6S; 175.7W, Tonga Is<br>h=172 Km.                   | 07 | 07             | 05D<br>52       |
| 41  |      | ePKP<br>22.7S; 171.2E. Loyalty Is.<br>M=5 $\frac{1}{2}$                 | 14 | 21             | 08              |
| 42  |      | eP<br>iS<br>Near Israel - Lebanon<br>border                             | 19 | 12             | 3(2)<br>56.5    |
| 43  |      | iPKP<br>34.3S; 178.5W Kermadec Is.<br>reg. h=191 Km.                    | 20 | 19             | 58              |
| 44  |      | iP<br>49.3N; 155.1E. Kurile Is.   | 21 | 21             | 14C             |
| 45  |      | iPKP<br>18S; 178.3W. Fiji Is Reg.<br>h=591 Km.                          | 23 | 22             | 09D             |
| 46  | 17   | iP<br>iS<br>27.1N 54.5E Iran  | 05 | 17<br>20       | 28<br>52        |
| 47  |      | iP<br>iS<br>Near Dead Sea ?   | 11 | 26             | 13.5D<br>19     |
| 48  |      | iP<br>iS  | 12 | 44<br>45       | 46<br>15        |
| 49  |      | iP<br>35.7N; 141.2E. Near East<br>coast of Honshu, Japan                | 16 | 32             | 44C             |
| 50  | 18   | iP<br>iPP<br>iS<br>29.4N; 131.6E. N. RyuKyu<br>Is. m=6 $\frac{1}{2}$ -7 | 14 | 15<br>18<br>25 | 48D<br>57<br>53 |

| No.                        | Date | Phase.   | G. | M.       | T.       |
|----------------------------|------|--|----|----------|----------|
| 51                         | 18   | iP<br>29.9N; 131.2E. N. RyuKyu<br>Centre           | 14 | 46       | 11D      |
| 52                         |      | iP<br>29.5. 131.3E. N. RyuKyu<br>Is.               | 15 | 28       | 23       |
| 53                         |      | eiP<br>29.5N; 131.7E. N. RyuKyu<br>Is.             | 15 | 49       | 09       |
| 54                         |      | eiP<br>29.5N. 131.2E. N. RyuKyu<br>Is.             | 16 | 32       | 16       |
| 55                         |      | iP<br>29.5N; 131.8E. N. Ryukyu<br>Is.              | 17 | 00       | 48       |
| 56                         |      | iP<br>29.3N; 131.6E. N. RyuKyu Is                  | 19 | 41       | 21       |
| 57                         |      | iP<br>13.8N; 56.6E. Arabian Sea                    | 21 | 32       | 12C      |
| 58                         |      | iP<br>29.7N; 131.4E N. RyuKyu Is.                  | 23 | 54       | 47       |
| 59                         | 19   | eiP<br>Iran ?                                      | 01 | 25       | 39       |
| 60                         |      | eP<br>29.2N; 131.3E. N. RyuKyu Is.                 | 05 | 42       | 08       |
| 61                         |      | iP<br>29.6N 131.7E N. RyuKyu Is.                   | 06 | 45       | 31D      |
| 62                         |      | eP   | 10 | 44       | 2(6)     |
| 63                         |      | eiP<br>29.8N 131.5E. N. RyuKyu Is                  | 10 | 47       | 53       |
| 64                         |      | iP<br>29.6N; 131.5E N. RyuKyu Is.                  | 12 | 10       | 55D      |
| 65                         |      | eP<br>30.3N; 131.4E. N. RyuKyu Is.                 | 19 | 57       | 45       |
| 66                         |      | iP<br>eiS<br>37.7N; 20.2E. Near coast of<br>Greece | 23 | 04<br>06 | 09<br>34 |
| 67                         | 20   | i(P)   | 02 | 23       | 19-5     |
| 68                         |      | iP<br>29.5N; 131.2E N. RyuKyu Is.                  | 03 | 16       | 52       |
| 69                         |      | iP<br>28.4 N 133.6E .N. RyuKyu Is                  | 09 | 14       | 51.5     |
| 70                         |      | eiPKP<br>17.5S; 178.7W Fiji Is.<br>h=570 Km.       | 15 | 29       | 09       |
| from                       |      |  | 19 | 30       |          |
| until 21                   |      |  | 14 | 45       |          |
| Seismometer out of action. |      |  |    |          |          |



| No.   | Date | Phase   | G. | M. | T.    |
|-------|------|---|----|----|-------|
| 71    | 21   | iP  | 19 | 03 | 03D   |
|       |      | 29.6N; 131.6E. N.RYuKyu Is.                           |    |    |       |
| 72    |      | iPKP  | 19 | 25 | 11    |
|       |      | 22.4S 176 W. Tonga Is. reg.                           |    |    |       |
| From  |      | 20  | 18 |    |       |
| Until | 22   | 01  | 00 |    |       |
|       |      | Seismometer out of action                             |    |    |       |
| 73    |      | ePKP  | 10 | 47 | 55    |
|       |      | 20.2S 174W Tonga Is.                                  |    |    |       |
| 74    |      | i(P)  | 22 | 41 | 40    |
| 75    | 23   | eiPKP   | 14 | 23 | 03    |
|       |      | eP  |    | 25 | 49    |
|       |      | eiPKS   |    | 26 | 38    |
|       |      | 18.5S; 168.2E. New Hebrides Is. m=5 $\frac{3}{4}$ -6. |    |    |       |
| 76    |      | iPKP  | 14 | 57 | 28.5D |
|       |      | ePP   | 15 | 00 | 01    |
|       |      | 6.9N; 123.5W. Pacific Ocean                           |    |    |       |
|       |      | m=5 $\frac{3}{4}$ -6                                  |    |    |       |
| 77    |      | iP  | 15 | 02 | 01    |
|       |      | Local   |    |    |       |
| 78    |      | eiPKP   | 15 | 49 | 38    |
|       |      | ePKS  |    | 53 | 09    |
|       |      | 18.5S 168E. New Hebrides Is.                          |    |    |       |
|       |      | h=107 Km  |    |    |       |
| 79    |      | iPKP  | 22 | 10 | 28C   |
|       |      | i   |    |    | 39    |
|       |      | ePP   |    | 13 | 16    |
|       |      | eiPKS   |    | 14 | 07    |
|       |      | ePPP  |    | 16 | 14    |
|       |      | 18.3S; 168.3E, New Hebrides Is.                       |    |    |       |
| 80    |      | iPKP  | 22 | 21 | 17    |
|       |      | eiPKS   |    | 24 | 49    |
|       |      | eiPPP   |    | 26 | 11    |
|       |      | ei  |    |    | 31    |
|       |      | 18.4S; 168.3E. New Hebrides Is.                       |    |    |       |
| 81    | 24   | iPKP  | 01 | 49 | 36D   |
|       |      | ipPKP   |    | 51 | 57    |
|       |      | 21.1S; 179.3W. Fiji Is reg. h=642 Km                  |    |    |       |
| 82    |      | iP  | 09 | 00 | 56C   |
|       |      | 0; 124.1E. N.Celbes reg. h=159 Km                     |    |    |       |
| 83    |      | iP  | 23 | 26 | 16    |
|       |      | iS  |    | 27 | 50    |
| 84    | 25   | iP  | 10 | 40 | 18    |
| From  |      | 11  | 00 |    |       |
| Until |      | 16  | 04 |    |       |
|       |      | Seismometer out of action                             |    |    |       |


