

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

31 JUL 1967

Bulletin of the seismological station

SCORESBYSUND

 $\varphi = 70^{\circ}29' \text{ N.}$ $\lambda = 21^{\circ}57' \text{ W.}$ $h = 69 \text{ m.}$

Lithologic foundation: gneiss

Instruments

Galitzin-Wilip. N and E. $T_p = T_g = 12 \text{ sec.}$ $\mu^2 = 0,$ $\frac{Ak}{\pi l} = 300$ or V_{\max} abt. 1000.Galitzin-Wilip. Z. $T_p = 9 \text{ sec.}$ $T_g = 10 \text{ sec.}$ $\mu^2 = 0,$ $\frac{Ak}{\pi l} = 200$ or V_{\max} abt. 600.Grenet Z'. $T_p = 1 \text{ sec.}$ $T_g = 1/4 \text{ sec.}$ V_{\max} abt. 30000.

Seismological Readings

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often those given by BCIS or USCGS. C means compression and D dilatation.

Scoresbysund 1962

January

- 1 *iP·Z'* 02^h50^m54^s C
 $\Delta = 57^\circ$, $h = 48$ km. Rat Islands, Aleutian Islands.
- 1 *eP·Z'* 10 26 57.0
 $\Delta = 57^\circ$, $h = 33$ km. Rat Islands, Aleutian Islands.
- 1 *eP·Z'Z* 23 50 10.0
iS·E 58 03
ePS·N 58 12
L·E 00 07
 $\Delta = 57^\circ$, $h = 33$ km. Rat Islands, Aleutian Islands.
- 2 *iP·Z'* 12 26 23.0 C
e·NE 29 26
L·NE 30
 $\Delta = 15^\circ$, $h = 33$ km. Svalbard region.
- 3 *iP·Z'* 18 02 49.0 C
 $\Delta = 57^\circ$, $h = 68$ km. Rat Islands, Aleutian Islands.
- 4 *eP·Z'* 04 27 22
 $\Delta = 73^\circ$, $h = 160$ km. Near south coast of Honshu, Japan.
- 4 *eP·Z'* 04 47 19
eS·E 56 59
 $\Delta = 74^\circ$, $h = 43$ km. Shikoku, Japan.
- 7 *eP·Z'* 01 23 11
 $\Delta = 50^\circ$, $h = 33$ km. South of Alaska.
- 7 *iP·Z'* 08 48 55.0 D
 $\Delta = 45^\circ$, $h = 33$ km. North Atlantic Ocean.
- 7 *eP·Z'* 10 09 52
 $\Delta = 33^\circ$, $h = 33$ km. Yugoslavia.
- 8 *eP·Z'* 01 10 25.0 D
e·Z' 11 23
 $\Delta = 59^\circ$, $h = 32$ km. Dominican Republic region.
- 8 *ePKP·Z'* 06 02 03
e·Z' 04 21
 $\Delta = 132^\circ$, $h = 133$ km. South of Fiji Islands.
- 9 *eP·Z'* 06 52 42
 $\Delta = 39^\circ$, $h = 33$ km. North Atlantic Ridge.
- 9 *iP·Z'* 12 51 35.0 C
iPcP·Z' 52 00
 $\Delta = 66^\circ$, $h = 53$ km. Hokkaido, Japan region.
- 11 *iP·Z'* 05 11 43.0
L·NE 23
 $\Delta = 34^\circ$, $h = 33$ km. Yugoslavia.

January

- 16 *ePKP·Z'* 11^h55^m10^s
 $\Delta = 138^\circ$, $h = 39$ km. Kermadec Islands.
- 18 *eP·Z'* 17 49 55
e·Z' 50 40
Near shock.
- 19 *eP·Z'* 06 11 03
 $\Delta = 58^\circ$, $h = 29$ km. Off east coast of Kamchatka.
- 19 *eP·Z'* 19 45 29
 $\Delta = 39^\circ$, $h = 38$ km. Southern Greece.
- 19 *eP·Z'* 22 25 53
 $\Delta = 39^\circ$, $h = 46$ km. Southern Greece.
- 23 *iP·Z'* 16 08 52.2 D
L·NE 32
 $\Delta = 54^\circ$, $h = 65$ km. Fox Islands, Aleutian Islands.
- 24 *ePKP·Z'* 05 05 13.1 D
 $\Delta = 125^\circ$, $h = 137$ km. New Hebrides Islands.
- 25 *eP·Z'* 00 34 53.0
i·Z' 35 59
 $\Delta = 5^\circ$. Iceland region.
- 25 *eP·Z'* 01 54 35
i·Z' 54 39
 $\Delta = 5^\circ$. Iceland region.
- 25 *eP·Z'* 05 14 12
 $\Delta = 5^\circ$. Iceland region.
- 26 *iP·Z'* 08 25 35.6 D
L·NE 42
 $\Delta = 43^\circ$, $h = 33$ km. Mediterranean Sea.
- 28 *iPKP·Z'* 05 59 04.8 D
 $\Delta = 123^\circ$, $h = 25$ km. Tonga Islands region.
- 30 *eP·Z'* 15 35 25.5
 $\Delta = 89^\circ$, $h = 187$ km. Mariana Islands region.
- 30 *eP·Z'* 17 21 34.5
 $\Delta = 30^\circ$, $h = 33$ km. East of Severnaya Zemlya.
- 31 *eP·Z'* 09 41 08
i·Z' 41 15
Near shock.
- 31 *iP·Z'* 22 31 34.2
Near shock.
- February
- 1 *ePKP·Z'* 00 59 18
 $\Delta = 139^\circ$, $h = 30$ km. Kermadec Islands region.

Scoresbysund 1962

February

- 2 *eP·Z'* 05^h52^m13^s
 $\Delta = 64^\circ$, $h = 37$ km. Kurile Islands.
- 2 *iP·Z'* 08 08 35 D
 $\Delta = 47^\circ$. Eastern Kazakh. S.S.R.
- 4 *eP·Z'* 21 40 55
 $\Delta = 71^\circ$, $h = 33$ km. Central Mid-Atlantic Ridge.
- 5 *iP·Z'Z* 23 07 10 C
epP·Z' 07 42
 $\Delta = 73^\circ$, $h = 136$ km. Honshu, Japan.
- 11 *eP·Z'* 02 53 59 D
ipP·Z' 55 36
isP·Z' 55 52
 $\Delta = 79^\circ$, $h = 400$ km. South of Honshu, Japan.
- 11 *eP·Z'* 10 10 56
 $\Delta = 55^\circ$. Fox Islands, Aleutian Islands.
- 12 *eP·Z'* 09 47 53
iS·Z' 48 33
L·Z' 49 06
 $\Delta = 3^\circ$. Near the station.
- 13 *eP·Z'* 00 50 26
 $\Delta = 18^\circ$, $h = 33$ km. North Atlantic Ocean.
- 13 *iP·Z'* 02 32 27
 $\Delta = 60^\circ$, $h = 46$ km. Kurile Islands.
- 13 *eP·Z'* 03 15 08
Local shock.
- 13 *iP·Z'* 20 44 24
 $\Delta = 66^\circ$, $h = 105$ km. Hokkaido, Japan region.
- 14 *ePKP·Z'* 06 54 42
iPP·Z'ZNE 55 36
iS·NE 07 03 16
iPS·ZNE 05 19
iPPS·NE 06 24
iSS·NE 11 30
L·NE 21
 $\Delta = 114^\circ$, $h = 45$ km. Central Chile.
- 14 *eP·Z'* 11 57 14
 $\Delta = 102^\circ$, $h = 150$ km. Mindanao, Philippine Islands.
- 16 *iP·Z'* 06 50 43 D
Local shock.
- 16 *eP·Z'* 16 03 28
- 18 *eP·Z'* 17 36 29
 $\Delta = 70^\circ$, $h = 50$ km. Northern Colombia.

February

- 20 *ePKP·Z'* 10^h25^m32^s
iSKP·Z' 28 02
 $\Delta = 133^\circ$, $h = 650$ km. South of Fiji Islands.
- 20 *iP·Z'* 16 16 29 C
isP·Z 16 56
eS·NE 25 15
e·E 25 37
 $\Delta = 66^\circ$, $h = 56$ km. Hokkaido, Japan region.
- 20 *eP·Z'* 22 14 22
L·NE 44
 $\Delta = 75^\circ$, $h = 33$ km. Burma.
- 27 *eP·Z'* 06 00 15
 $\Delta = 42^\circ$, $h = 100$ km. Central Alaska.
- 27 *eP·Z'* 06 46 32
 $\Delta = 75^\circ$, $h = 33$ km. Szechwan Province, China.
- 27 *ePS·NE* 13 10 10
eSS·NE 16 13
L·NE 36
 $\Delta = 114^\circ$, $h = 63$ km. Central Chile.
- 27 *eP·Z'* 21 40 43
 $\Delta = 35^\circ$, $h = 150$ km. Rumania.
- 28 *iP·Z'* 07 21 38 D
 $\Delta = 76^\circ$, $h = 60$ km. South of Honshu, Japan.
- March
- 1 *eP·Z'* 05 04 10 D
 $\Delta = 81^\circ$, $h = 33$ km. Southeastern Ryukyu Islands.
- 1 *iP·Z'* 18 46 03 D
 $\Delta = 67^\circ$, $h = 48$ km. Hokkaido, Japan region.
- 2 *L·NE* 00 42
- 2 *iP·Z'* 13 16 53
i·Z' 17 09
 $\Delta = 102^\circ$, $h = 96$ km. Mindanao, Philippine Islands.
- 2 *iP·Z'* 13 29 24 D
Local shock.
- 3 *eP·Z'* 00 03 48
Local shock.
- 3 *eP·Z'* 12 28 30 D
epP·Z' 28 53
L·NE 13 11
 $\Delta = 99^\circ$, $h = 87$ km. Mindanao, Philippine Islands.
- 5 *iP·Z'* 07 54 14
 $\Delta = 61^\circ$, $h = 33$ km. Off coast of California.