| No. | Date | Phase  | G. | M. | T.    |
|-----|------|--|----|----|-------|
| 85  | 25   | iP   | 18 | 52 | 23C   |
|     |      | 0; 124.7E N.Celebes.  |    |    |       |
| 86  | 26   | ePKP   | 01 | 53 | 59    |
|     |      | 35.7S; 104.5W S.E. of Easter- Is.  |    |    |       |
| 87  |      | eiPKP  | 09 | 38 | 33    |
|     |      | 37.1S; 177.3E. N.Island N.Z. h=100Km   |    |    |       |
| 88  | 27   | iP   | 00 | 01 | 47    |
|     |      | iS   |    | 03 | 14    |
| 89  |      | eiPKP  | 02 | 26 | 32.5  |
|     |      | 30.4S; 178.7W. Kermadec Is   |    |    |       |
| 90  |      | iP   | 14 | 52 | 12D   |
|     |      | Local  |    |    |       |
| 91  |      | iP   | 18 | 37 | 47.5  |
|     |      | iS   |    | 39 | 22.5  |
|     |      | 35.2N; 25.4E. Aegean Sea   |    |    |       |
| 92  | 28   | ePKP   | 01 | 24 | 28    |
|     |      | 2.2S; 771 W. Ecuador h=136Km. M=5 $\frac{3}{4}$ -6 $\frac{1}{4}$   |    |    |       |
| 93  |      | iP   | 15 | 32 | 03C   |
|     |      | 43.4N; 146.1E. Kurile Is.  |    |    |       |
| 94  |      | iP   | 16 | 12 | 39    |
| 95  |      | iP   | 19 | 09 | 34    |
|     |      | iS   |    | 11 | 00    |
|     |      | Near Rhodes?   |    |    |       |
| 96  |      | iP   | 20 | 03 | 36.5D |
|     |      | iS   |    | 05 | 02.5  |
| 97  |      | iP   | 20 | 22 | 21    |
|     |      | iS   |    | 23 | 48    |
| 98  |      | iP   | 20 | 31 | 51.5  |
|     |      | iS   |    | 33 | 17.5  |
| 99  |      | i(S)   | 23 | 56 | 06    |
| 100 | 29   | i(S)   | 06 | 47 | 56.5  |
| 101 |      | iPKP   | 16 | 47 | 24C   |
|     |      | 23.9S; 176.1W. Tonga Is. reg. M=5 $\frac{1}{2}$  |    |    |       |
| 102 | 30   | ePKP   | 15 | 56 | 12    |
|     |      | 20.6S; 174.1W Tonga Is   |    |    |       |
| 103 | 31   | iP   | 00 | 27 | 37D   |
|     |      | Java?  |    |    |       |
| 104 |      | iP   | 03 | 05 | 56    |
|     |      | iS   |    | 07 | 01    |

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| No.    | Date | Phase  | G.       | M.             | T.                |
|--------|------|--|----------|----------------|-------------------|
| 1      | 1    | ePKP<br>eiPP<br>9.8S; 160.5E Solomon Is.<br>reg. $M=6\frac{1}{2}-6\frac{3}{4}$ | 05<br>06 | 58<br>00       | 57<br>46          |
| 2      | 2    | iP<br>iS<br>Near Crete?  | 02       | 18<br>19       | 07<br>32          |
| 3      | 3    | iP<br>14.3N; 52.2E Gulf of Aden  | 00       | 46             | 41                |
| 4      |      | eiP<br>12.1N; 143.8E Mariana Is.<br>reg.                                       | 23       | 47             | 21                |
| From 4 | 4    |  | 14       | 40             |                   |
| 5      | 5    |  | 16       | 40             |                   |
|        |      | Time Signal System out of action.  |          |                |                   |
| 5      | 6    | iP<br>iS<br>35.2N; 26.8E. Crete  | 09       | 05<br>07       | 59<br>28          |
| 6      |      | iP<br>Local  | 14       | 46             | 57D               |
| 7      | 7    | eiP<br>42.2N; 142.1E. Hokkaido<br>Japan.                                       | 04       | 14             | 24                |
| 8      |      | iP<br>2.7S; 121.6E. Celebes  | 04       | 35             | 17C               |
| 9      |      | iPKP<br>28.1S; 176.5W. Kermadec<br>Is. reg.                                    | 12       | 42             | 04D               |
| 10     |      | iPKP<br>27-5S; 177.1W Kermadec<br>Is. reg.                                     | 17       | 17             | 42 <sup>±</sup> 2 |
| 11     | 8    | iPKP<br>28.1S; 176.5W. Kermadec<br>Is. reg.                                    | 00       | 38             | 47                |
| 12     |      | iP<br>iS   | 02       | 09<br>10       | 10.50<br>17       |
| 13     |      | eiP<br>eiPP<br>iPS<br>50.9N; 170.7W Fox Is.<br>Aleutian Is. $M=5-6\frac{1}{4}$ | 12       | 31<br>35<br>44 | 42<br>31<br>09    |
| 14     | 9    | e(S)   | 03       | 22             | 26                |
| 15     |      | eiP<br>40.6N; 142.8E. Near coast<br>of N. Honshu, Japan                        | 04       | 14             | 44                |



| No.      | Date | Phase   | G. | M.                                     | T.  |
|----------|------|---|----|--|---|
| 16       | 9    | iPKP<br>ePP<br>iPKS<br>19.1S; 168.7E New<br>Hebredes Is. reg. $M=5\frac{3}{4}$  | 16 | 21<br>24<br>25                         | 55<br>18.5<br>49                                |
| 17       | 11   | iP<br>0.2N 124E N. Celebes<br>h=143 Km  | 11 | 17                                     | 18  |
| 18       |      | iP<br>iPP<br>iPPP<br>iS<br>42.9N; 145.1E. Eastern<br>Hokkaido, Japan  | 16 | 03<br>07<br>09<br>14                   | 51C<br>00<br>09<br>24                           |
| 19       |      | eiP<br>2.8S; 122.1E Eastern<br>celebes  | 22 | 50                                     | 18C   |
| 20       |      | iP<br>41.5N; 141.9E. off N. coast<br>of Honshu, Japan,<br>h=122 Km  | 23 | 23                                     | 53C   |
| 21       |      | iP<br>42.8N; 145E Eastern<br>Hokkaido, Japan.   | 23 | 46                                     | 08C   |
| From 12  |      |   | 15 | 00                                     |   |
| Until 16 |      |   | 09 | 00                                     |   |
|          |      | Time Signal System out of action  |    |  |   |
| 22       |      | i   | 16 | 26                                     | 44  |
| 23       | 17   | iP  | 06 | 23                                     | 27  |
| 24       |      | ePKP<br>34.4S; 109.0W. S. of<br>Eastern Is.   | 06 | 56                                     | 23  |
| 25       |      | iP<br>ipP<br>i<br>iPP<br>ipPP<br>iPPP<br>eiS<br>isS<br>46.3N; 149.3E. Kurile Is<br>h=186 Km $M=6\frac{1}{2}-6\frac{3}{4}$ | 21 | 28<br>29<br>31<br>32<br>33<br>38<br>39 | 36.5D<br>19<br>20<br>44<br>27<br>30<br>23<br>52 |
| 26       | 19   | iP<br>43.1N; 145E. Eastern<br>Hokkaido, Japan   | 02 | 55                                     | 18C   |