Scoresbysund 1962

March	
6	<i>eP·Z'</i> 06 ^h 08 ^m 23 ^s <i>L·NE</i> 44 $\Delta = 85^\circ$, $h = 33$ km. Andaman Islands region.
6	<i>eP·Z'</i> 20 29 35 $\Delta = 10^\circ$. Iceland region.
7	<i>eP·Z'</i> 01 45 05 <i>L·NE</i> 47 $\Delta = 10^\circ$, $h = 33$ km. Iceland region.
7	<i>eP·Z'</i> 02 09 29 $\Delta = 10^\circ$, $h = 35$ km. Iceland region.
7	<i>iP·Z'Z</i> 11 12 56 D <i>ipP·Z'</i> 15 18 <i>iSKS·N</i> 22 17 <i>iS·N</i> 22 50 <i>eSP·N</i> 24 08 <i>esS·NE</i> 27 12 <i>eSS·E</i> 29 11 <i>esSS·E</i> 32 49 $\Delta = 90^\circ$, $h = 685$ km. Mariana Islands.
7	<i>iP·Z'</i> 11 30 21
8	<i>eP·Z'</i> 10 57 36 D $\Delta = 64^\circ$, $h = 56$ km. Kurile Islands.
8	<i>eP·Z'</i> 21 50 56 $\Delta = 82^\circ$, $h = 35$ km. Lake Tanganyika region.
9	<i>iPKP·Z'</i> 07 15 22 C <i>epPKP·Z'</i> 17 21 $\Delta = 126^\circ$, $h = 443$ km. West of Tonga Islands.
10	<i>iP·Z'</i> 08 56 27 D $\Delta = 82^\circ$, $h = 31$ km. Taiwan.
11	<i>iP·Z'</i> 15 33 17 C <i>esP·Z'</i> 33 50 $\Delta = 56^\circ$, $h = 135$ km. Rat Islands, Aleutian Islands.
12	<i>eP·Z'</i> 09 53 00 <i>L·NE</i> 10 18 $\Delta = 73^\circ$, $h = 25$ km. Near south coast of Panama and Costa Rica.
12	<i>eP·Z'</i> 11 51 42 <i>i·Z'ZN</i> 51 48 <i>e·E</i> 53 34 <i>eS·NE</i> 12 01 16 <i>iSSS·E</i> 09 37 <i>L·ZNE</i> 13 $\Delta = 73^\circ$, $h = 30$ km. Panama - Costa Rica border region.
13	<i>eP·Z'</i> 08 49 44 Local shock.

March	
13	<i>eP·Z'</i> 23 ^h 51 ^m 39 ^s Local shock.
14	<i>iP·Z'</i> 00 44 23 $\Delta = 53^\circ$, $h = 15$ km. Off east coast of Kamchatka.
15	<i>iP·Z'</i> 02 01 52 D $\Delta = 63^\circ$, $h = 52$ km. Kurile Islands.
15	<i>eP·Z'</i> 04 46 01 $\Delta = 53^\circ$, $h = 33$ km. Unimak Island region.
15	<i>iPKP·Z'</i> 13 25 07 $\Delta = 134^\circ$, $h = 623$ km. South of Fiji Islands.
16	<i>iP·Z'</i> 09 54 24 $\Delta = 80^\circ$, $h = 177$ km. Ryukyu Islands.
16	<i>ePKP·Z'</i> 20 01 29 $\Delta = 120^\circ$, $h = 25$ km. Santa Cruz Islands.
17	<i>iP·Z'</i> 20 57 47 D <i>i·Z'ZN</i> 57 50 C <i>iPP·ZN</i> 21 00 13 <i>iS·NE</i> 06 11 <i>iPS·NE</i> 06 39 <i>iScS·NE</i> 07 47 <i>iSS·E</i> 10 04 <i>i·NE</i> 11 49 <i>i·E</i> 13 11 $\Delta = 61^\circ$, $h = 33$ km. North Atlantic Ridge.
17	<i>iP·Z'</i> 21 27 22
18	<i>eP·Z'</i> 05 39 26 C $\Delta = 68^\circ$, $h = 33$ km. Near east coast of Honshu, Japan.
18	<i>iP·Z'</i> 15 37 39 C <i>eS·NE</i> 43 20 <i>eSSS·N</i> 46 16 <i>L·ZNE</i> 50 $\Delta = 37^\circ$, $h = 33$ km. Albania.
18	<i>L·NE</i> 21 01
19	<i>iP·Z'</i> 06 08 32 C $\Delta = 106^\circ$, $h = 150$ km. Northern Celebes.
20	<i>eP·Z'</i> 19 05 32 D $\Delta = 86^\circ$, $h = 98$ km. Volcano Islands region.
21	<i>iPKP·Z'</i> 23 15 17 $\Delta = 109^\circ$, $h = 630$ km. Java.
22	<i>ePKP·Z'</i> 00 37 11 <i>epPP·ZE</i> 39 43 <i>eSKS·NE</i> 42 55 <i>e·NE</i> 43 52 <i>eSP·ZNE</i> 46 16 $\Delta = 109^\circ$, $h = 600$ km. Java.

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March	
22	<i>ePKP·Z'</i> 15 ^h 31 ^m 42 ^s <i>ePP·Z'ZNE</i> 32 25 <i>eS·E</i> 40 03 <i>ePS·NE</i> 41 58 <i>eSS·E</i> 47 58 <i>L·NE</i> 16 09 $\Delta = 112^\circ$, $h = 100$ km. Near north coast of New Guinea.
24	<i>eP·Z'</i> 00 01 56 Local shock.
24	<i>ePKP·Z'</i> 13 18 07 <i>iSKKS·N</i> 25 22 <i>eS·N</i> 26 51 <i>eSS·N</i> 35 15 <i>L·NE</i> 55 $\Delta = 115^\circ$, $h = 100$ km. New Guinea.
24	<i>eP·Z'</i> 13 28 42
24	<i>eP·Z'</i> 21 56 58 Local shock.
25	<i>eP·Z'</i> 08 22 19 $\Delta = 57^\circ$, $h = 45$ km. Fox Islands, Aleutian Islands.
25	<i>eP·Z'</i> 21 45 04 $\Delta = 37^\circ$, $h = 343$ km. Tyrrhenian Sea.
26	<i>iP·Z'</i> 09 29 33 C $\Delta = 39^\circ$, $h = 33$ km. Ionian Sea.
26	<i>eP·Z'</i> 12 16 10 $\Delta = 71^\circ$, $h = 33$ km. Central Mid-Atlantic Ridge.
28	<i>iP·Z'</i> 01 02 12 C $\Delta = 57^\circ$, $h = 108$ km. Afghanistan - USSR border region.
28	<i>ePP·Z'</i> 04 22 54 $\Delta = 98^\circ$, $h = 33$ km. Northern Sumatra.
28	<i>eP·Z'</i> 13 35 34 C $\Delta = 53^\circ$, $h = 33$ km. Kazakh-Sinkiang border region.
28	<i>eP·Z'</i> 15 22 29 Local shock.
29	<i>eP·Z'</i> 02 02 05 $\Delta = 58^\circ$, $h = 123$ km. Kamchatka.
29	<i>eP·Z'</i> 19 33 42 $\Delta = 11^\circ$, $h = 33$ km. Greenland Sea.
April	
1	<i>iP·Z'</i> 00 54 53 C $\Delta = 55^\circ$, $h = 33$ km. Iran.
1	<i>iP·Z'</i> 05 12 51 D $\Delta = 68^\circ$, $h = 55$ km. Hokkaido, Japan region.