| No. | Date | Phase   | G. | M.   | T.   |
|-----|------|---|----|--|--|
| 27  | 19   | eiP<br>epP<br>esP<br>iPKP<br>iPP<br>ipPP<br>isPP<br>eSKS<br>iSP<br>iPS      | 05 | 23<br>25<br>26<br>27<br>29<br>30<br>32<br>36<br>37 | 17<br>35<br>4(1)<br>14.5<br>56<br>50<br>53<br>40<br>26<br>28 |
|     |      | 10.7S; 71W. Peru-Brazil border h=649Km M=7 <sup>3</sup> / <sub>4</sub> -8   |    |  |  |
| 28  | 19   | iP  | 05 | 45   | 45.5   |
|     |      | 36N; 136.5E off West coast of Honshu, Japan M=7 <sup>1</sup> / <sub>2</sub> |    |  |  |
| 29  | 20   | iPKP<br>ipPKP   | 05 | 22<br>25   | 59<br>14   |
|     |      | 17.8S; 178.8W. Fiji Is. h=592 Km  |    |  |  |
| 30  | 21   | iPKP<br>e(PKS)<br>e(PP)   | 16 | 26<br>30   | 43D<br>18<br>40  |
|     |      | 17.8S; 174.4W. Tonga Is M=5 <sup>3</sup> / <sub>4</sub> -6                  |    |  |  |
| 31  |      | iP  | 17 | 12   | 43.5C  |
|     |      | 40.9N; 138.9E. off coast of N. Honshu, Japan                                |    |  |  |
| 32  | 22   | ei  | 09 | 08   | 45   |
| 33  |      | iP<br>i(S)  | 13 | 33<br>34   | 51<br>03   |
| 34  | 23   | iP  | 04 | 18   | 29.5D  |
|     |      | 38.7N; 68.7E. Tadzhik SSR   |    |  |  |
| 35  |      | eiP<br>eiS  | 19 | 19<br>21   | 49<br>24   |
| 36  | 24   | iP  | 05 | 04   | 41D  |
|     |      | 42.9N; 145.3E. Eastern Hokkaido, Japan                                      |    |  |  |
| 37  |      | iP<br>iS  | 13 | 31<br>32   | 13<br>45   |
| 38  |      | i(P)  | 17 | 46   | 12   |
| 39  |      | iP  | 22 | 53   | 11.5C  |
|     |      | 43.N; 145E Eastern Hokkaido, Japan  |    |  |  |
| 40  | 25   | e   | 08 | 08   | 40   |
| 41  |      | ei  | 19 | 58   | 38   |
| 42  | 27   | iP  | 02 | 02   | 40C  |
|     |      | 15.3S; 13.1W. S.of Ascension Is.  |    |  |  |

| No. | Date | Phase  | G. | M.             | T.                     |
|-----|------|--|----|----------------|------------------------|
| 43  | 27   | iP   | 16 | 34             | 42C                    |
|     |      | 46.6N; 154.1E. Kurile Is. M=5 <sup>1</sup> / <sub>4</sub> -6 <sup>1</sup> / <sub>2</sub>                     |    |                |                        |
| 44  |      | eP<br>ePP  | 17 | 01<br>04       | 19<br>42               |
|     |      | 18.3N; 146.6E Mariana Is M=5 <sup>1</sup> / <sub>2</sub> -6 <sup>1</sup> / <sub>2</sub>                      |    |                |                        |
| 45  |      | iP   | 20 | 03             | 17.5I                  |
|     |      | 47.3N; 154E Kurile Is  |    |                |                        |
| 46  |      | iP   | 21 | 08             | 50C                    |
|     |      | 46.8N; 153.9E Kurile Is  |    |                |                        |
| 47  |      | iP<br>iS   | 22 | 11<br>13       | 13D<br>03              |
|     |      | 35.9N; 23.7E. Near W.coast of Crete.   |    |                |                        |
| 48  |      | iP<br>iS   | 23 | 47<br>48       | 17<br>44.5             |
| 49  | 28   | iPKP   | 10 | 02             | 59D                    |
|     |      | 18.6S; 178 W. Fiji Is. h=574 Km.   |    |                |                        |
| 50  |      | eiP  | 18 | 14             | 30                     |
|     |      | 46.8 N; 154E. Kurile Is.   |    |                |                        |
| 51  |      | ePKP   | 20 | 45             | 48                     |
|     |      | 22.9S; 113.4W. Easter Is   |    |                |                        |
| 52  |      | e<br>i   | 23 | 13             | 06<br>37               |
| 53  | 30   | iP<br>iS   | 04 | 54<br>55       | 18<br>48               |
|     |      | Near Dodecanese Is?  |    |                |                        |
| 54  | 31   | iPKP   | 00 | 42             | 41D                    |
|     |      | 28.1S; 176.7W. Kermadec Is.  |    |                |                        |
| 55  |      | iPKP<br>iPP<br>eipPP<br>eisPP  | 02 | 06<br>08<br>09 | 03.5<br>47<br>34<br>39 |
|     |      | 10.6S; 70.9W. Peru Brazil Border h=626Km. M=6 <sup>1</sup> / <sub>2</sub> -7 <sup>1</sup> / <sub>4</sub>     |    |                |                        |
| 56  |      | iPKP   | 02 | 14             | 35                     |
|     |      | interfering with preceding shock 10.4S; 70.7W. Peru-Brazil border h= 629Km M=7-7 <sup>1</sup> / <sub>2</sub> |    |                |                        |

N.B. Epicentre data mostly from U.S.C.G.S.

E. Aboodi  
Seismological Section



STATE OF ISRAEL  
Ministry of Development  
Division of Quaternary and Recent Geology  
Seismological Section  
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Jerusalem, Isarel.

Jerusalem Provisional Readings

Bulletin No. 87

September - October 1961

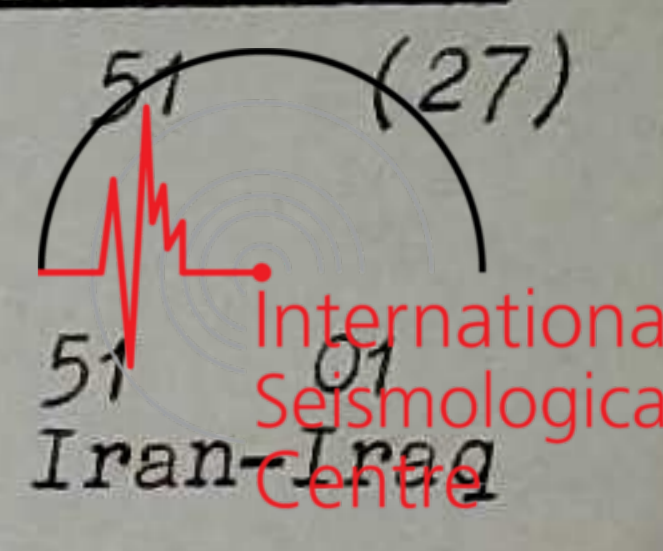
September

| No. | Date | Phase   | G. | M. | T.     | No. | Date | Phase   | G. | M.             | T.             |
|-----|------|---|----|----|--------|-----|------|---|----|----------------|----------------|
| 1   | 1    | eP<br>ipP<br>eiPP<br>59.3S; 27.3W. Sandwich Is.<br>reg. h=131 Km. M=7 $\frac{1}{2}$ | 00 | 23 | 38     | 12  | 4    | iP<br>eS  | 23 | 29<br>31       | 33.5<br>40     |
| 2   |      | ipPKP<br>16.4S; 176.7W. Fiji Is. reg.<br>h = 437 Km                                 | 16 | 55 | 49 D   | 13  | 5    | eP<br>eS<br>38.4N; 23.5E. Near Coast of<br>Greece. Slight damage.   | 00 | 42<br>44       | 26<br>26       |
| 3   |      | ipPKP<br>18.0S; 178.3W. Fiji Is. reg.<br>h=619 Km.                                  | 19 | 00 | 11.5 C | 14  |      | eiP<br>eS<br>38.3N; 23.5E. Near coast of<br>Greece                  | 01 | 19<br>21       | 44<br>5(2)     |
| 4   | 2    | iP<br>52N; 170.9W. Fox Is. Aleutian<br>Is.  | 00 | 39 | 21 C   | 15  |      | iP<br>ePP<br>eS<br>38.6N; 73.3E. Tadzhic S.S.R.                     | 06 | 19<br>20<br>24 | 16<br>26<br>16 |
| 5   |      | iP<br>2S; 6.7E. S.W. of Maldive Is.<br>Indian Ocean. h=132 Km                       | 10 | 58 | 46.5 C | 16  |      | iP<br>eiPP<br>59.8N; 150.6W. Kenai Peninsula<br>M=6-6 $\frac{1}{4}$ | 11 | 47<br>50       | 28 D<br>56     |
| 6   | 3    | iP<br>Local   | 14 | 48 | 33     | 17  |      | eP<br>36.4N; 54.4E. N. Iran   | 14 | 13             | 45             |
| 7   | 4    | iP<br>30N; 138.3E. S. of Honshu,<br>Japan, h=493 Km.                                | 03 | 29 | 11     | 18  | 6    | eiP<br>eiS<br>Near Rhodes ?   | 00 | 04<br>05       | 30<br>50       |
| 8   |      | iP<br>46.9N; 154.2E. Kurile Is.   | 05 | 05 | 47 D   | 19  |      | iP<br>iS<br>Dodecanese Is?  | 08 | 18<br>19       | 24<br>51.5     |
| 9   |      | iP<br>51.4N; 178.1W. Adreanof' Is.<br>Aleutian Is. M=6 $\frac{1}{4}$                | 10 | 02 | 19 C   | 20  | 7    | i   | 07 | 31             | 17 C           |
| 10  |      | eP  | 10 | 24 | 44     | 21  |      | i<br>i  | 07 | 47             | 37<br>47       |
| 11  |      | eiPKP<br>20.2S; 175.8W. Tonga Is. reg.<br>h=181 Km.                                 | 22 | 53 | 09     | 22  |      | i   | 07 | 48             | 08             |



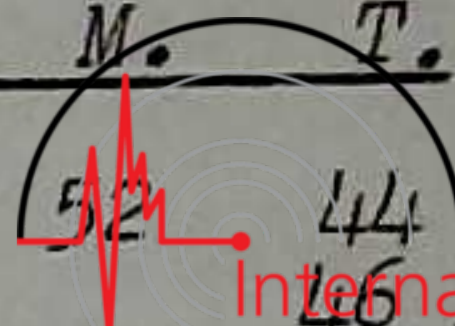
|    | Date | Phase   | G. | M.             | T.             |
|----|------|---|----|----------------|----------------|
|    | 7    | iP<br>iS  | 20 | 50<br>51       | 21 C<br>15     |
| 4  | 8    | iP<br>iPP<br>iSKS<br>56.1S; 27.3W. Sandwich Is.<br>reg. h=125Km. M=7½-8 | 11 | 40<br>44<br>50 | 20<br>32<br>51 |
| 25 |      | e   | 17 | 46             | 21             |
| 26 |      | eP  | 18 | 01             | 07             |
| 27 | 9    | iP<br>iS<br>Jebel ed Druze, Syria ?                                     | 01 | 02<br>03       | 37<br>02       |
| 28 |      | iP<br>33.8N; 139.6E. Off coast of<br>Honshu, Japan. h=151 Km.           | 09 | 28             | 21             |
| 29 |      | iP<br>iS<br>Near Crete ?  | 21 | 11<br>13       | 43<br>12       |
| 30 | 10   | iP<br>37.2N; 36.6E. Turkey  | 16 | 18             | 44.5           |
| 31 |      | iPKP<br>27.6S; 177.8W. Kermadec Is.<br>reg. h=152 Km.                   | 18 | 28             | 43             |
| 32 |      | iPKP<br>17.8S; 178.5W; Fiji Is.reg.<br>h=619 Km.                        | 18 | 34             | 47.5           |
| 33 | 11   | e   | 15 | 06             | 1(0)           |
| 34 |      | iP<br>42.8N; 145.4E. Near East<br>coast of Hokkaido, Japan              | 23 | 59             | 41 C           |
| 35 | 12   | iP<br>43.8N; 147.8E. Near East<br>coast of Hokkaido, Japan<br>h=96 Km.  | 12 | 39             | 30 C           |
| 36 | 13   | e   | 12 | 45             | (29)           |
| 37 |      | eP  | 13 | 19             | 39             |
| 38 |      | eP<br>eiS<br>32.9N; 47.9E. Iran Iraq<br>border h=97 Km.                 | 14 | 08<br>11       | 11.5<br>1(9)   |

| No. | Date | Phase   | G.       | M.       | T.               |
|-----|------|---|----------|----------|------------------|
| 39  | 13   | e   | 14       | 51       | (27)             |
| 40  |      | eiP<br>32.8N; 47.6E. Iran-Iraq<br>border.                                   | 15       | 51       | 01               |
| 41  |      | iPKP<br>eiPP<br>41.6S; 73.2W. S. Chile<br>h=154 Km. M=7                     | 21       | 38<br>40 | 18 C<br>05       |
| 42  | 14   | eiP<br>33.6N; 48.8E. Iran   | 08       | 05       | 44               |
| 43  |      | e   | 09       | 00       | 42               |
| 44  |      | e   | 09       | 37       | 0(6)             |
| 45  | 15   | iP<br>South of Cyprus Felt in<br>Northerb Israel with inten-<br>sity III-IV | 01       | 47       | 00.5 D           |
| 46  | 15   | iP<br>iS<br>Very small. replique?   | 17       | 22<br>23 | 25<br>02         |
| 47  | 16   | iP<br>iS<br>replique ?  | 03       | 52<br>53 | 34<br>11.5       |
| 48  |      | e   | 08       | 43       | 05               |
| 49  | 17   | iP<br>23.9N; 122.2E. Off coast<br>of Formosa                                | 08       | 53       | 39 C             |
| 50  |      | iP<br>iS  | 20<br>21 | 58<br>00 | 54<br>29         |
| 51  | 18   | eiP<br>eS   | 01       | 34<br>36 | 43.5<br>15.5     |
| 52  |      | iP<br>eiS<br>35N; 26.3E Crete   | 05       | 10<br>11 | 27 D<br>49       |
| 53  |      | iP<br>•S<br>40.8N; 50.1E. Caspian Sea                                       | 11       | 04<br>07 | 37 C<br>19       |
| 54  | 19   | eP<br>iPKP<br>eiPP<br>20.3S; 63.2W.S. Bolivia<br>h=609Km. M=6¼-6½           | 02       | 39<br>43 | 2(0)<br>16<br>40 |