April	
1	<i>eP·Z'</i> 09 ^h 32 ^m 21 ^s $\Delta = 28^\circ$, $h = 25$ km. East of Severnaya Zemlya.
1	<i>iP·Z'</i> 12 09 26 D $\Delta = 54^\circ$, $h = 36$ km. Fox Islands, Aleutian Islands.
1	<i>ePP·Z'</i> 12 30 16 $\Delta = 113^\circ$, $h = 80$ km. New Guinea.
2	<i>eP·Z'</i> 00 27 31 <i>ipP·Z'</i> 28 16 <i>iPP·Z'</i> 31 13 $\Delta = 91^\circ$, $h = 205$ km. Mariana Islands.
3	<i>ePKP·Z'</i> 16 44 06 $\Delta = 120^\circ$, $h = 36$ km. Santa Cruz Islands.
4	<i>eP·Z'</i> 02 26 11 <i>e·Z'</i> 28 05 Near shock.
4	<i>eP·Z'</i> 10 45 21 Local shock.
4	<i>eP·Z'</i> 14 14 02 <i>L·NE</i> 41 $\Delta = 72^\circ$, $h = 23$ km. Costa Rica.
4	<i>eP·Z'</i> 20 03 14 $\Delta = 44^\circ$, $h = 27$ km. Crete.
4	<i>iP·Z'</i> 20 59 14 C $\Delta = 44^\circ$, $h = 21$ km. Crete.
4	<i>iP·Z'</i> 21 07 44 $\Delta = 44^\circ$, $h = 25$ km. Crete.
5	<i>iP·Z'</i> 03 49 26 C $\Delta = 53^\circ$, $h = 65$ km. Unimak Island region.
6	<i>iP·Z'</i> 04 37 55 D Local shock.
7	<i>eP·Z'</i> 01 21 30 Local shock.
7	<i>ePS·NE</i> 06 48 20 $\Delta = 98^\circ$, $h = 50$ km. South of Mariana Islands.
7	<i>eP·Z'</i> 12 22 38 Local shock.
10	<i>iP·Z'</i> 21 44 42 C <i>iS·N</i> 50 50 <i>eSS·NE</i> 53 45 <i>L·NE</i> 58 $\Delta = 40^\circ$, $h = 35$ km. Ionian Sea.
10	<i>iP·Z'</i> 22 18 26 C $\Delta = 40^\circ$, $h = 25$ km. Ionian Sea.

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April		
11	<i>iP·Z'</i>	09 ^b 31 ^m 33 ^s C $\Delta = 80^\circ$, $h = 25$ km. Ryukyu Islands.
11	<i>iP·Z'</i>	10 55 01 <i>L·NE</i> 11 08 $\Delta = 40^\circ$, $h = 43$ km. Greece.
12	<i>iP·Z'ZN</i>	01 04 00 C <i>iPcP·Z</i> 04 25 $\Delta = 71^\circ$, $h = 48$ km. Near east coast of Honshu, Japan.
13	<i>iP·Z'</i>	18 43 30
15	<i>eP·Z'</i>	18 19 58 $\Delta = 73^\circ$, $h = 25$ km. North of Ascension Island.
15	<i>eP·Z'</i>	18 56 50 <i>L·NE</i> 19 24 $\Delta = 73^\circ$, $h = 25$ km. North of Ascension Island.
15	<i>iPKP·Z'</i>	22 50 02 C $\Delta = 125^\circ$, $h = 25$ km. South Sandwich Islands region.
16	<i>iP·Z'</i>	00 22 44 $\Delta = 39^\circ$, $h = 25$ km. Greece.
16	<i>iP·Z'</i>	13 32 03 D <i>ipP·Z'</i> 32 30 <i>iS·NE</i> 41 53 <i>isS·NE</i> 42 40 $\Delta = 78^\circ$, $h = 176$ km. South of Honshu, Japan.
17	<i>eP·Z'</i>	11 41 25 $\Delta = 40^\circ$, $h = 25$ km. Ionian Sea.
17	<i>ePKP·Z'</i>	18 02 55 $\Delta = 152^\circ$, $h = 25$ km. Off east coast of South Island, New Zealand.
17	<i>iP·Z'Z</i>	21 05 24 $\Delta = 71^\circ$, $h = 43$ km. Near east coast of Honshu, Japan.
17	<i>eP·Z'</i>	22 46 20 D <i>eS·NE</i> 55 49 <i>eScS·E</i> 56 43 <i>L·NE</i> 23 10 $\Delta = 72^\circ$, $h = 25$ km. North of Ascension Island.
18	<i>iP·Z'</i>	07 59 36 Near shock.
18	<i>iP·Z'</i>	19 27 28 C <i>i·Z'Z</i> 27 43 <i>eSKS·E</i> 37 55 <i>iS·E</i> 38 13 <i>i·N</i> 38 37 <i>iPS·N</i> 39 10 <i>eSS·NE</i> 44 15 <i>L·NE</i> 54 $\Delta = 89^\circ$, $h = 23$ km. Near coast of Peru.