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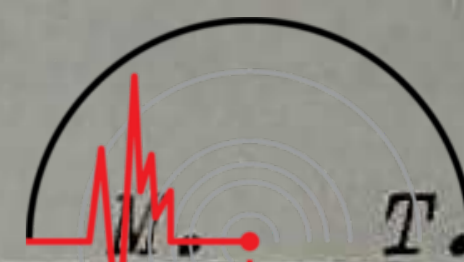


| Date | Phase  | G. | M.       | T.       |
|------|--|----|----------|----------|
| 19   | eP   | 09 | 04       | 03       |
| 56   | eiP<br>2.4N; 126.3E. Molucca Passage                             | 09 | 31       | 48.5 C   |
| 57   | iP<br>1.2N; 125.5E. Molucca Passage                              | 13 | 57       | 24.5 C   |
| 58   | iPKP<br>21.6S; 179W. Fiji Is. reg<br>h=639 Km                    | 18 | 44       | 09 C     |
| 59   | iPKP<br>60.1S; 22.9W. Sandwich Is.<br>reg.                       | 21 | 53       | 04       |
| 60   | 20 ePKP<br>ePP<br>3.6S; 150.9E. New-Britian<br>m=6 $\frac{1}{2}$ | 19 | 22<br>23 | 20<br>27 |
| 61   | 21 eP<br>ei(S)   | 05 | 26<br>28 | 03<br>14 |
| 62   | e  | 08 | 16       | 1(8)     |
| 63   | 22 iP<br>iS<br>South of Cyprus ?                                 | 09 | 23       | 30<br>56 |
| 64   | 23 iP<br>28.5S; 177.2W. Kermadec Is.                             | 08 | 36       | 14.5     |
| 65   | 24 ei  | 08 | 05       | 48       |
| 66   | eP<br>e  | 18 | 13<br>15 | 20<br>35 |
| 67   | iP<br>33.3N; 141.3E. S. of Honshu<br>Japan                       | 21 | 53       | 28.5 C   |
| 68   | 26 ePKP<br>19.9N; 155.3W. Hawaii Is<br>M=5 $\frac{3}{4}$ -6      | 05 | 47       | 46       |
| 69   | eiP<br>eiS   | 15 | 56<br>57 | 28<br>53 |
| 70   | 27 e   | 02 | 35       | 03       |

| No. | Date | Phase   | G. | M.             | T.                 |
|-----|------|---|----|----------------|--------------------|
| 71  | 27   | iPKP<br>i<br>ipPKP<br>17.4S; 178.7W. Fiji Is.             | 06 | 52<br>44<br>54 | 46<br>54<br>C<br>D |
| 72  |      | eP<br>29N; 54.7E. S. of Iran                              | 08 | 25             | 59                 |
| 73  |      | e   | 12 | 25             | 45                 |
| 74  |      | iP<br>52.5N; 168.7W. Fox Is.<br>Aleutian Is.              | 19 | 34             | 05 D               |
| 75  |      | iP<br>iPP<br>52.2N; 168.7W. Fox Is.<br>Aleutian Is.       | 19 | 40<br>44       | 19.5 C<br>05       |
| 76  | 28   | iP<br>3.9S; 102E. Sumatra                                 | 01 | 35             | 24.5 C             |
| 77  |      | i(P)  | 03 | 37             | 19.5               |
| 78  |      | iP<br>iS<br>27.6N; 57.1E. S. Iran                         | 22 | 40<br>44       | 51.5 C<br>35       |
| 79  | 29   | iP<br>42.N; 145.4E. Near East<br>coast of Hokkaido, Japan | 17 | 02             | 54 C               |
| 80  |      | iP<br>ipP<br>0.5N; 122.4E. N. Celebes<br>h=110 Km.        | 19 | 18<br>19       | 49<br>17           |
| 81  |      | e   | 22 | 45             | 03                 |
| 82  | 30   | e(P)<br>e(S)  | 14 | 35<br>37       | 35<br>03           |
| 83  |      | e(P)<br>e(S)  | 16 | 50<br>51       | 23<br>52           |



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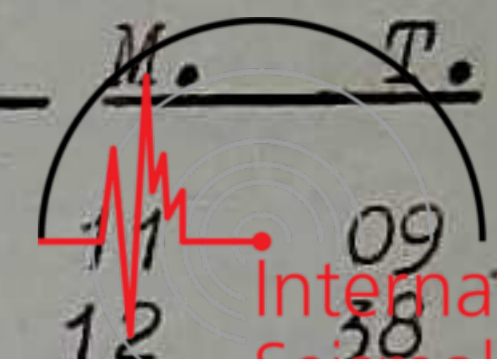


International  
Seismological  
Coast

|    | Date | Phase   | G. | M.       | T.           |
|----|------|---|----|----------|--------------|
| 1  |      | iP<br>34.4N; 104.9E. Kansu Prov.<br>China.            | 00 | 25       | 52           |
| 2  |      | iP<br>iS  | 06 | 31<br>32 | 02<br>07.5   |
| 3  |      | iP<br>23.9N; 122.3E. Near coast<br>of Formosa         | 23 | 23       | 52           |
| 4  | 2    | ePKP<br>33.9S; 179.6E. Off coast<br>of N. Island N.Z. | 06 | 13       | 21           |
| 5  |      | iP<br>7.6S; 10.7E. Near Coast of<br>Java              | 06 | 33       | 33 C         |
| 6  |      | ePKP<br>33.8S; 179.5E. Off coast<br>of N. Is. N.Z.    | 07 | 22       | 32           |
| 7  |      | iP<br>iS<br>37.2N; 22.2E. Near coast of<br>Greece.    | 07 | 24<br>26 | 31.5<br>41   |
| 8  | 3    | iP<br>iS<br>35.4N; 22.7E. Near Crete                  | 01 | 03<br>05 | 37<br>31     |
| 9  |      | eiP<br>eiS<br>37.7N; 50.8E. Caspian Sea               | 09 | 38<br>40 | 28<br>53     |
| 10 | 4    | ePKP<br>13.2S; 166.5E. New-Hebrides<br>Is region.     | 02 | 42       | 32.5         |
| 11 |      | e   | 16 | 51       | 37           |
| 12 | 5    | iP<br>iS  | 14 | 03       | 07<br>14     |
| 13 |      | iPKP<br>19.4S; 169E. Loyalty Is. reg.                 | 18 | 28       | 01.5         |
| 14 |      | iP<br>iS  | 20 | 29<br>31 | 23.5 D<br>12 |
| 15 |      | iP<br>eS  | 20 | 39<br>41 | 18 C<br>1(3) |

| No. | Date | Phase   | G. | M.       | T.           |
|-----|------|---|----|----------|--------------|
| 16  | 5    | eiP<br>24N; 121.9E. Near Coast<br>of Formosa.     | 22 | 46       | 39           |
| 17  | 6    | iP  | 21 | 17       | 56.5 D       |
| 18  | 7    | eP  | 14 | 09       | 36.5         |
| 19  | 8    | e   | 11 | 52       | 04           |
| 20  |      | ei  | 14 | 59       | 18.5         |
| 21  |      | iP<br>eiPP<br>1.6N; 127.3E Halmahera<br>h=178 Km. | 23 | 54<br>58 | 28.5<br>07   |
| 22  | 9    | iP<br>iS  | 01 | 44<br>46 | 45<br>08     |
| 23  |      | iPKP<br>21.9S; 175.5W Tonga Is.<br>reg.           | 01 | 56       | 50           |
| 24  |      | e(P)  | 21 | 28       | 46           |
| 25  |      | e   | 21 | 44       | (50)         |
| 26  | 10   | i(P)<br>ei  | 04 | 03<br>05 | 13.5 D<br>39 |
| 27  |      | iP  | 14 | 14       | 46.5         |
| 28  |      | iPKP<br>16.1S; 176.3W. Fiji Is.<br>reg. h=361 Km. | 19 | 03       | 32.5 D       |
| 29  |      | e(P)<br>i   | 21 | 06<br>07 | 27<br>17     |
| 30  |      | eP  | 22 | 19       | 2(8)         |
| 31  | 11   | ePKP<br>28.8S; 175.9W<br>Kermadec Is.             | 00 | 49       | 31           |
| 32  |      | iP<br>iS<br>Small                                 | 03 | 57<br>58 | 51<br>16.5   |





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| Date | Phase        | G.           | M.       | T.       | No.        | Date | Phase   | G.                 | M.       | T.             |                |
|------|--------------|--------------|----------|----------|------------|------|---|--------------------|----------|----------------|----------------|
| 12   | i(P)<br>i(S) | 00           | 25<br>27 | 59<br>34 | 51         | 18   | eiP<br>eiS  | 19                 | 11<br>12 | 09<br>38       |                |
|      | e(L)         | 15           | 04       | 4(0)     | 52         |      | eP  | 19                 | 26       | 41.5           |                |
| 35   | e(L)         | 16           | 10       | 5(4)     | 53         | 19   | i(P)  | 02                 | 46       | 09 C           |                |
| 36   | e(L)         | 16           | 39       | 21       | 54         |      | iPKP<br>ePP   | 11                 | 37<br>38 | 55<br>58       |                |
| 37   | 13           | iP           | 02       | 34       | 34 C       |      | 37.1S; 69.8N. Argentina<br>h=155 Km M=6 $\frac{1}{4}$               |                    |          |                |                |
|      |              |              |          |          |            |      |   |                    |          |                |                |
| 38   | e(P)         | 03           | 15       | 26.5     | 55         |      | iFKP  | 19                 | 45       | 36 D           |                |
|      |              |              |          |          |            |      | 55.3S; 146.4E. S.of<br>Australia                                    |                    |          |                |                |
| 39   | ePKP         | 05           | 17       | (46)     | 56         |      | iPKP  | 20                 | 45       | 50.5C          |                |
|      |              |              |          |          |            |      | 17.6S; 174W. Tonga Is.  |                    |          |                |                |
| 40   | eiPKP        | 17           | 47       | 50       | 57         | 20   | iP  | 17                 | 55       | 45             |                |
|      |              |              |          |          |            |      | 38.4N; 97.3E. Western<br>China                                      |                    |          |                |                |
| 41   | 14           | e(P)         | 07       | 03       | 3(1)       | 58   | 21  | iPKP               | 12       | 02             | 21.5D          |
|      |              |              |          |          |            |      |   |                    |          |                |                |
| 42   | e            | 19           | 50       | (00)     | 59         |      | iP<br>iS  | 12                 | 43       | 13<br>52.5     |                |
| 43   | eiP          | 22           | 11       | 20       | 60         | 22   | eP<br>i   | 23                 | 00       | 31<br>37.5     |                |
|      |              |              |          |          |            |      |   |                    |          |                |                |
| 44   | 15           | i            | 09       | 45       | 50.5       | 61   | 23  | eP<br>ePKP<br>eiPP | 00       | 23<br>26<br>27 | 20<br>56<br>29 |
|      |              |              |          |          |            |      |   |                    |          |                |                |
| 45   | e            | 11           | 27       | 14.5     |            |      | 60.4S; 33.4W Sandwich Is.   |                    |          |                |                |
| 46   | 16           | i(P)         | 13       | 40       | 55         | 62   |   | iP                 | 04       | 44             | 20.5           |
|      |              |              |          |          |            |      |   |                    |          |                |                |
| 47   | 17           | eP           | 04       | 40       | 0(8)       | 63   |   | eL<br>iM           | 08<br>09 | 58<br>00       | C7             |
|      |              |              |          |          |            |      |   |                    |          |                |                |
| 48   | i(P)         | 14           | 56       | 51       |            |      | Nuclear explosion in<br>Novaya Zemlya                               |                    |          |                |                |
| 49   | 18           | iPKP         | 03       | 09       | 49.5D      | 64   |   | ei(P)<br>ei(S)     | 09       | 25<br>26       | 2(1)<br>42     |
|      |              |              |          |          |            |      |   |                    |          |                |                |
| 50   |              | eiPKP<br>iPP | 17       | 10<br>12 | 49<br>22.5 | 65   |   | iI                 | 14       | 52             | 34 C           |
|      |              |              |          |          |            |      |   |                    |          |                |                |
|      |              |              |          |          |            |      | 3.5N; 126.4E. Molucca<br>Passage M=6 $\frac{1}{4}$ -6 $\frac{1}{2}$ |                    |          |                |                |





| Date | Phase   | G.       | M.             | T.               |
|------|---|----------|----------------|------------------|
| 23   | iP<br>3.5N; 126.6E. Molucca Passage.                              | 15       | 05             | 28               |
| 67   | eiP   | 23       | 06             | 31.5             |
| 68   | 24 iP<br>45N; 146.4E. Off N. coast of Hokkaido, Japan.            | 07       | 37             | 32 D             |
| 69   | 25 eiPKP<br>20.3S; 174.W Tonga Is.                                | 14       | 40             | 16               |
| 70   | iP<br>eiS<br>14.4N; 56.7E. Gulf of Aden                           | 16       | 29<br>34       | 52<br>53         |
| 71   | eiP<br>ei(S)  | 21<br>22 | 59<br>00       | 29<br>52         |
| 72   | 26 eiPP<br>eiPPP<br>3.1S; 147.4E Bismark Sea<br>M=6 $\frac{1}{4}$ | 00       | 57<br>59       | 36<br>42         |
| 73   | iP<br>ePP<br>0.4S; 98.6E. Off W. coast of Sumatra                 | 15       | 38<br>40       | 03<br>23         |
| 74   | iP<br>0.3S; 98.5E. Off west coast of Sumatra                      | 19       | 39             | 32.5 D           |
| 75   | 27 eiP<br>i(S)  | 20       | 45<br>47       | 56<br>59         |
| 76   | 28 iPKP<br>17.7S; 178.9W. Fiji Is.<br>h=605 Km                    | 01       | 53             | 39.5D            |
| 77   | iP<br>33.7N; 48.5E. Iran  | 10       | 49             | 23               |
| 78   | iPKP<br>ePP<br>eiPKS<br>13S; 166E. New Hebrides Is.               | 23       | 03<br>05<br>07 | 43.5<br>51<br>24 |
| 79   | 30 iP<br>50.8N; 158.3E Off S. coast of Kamachatka.                | 05       | 00             | 28.5D            |

| No. | Date          | Phase                                    | G. | M. | T.   |
|-----|---------------|--|----|----|------|
| 80  |               | iP<br>Nuclear explosion in Novaya Zemlya | 08 | 41 | 32 G |
| 81  |               | ei                                       | 14 | 08 | 40   |
|     | from until 31 |  | 15 | 00 |      |
|     |               |  | 05 | 30 |      |
|     |               | Seismometer out of action                |    |    |      |
| 82  |               | iP<br>Italy ?                            | 13 | 42 | 01   |
|     |               | E. Aboodi                                |    |    |      |
|     |               | Seismological Section                    |    |    |      |

N.B. Epicentre data-mostly from U.S.C.G.S.