April		
19	<i>eP·Z'</i>	02 ^b 13 ^m 26 ^s C $\Delta = 39^\circ$, $h = 25$ km. Greece.
19	<i>iP·Z'</i>	02 31 51 <i>i·Z'</i> 32 05 $\Delta = 89^\circ$, $h = 23$ km. Near coast of Peru.
19	<i>eP·Z'</i>	20 31 05 $\Delta = 88^\circ$, $h = 25$ km. Off coast of northern Peru.
19	<i>ePKP·Z'</i>	22 33 57 $\Delta = 125^\circ$, $h = 213$ km. New Hebrides Islands.
19	<i>iP·Z'</i>	23 23 39 C <i>i·Z'Z</i> 23 44 <i>ePP·N</i> 25 14 <i>L·ZNE</i> 36 $\Delta = 40^\circ$, $h = 17$ km. Eastern Siberia.
20	<i>iP·Z'ZNE</i>	05 57 48 C <i>iPP·Z</i> 59 58 <i>iS·NE</i> 06 05 48 <i>iScS·NE</i> 07 32 <i>L·ZNE</i> 16 $\Delta = 58^\circ$, $h = 25$ km. Haiti region.
22	<i>eP·Z'</i>	04 56 22 <i>eS·NE</i> 05 05 25 <i>L·NE</i> 20 $\Delta = 69^\circ$, $h = 69$ km. Near coast of Chiapas, Mexico.
22	<i>iP·Z'</i>	19 26 59 <i>epP·Z'</i> 27 42 $\Delta = 75^\circ$, $h = 181$ km. Kyushu, Japan.
23	<i>iP·Z'</i>	04 06 01 C $\Delta = 72^\circ$, $h = 80$ km. Honshu, Japan.
23	<i>iP·Z'</i>	06 08 57 C <i>iS·E</i> 17 49 <i>L·E</i> 31 <i>ePKPPKP·Z'</i> 37 27 $\Delta = 66^\circ$, $h = 25$ km. Hokkaido, Japan region.
24	<i>iP·Z'</i>	16 18 19 C $\Delta = 81^\circ$, $h = 175$ km. Peru - Ecuador border region.
25	<i>eP·Z'</i>	06 29 58 $\Delta = 39^\circ$, $h = 25$ km. Greece.
25	<i>iP·Z'</i>	15 58 41 C <i>eS·E</i> 16 07 58 <i>L·E</i> 22 $\Delta = 70^\circ$, $h = 56$ km. Near east coast of Honshu, Japan.
26	<i>iPKP·Z'</i>	07 44 24 C <i>ipPKP·Z'</i> 46 20 <i>isPKP·Z'</i> 47 10 $\Delta = 124^\circ$, $h = 657$ km. West of Tonga Islands.

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April		
27	<i>iP·Z'</i>	06 ^b 36 ^m 48 ^s Local shock.
27	<i>eSKP·Z'</i>	06 51 10 C $\Delta = 132^\circ$, $h = 576$ km. South of Fiji Islands.
27	<i>L·ZN</i>	07 50
28	<i>iP·Z'Z</i>	11 26 55 C <i>ePP·Z</i> 28 36 <i>eSS·N</i> 36 37 <i>L·N</i> 41 $\Delta = 43^\circ$, $h = 40$ km. Dodecanese Islands.
28	<i>eP·Z'</i>	11 51 45 C $\Delta = 43^\circ$, $h = 48$ km. Dodecanese Islands.
30	<i>iP·Z'ZN</i>	02 37 37 C <i>ePP·E</i> 40 20 <i>ePS·E</i> 47 22 <i>L·NE</i> 03 01 $\Delta = 70^\circ$, $h = 104$ km. Honshu, Japan.
30	<i>eP·Z'</i>	04 59 49 <i>eS·Z'</i> 05 01 23 <i>L·E</i> 01 56 $\Delta = 9^\circ$. Eastern Greenland.
30	<i>ePKP·Z'</i>	16 35 51 <i>ePP·ZN</i> 37 39 <i>e·N</i> 39 20 <i>eSKKS·N</i> 44 48 <i>L·ZNE</i> 17 20 $\Delta = 125^\circ$, $h = 33$ km. West of Tonga Islands.
30	<i>iPKP·Z'</i>	18 49 59 D <i>L·ZNE</i> 19 34 $\Delta = 125^\circ$, $h = 92$ km. West of Tonga Islands.
30	<i>iP·Z'</i>	23 52 24 <i>eS·NE</i> 54 02 <i>L·NE</i> 54 $\Delta = 10^\circ$, $h = 25$ km. Norwegian Sea.
May		
1	<i>eP·Z'</i>	00 02 24 $\Delta = 9^\circ$, $h = 64$ km. Greenland Sea.
1	<i>eP·Z'</i>	10 08 50 D $\Delta = 50^\circ$. Normal depth. Southern Algeria.
2	<i>eP·Z'</i>	02 52 20 $\Delta = 50^\circ$, $h = 25$ km. Kodiak Island region.
2	<i>iP·Z'</i>	09 09 53 D $\Delta = 100^\circ$, $h = 177$ km. Jujuy Province, Argentina.
3	<i>iP·Z'</i>	02 48 48 D $\Delta = 66^\circ$, $h = 49$ km. Hokkaido, Japan region.

May		
3	<i>iPKP·Z'</i>	03 ^b 54 ^m 04 ^s $\Delta = 130^\circ$, $h = 20$ km. Scotia Sea.
5	<i>iP·Z'</i>	11 23 26 C <i>eS·E</i> 33 04 <i>L·NE</i> 52 $\Delta = 75^\circ$, $h = 57$ km. Near south coast of Honshu, Japan.
6	<i>ePKP·Z'</i>	03 53 33 $\Delta = 147^\circ$, $h = 25$ km. South Pacific Cordillera.
6	<i>iPKP·Z'Z</i>	19 19 22 D <i>ePP·Z</i> 21 35 <i>iPKS·ZN</i> 22 47 <i>i·NE</i> 22 58 <i>eSS·NE</i> 39 35 <i>eSSS·E</i> 44 05 <i>L·ZNE</i> 20 00 $\Delta = 130^\circ$, $h = 33$ km. South Sandwich Islands region.
6	<i>iPKP·Z'</i>	22 13 00 C $\Delta = 130^\circ$, $h = 33$ km. Scotia Sea.
7	<i>iP·Z'</i>	17 50 25 C <i>iPPP·N</i> 54 29 <i>iS·NE</i> 59 05 <i>iPS·N</i> 59 25 <i>i·E</i> 18 06 43 <i>L·E</i> 08 <i>ePKPPKP·Z'</i> 19 12 $\Delta = 64^\circ$, $h = 20$ km. Kurile Islands.
7	<i>ePKP·Z'</i>	19 22 41 D <i>ePKS·Z'</i> 25 59 $\Delta = 130^\circ$, $h = 25$ km. South Sandwich Islands region.
9	<i>iP·Z'</i>	00 01 51 C <i>ipP·Z'</i> 02 06 $\Delta = 43^\circ$, $h = 86$ km. Crete.
9	<i>iP·Z'</i>	11 29 31 D $\Delta = 63^\circ$, $h = 40$ km. Kurile Islands.
9	<i>eP·Z'</i>	12 27 27 Near shock.
9	<i>eP·Z'</i>	18 32 06 $\Delta = 78^\circ$. Ryukyu Islands.
10	<i>iP·Z'</i>	00 11 35 <i>iPPP·ZN</i> 13 37 <i>eS·N</i> 17 58 <i>eSS·NE</i> 21 22 <i>L·NE</i> 24 $\Delta = 43^\circ$, $h = 72$ km. Central Alaska.
10	<i>ePKP·Z'Z</i>	00 46 57 C <i>L·NE</i> 01 46 $\Delta = 150^\circ$, $h = 54$ km. South Island, New Zealand.

Scoresbysund 1962

May	
10	<i>ePKP·Z'</i> 04 ^h 50 ^m 46 ^s $\Delta = 149^\circ$. South Island, New Zealand.
10	<i>iP·Z'ZN</i> 05 21 50 C <i>iScS·NE</i> 31 40 <i>L·NE</i> 39 $\Delta = 55^\circ$. $h = 43$ km. Fox Islands, Aleutian Islands.
10	<i>eP·Z'</i> 09 25 18 Near shock.
10	<i>iP·Z'</i> 10 44 05 Near shock.
10	<i>iP·Z'</i> 11 19 16 C $\Delta = 22^\circ$. $h = 25$ km. North Atlantic Ridge.
10	<i>eP·Z'</i> 14 22 20 C $\Delta = 22^\circ$. $h = 25$ km. North Atlantic Ridge.
11	<i>iP·Z'ZNE</i> 14 23 03 C <i>ePP·N</i> 25 54 <i>iS·NE</i> 32 19 <i>iScS·N</i> 33 06 <i>L·NE</i> 44 $\Delta = 70^\circ$. $h = 40$ km. Guerrero, Mexico.
12	<i>eP·Z'</i> 05 36 39 Near shock.
12	<i>iP·Z'</i> 19 09 46 D $\Delta = 57^\circ$. Southern Nevada.
14	<i>eP·Z'</i> 16 58 00 $\Delta = 22^\circ$. $h = 25$ km. North Atlantic Ridge.
15	<i>eP·ZN</i> 05 38 39 <i>ePP·Z'N</i> 43 16 <i>i·Z'ZNE</i> 43 30 <i>iPS·NE</i> 53 01 <i>iPPS·E</i> 54 23 <i>i·NE</i> 59 27 <i>iSSS·N</i> 06 02 58 <i>L·NE</i> 06 14 $\Delta = 114^\circ$. $h = 34$ km. Banda Sea.
15	<i>iP·Z'</i> 19 42 04 $\Delta = 56^\circ$. $h = 30$ km. Near east coast of Kamchatka.
17	<i>ePKP·Z'</i> 02 39 44 D $\Delta = 151^\circ$. $h = 41$ km. South Island, New Zealand.
19	<i>eP·Z'</i> 12 33 38 Near shock.
19	<i>iP·Z'ZE</i> 15 09 23 C <i>eS·N</i> 18 30 <i>iPS·NE</i> 18 50 <i>iSS·E</i> 22 59 <i>L·NE</i> 33 $\Delta = 70^\circ$. $h = 33$ km. Guerrero, Mexico.