State of Israel  
Ministry of Development  
Division of Quaternary and Recent Geology  
Seismological Section  
Jerusalem.



Address:

Seismological Section  
Generali Building  
Jerusalem - Israel



JERUSALEM PROVISIONAL READINGS

BULLETIN No. 80 88.

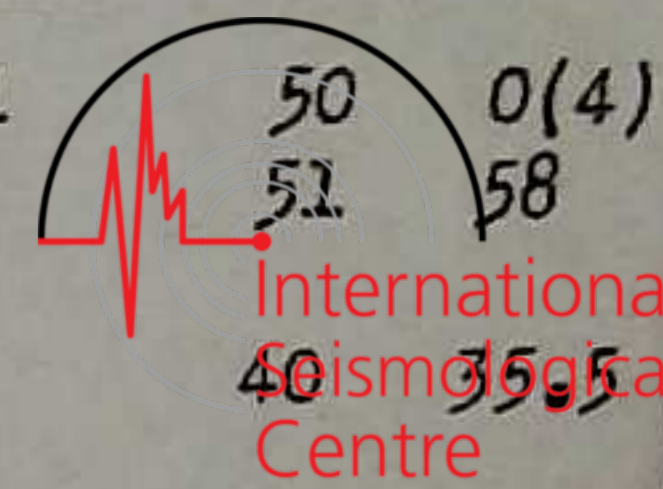
November 61 - February 62  
DEC 1961

November 61

| No. | Date | Phase   | G. | M.       | T.         | No. | Date     | Phase   | G.       | M.       | T.        |
|-----|------|---|----|----------|------------|-----|----------|---|----------|----------|-----------|
| 1   | 1    | i   | 01 | 11       | 14         | 18  | 7        | e   |          | 35       | 07        |
| 2   |      | iP<br>i(S)                                    | 09 | 01<br>03 | 41<br>37   | 19  |          | iP<br>Local   | 13       | 03       | 23D       |
| 3   |      | iP<br>i(S)                                    | 13 | 11<br>12 | 31<br>28   | 20  |          | iPKP<br>24.5S; 179.2W S. of Kermadec Is               | 21       | 29       | 34        |
| 4   | 3    | iP  | 03 | 43       | 28C        | 21  | 9        | iPKP<br>i(pPKP)<br>15.8S; 174.9W Tonga Is<br>h=289Km. | 23       | 26<br>27 | 10<br>23  |
| 5   | 4    | ei(P)<br>Ryukyu Is?                           | 02 | 20       | 56         | 22  | 10       | ePKP<br>14.3S; 71.9W S. Peru                          | 02       | 26       | (53)      |
| 6   |      | iP<br>50N; 155.5E Kuril Is                    | 03 | 50       | 57.5C      | 23  |          | ei(P)   | 07       | 08       | 31        |
| 7   |      | eiP<br>32N; 92.2E Eastern Tibet               | 13 | 13       | 42.5       | 24  |          | eiP   | 13       | 57       | 53        |
| 8   |      | eiP<br>eiS                                    | 19 | 07<br>08 | 0(8)<br>06 | 25  |          | iPKP<br>ipPKP<br>17.5S; 178.8W Fiji Is<br>h=586Km.    | 18       | 19<br>21 | 32D<br>44 |
| 9   |      | i   | 23 | 56       | 25         | 26  | 11       | iP<br>Local   | 00       | 31       | 26.5      |
| 10  | 5    | eiP   | 00 | 18       | 59         | 27  |          | eiP   | 03       | 19       | 03        |
| 11  |      | iP<br>44.2N; 148.4E Kuril Is                  | 03 | 54       | 09         | 28  |          | eiP<br>i(S)   | 08       | 33<br>34 | 50<br>47  |
| 12  |      | eiP<br>28.7N; 55.1E S. Iran                   | 08 | 40       | 34.5       | 29  | 12       | iP<br>0.8N; 29.5E Congo region                        | 02       | 21       | 37D       |
| 13  |      | iP<br>45.7N; 147.9E Kurile Is<br>h=142Km.     | 10 | 48       | 49D        | 30  |          | iPKP<br>23.2S; 180 S. of Fiji Is reg<br>h=556Km.      | 18       | 31       | 08.5      |
| 14  |      | iP<br>Local.                                  | 15 | 00       | 07.5C      | 31  | 12<br>15 | From<br>Until<br>Seismometer out of Action            | 19<br>16 | 00<br>35 |           |
| 15  | 6    | ePKP<br>13.3S; 166E Santa Cruz Is<br>h=210Km. | 05 | 47       | 32.5       | 32  |          | eiPKP<br>21.1S; 175.8W Tonga Is.                      | 19       | 46       | 45        |
| 16  | 7    | iP<br>11.6N; 126.1E Philippine Is             | 01 | 25       | 28D        | 33  | 17       | iP  | 15       | 07       | 03.5      |
| 17  |      | eP<br>Iran?                                   | 08 | 43       | 35         |     |          |   |          |          |           |



| No.                | Date | Phase  | G. | M.       | T.                      | No. | Date | Phase   | G. | M.       | T.         |
|--------------------|------|--|----|----------|-------------------------|-----|------|---|----|----------|------------|
| 34                 | 17   | iPKP<br>19.6S; 175.5W  | 19 | 23       | 25-5D<br>Tonga Is. reg. | 55  | 29   | e(P)<br>e(S)  | 01 | 50<br>51 | 0(4)<br>58 |
| 35                 | 18   | iP<br>45.4N; 25.6E   | 23 | 22       | 25 0<br>Romania         | 56  |      | e   | 09 | 35.5     |            |
| <u>December 61</u> |      |  |    |          |                         |     |      |   |    |          |            |
| 36                 |      | iPKP<br>27.5; 176.3W   | 11 | 36       | 49<br>Kermadec Is.      | 1   | 1    | i   | 07 | 46       | 30.5       |
| 37                 |      | i  | 22 | 21       | 32 C                    | 2   |      | iP<br>ipP   | 21 | 24<br>25 | 33 D<br>28 |
| 38                 |      | iP<br>ipP<br>0.8N; 124.3E. N. Celebes<br>h = 157 km                                | 23 | 34<br>35 | 35+sec.<br>19           | 3   | 2    | iP<br>30.5N; 8.6E. N. Tunisia   | 12 | 45       | 18.5 D     |
| 39                 |      | eP<br>50.9N; 92.5E. Outer Mongolia<br>Siberia border.                              | 24 | 12       | 16                      | 4   |      | eP<br>iS  | 20 | 07<br>08 | 43.5<br>19 |
| 40                 | 20   | ePKP<br>21.8S; 169.E. Loyakty Is.reg.  | 12 | 03       | 47                      | 5   | 3    | eiP<br>eiS  | 05 | 43<br>44 | 29<br>40   |
| 41                 |      | eP<br>ePP<br>31.3N; 40.5W. North Atlantic<br>Ocean                                 | 18 | 08<br>11 | 47<br>03                | 6   |      | iP<br>41.2N; 44E. Armenia-Turkey<br>border                                  | 18 | 34       | 45         |
| 42                 | 21   | ei(P)  | 01 | 48       | 52                      | 7   |      | iP<br>ePP<br>43.6N; 134.9E. Near Vladivostok<br>U.S.S.R. h = 420 km.        | 20 | 06<br>09 | 09-S<br>05 |
| 43                 |      | iP<br>iS   | 19 | 43<br>44 | 05<br>26                | 8   | 4    | iP<br>eS<br>33.2N; 95.3E. Tibet   | 12 | 47<br>54 | 07<br>15   |
| 44                 | 24   | ei(P)<br>ei(S)   | 21 | 46<br>47 | 40<br>31                | 9   | 5    | ePKP<br>eiPP<br>16S; 168.1E. New Hebrides Is.<br>h = 145 km.                | 13 | 21<br>24 | 45<br>46   |
| 45                 | 25   | i  | 16 | 07       | 30                      | 10  | 6    | iP<br>13.7N; 93.6E. Andaman Is.<br>M = 5 3/4 - 6                            | 05 | 58       | 17 0       |
| 46                 |      | iP<br>eiPP<br>36.1N; 141.4E. Near East<br>Coast of Honshu, Japan                   | 20 | 32<br>35 | 15 C<br>30              | 11  |      | iPKP<br>23.5S; 176W. Tonga Is. reg.<br>M = 6 1/4                            | 13 | 55       | 40 C       |
| 47                 |      | ei   | 23 | 14       | 43                      | 12  | 7    | iPKP<br>23.4S; 175.9W. Tonga Is. reg.                                       | 00 | 38       | 21 D       |
| 48                 | 26   | e  | 02 | 58       | 12                      | 13  | 8    | iP<br>30.5N; 86.7E. Tibet   | 10 | 28       | 02         |
| 49                 |      | eiP<br>Local   | 15 | 58       | 07                      | 14  |      | iP<br>11.4N; 49.7E. Gulf of Aden  | 10 | 45       | 46         |
| 50                 | 27   | eiP  | 00 | 33       | 21.5                    | 15  | 9    | ePKP<br>ePP<br>43.7S; 75.2W. Near coast of<br>S. Chile<br>M = 5 3/4 - 6 3/4 | 11 | 37<br>39 | 10<br>07   |
| 51                 |      | e(P)<br>e(S)   | 05 | 18<br>20 | 41<br>52                | 53  |      |   |    |          |            |
| 52                 |      | iP<br>ePP<br>31.6N; 131.1E. Near S. coast<br>of Kyushu, Japan<br>M = 6 1/4 - 6 1/2 | 06 | 09<br>12 | 12.5<br>14.5            | 54  | 28   | iP<br>iS<br>40.6N; 26.5E. Greece-Turkey<br>border h = 119 km                | 09 | 01<br>03 | 22<br>20   |
| 53                 |      | ei(P)<br>ei(PP)  | 17 | 23<br>27 | 49<br>3(3)              | 54  |      |   |    |          |            |







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| No. | Date | Phase   | G. | M.       | T.         | No. | Date | Phase  | G. | M.       | T.         |
|-----|------|---|----|----------|------------|-----|------|--|----|----------|------------|
| 16  | 9    | eiPKP<br>eipPKP<br>21.7S; 179.9E. Fiji Is.<br>h = 620 km          | 20 | 08<br>10 | 26<br>38   | 35  | 22   | iP<br>eiS  | 18 | 56       | 10<br>51   |
| 17  | 10   | iP<br>iS<br>38.8N; 25.7E. Aegean Sea                              | 08 | 41<br>42 | 05<br>35   | 36  |      | eP<br>eS   | 19 | 22<br>23 | 29<br>16   |
| 18  | 11   | iP<br>iS<br>36.5N; 23.5E. Near coast of<br>S. Greece              | 16 | 55<br>57 | 41 C<br>34 | 37  | 23   | e  | 03 | 37       | 48         |
| 19  | 12   | eiP<br>eiS  | 21 | 46<br>47 | 18<br>27   | 38  | 25   | iPKP<br>22.4S; 173.7W. Fonga Is.                 | 14 | 15       | 22         |
| 20  |      | iP<br>43.5N; 146.2E. Near E. coast<br>of Hokkaido, Japan.         | 23 | 18       | 38.5 C     | 39  | 26   | iP<br>Java Sea?                                  | 04 | 36       | 15 D       |
| 21  | 14   | iP<br>iS  | 03 | 02<br>03 | 55<br>37   | 40  |      | eP<br>Prince Edward Is?                          | 06 | 29       | 18         |
| 22  | 15   | eiP<br>eiS  | 22 | 05<br>06 | 18<br>55   | 41  | 27   | eP<br>Atlantic Ocean?                            | 16 | 56       | 15         |
| 23  | 16   | iPKP<br>28.5S; 179.4W. Kermadec Is.<br>h = 421 km.                | 20 | 54       | 43.5 D     | 42  |      | eiP<br>iS  | 20 | 52       | 16.5<br>45 |
| 24  | 17   | iP<br>eiS   | 09 | 54<br>55 | 53<br>34   | 43  | 28   | iPKP<br>North Is.?                               | 00 | 07       | 43 C       |
| 25  | 18   | eiP<br>iS   | 02 | 49<br>50 | 52<br>34.5 | 44  |      | iP<br>Local.                                     | 14 | 51       | 42.5 C     |
| 26  |      | eiP<br>iS   | 02 | 55<br>56 | 39.5<br>22 | 45  | 29   | iPKP<br>Santa Cruz Is?                           | 00 | 14       | 27.4       |
| 27  |      | iP<br>iS  | 18 | 44<br>45 | 19<br>00   | 46  |      | iP   | 05 | 05       | (01)       |
| 28  |      | eP  | 21 | 38       | 50         | 47  |      | eP   | 17 | 14       | 29         |
| 29  |      | e   | 22 | 44       | 45         | 48  | 30   | eiP<br>Rat Is.?                                  | 00 | 52       | 33         |
| 30  | 19   | iP<br>24.2N; 122.4E. Near East coast<br>of Formosa                | 17 | 41       | 53         | 49  |      | iPKP<br>22.9S; 175.2W. Tonga Is.                 | 09 | 19       | 39         |
| 31  | 20   | iP<br>3N; 118.4E. Near East coast<br>of Burma,                    | 01 | 56       | 47 D       | 50  |      | iP<br>35.7N; 77.7E. Sinkiang<br>Province, China. | 07 | 15       | 29         |
| 32  |      | eP  | 02 | 44       | 41         |     |      |  |    |          |            |
| 33  |      | e   | 06 | 35       | 27         |     |      |  |    |          |            |
| 34  |      | eP<br>ePP<br>4.6N; 75.6W. West Central<br>Columbia. M = 6 - 6 3/4 | 13 | 39<br>43 | 29<br>48   |     |      |  |    |          |            |