May	
19	<i>eP·Z'</i> 17 ^h 21 ^m 43 ^s <i>i·Z'</i> 22 10 Near shock.
20	<i>iP·Z'</i> 00 09 33 D $\Delta = 91^\circ$. $h = 70$ km. Near coast of Peru.
21	<i>iP·Z'ZNE</i> 12 13 24 C <i>iPP·E</i> 15 47 <i>eS·NE</i> 22 08 <i>iSS·N</i> 26 16 <i>i·E</i> 27 18 <i>ePKPPK·Z'</i> 32 03 <i>L·NE</i> 34 $\Delta = 64^\circ$. $h = 25$ km. Tsinghai Province, China.
21	<i>eP·Z'</i> 12 42 23 Near shock.
21	<i>iP·Z'</i> 12 46 52 C $\Delta = 64^\circ$. $h = 25$ km. Tsinghai Province, China.
May	
21	<i>eP·Z'</i> 13 26 15 $\Delta = 64^\circ$. $h = 25$ km. Tsinghai Province, China.
21	<i>eP·Z'</i> 15 52 19 $\Delta = 64^\circ$. $h = 36$ km. Tsinghai Province, China.
21	<i>ePKP·Z'</i> 21 33 53 C <i>ipPKP·Z'Z</i> 35 44 <i>i·Z</i> 37 44 $\Delta = 127^\circ$. $h = 342$ km. West of Tonga Islands.
22	<i>eP·Z'</i> 00 07 38 <i>e·Z'</i> 08 14 Near shock.
22	<i>ePKP·Z'</i> 05 00 20 $\Delta = 150^\circ$. $h = 42$ km. South Pacific Cordillera.
22	<i>iPKP·Z'</i> 08 25 17 C <i>ipPKP·Z'</i> 25 49 <i>ePP·N</i> 26 47 <i>eSKS·N</i> 32 06 <i>ePKK·Z'</i> 35 19 <i>ePS·N</i> 36 47 <i>L·NE</i> 09 08 $\Delta = 122^\circ$. $h = 135$ km. Santa Cruz Islands.
22	<i>eP·Z'</i> 23 39 49 $\Delta = 64^\circ$. $h = 25$ km. Tsinghai Province, China.
23	<i>eP·Z'</i> 01 52 44 $\Delta = 64^\circ$. $h = 50$ km. Tsinghai Province, China.
25	<i>eP·Z'</i> 00 52 07 <i>L·NE</i> 55 $\Delta = 14^\circ$. $h = 33$ km. North Atlantic Ocean.

Scoresbysund 1962

May	
25	<i>eP·Z'</i> 17 ^h 18 ^m 20 ^s <i>eS·N</i> 18 57 <i>L·N</i> 19 09 $\Delta = 3^\circ$. Near shock.
26	<i>eP·Z'</i> 19 57 25 $\Delta = 93^\circ$. $h = 30$ km. Nicobar Islands region.
30	<i>eP·Z'</i> 07 09 39 <i>L·NE</i> 11 31 $\Delta = 7^\circ$. Iceland.
30	<i>eP·Z'</i> 10 10 44 <i>eS·NE</i> 17 08 <i>eSS·E</i> 20 16 <i>L·NE</i> 23 $\Delta = 42^\circ$. $h = 33$ km. North Atlantic Ridge.
31	<i>eP·Z'</i> 02 08 01 $\Delta = 67^\circ$. $h = 33$ km. West Pakistan.
31	<i>iP·Z'N</i> 06 40 43 C <i>iSKS·NE</i> 50 47 <i>ePS·N</i> 52 09 <i>esPS·N</i> 52 48 <i>eSS·E</i> 56 49 $\Delta = 87^\circ$. $h = 258$ km. Volcano Islands region.
June	
No short-period records from May 31 ^d 21 ^h –June 1 ^d 21 ^h .	
2	<i>eS·E</i> 12 42 17 <i>L·NE</i> 50 $\Delta = 50^\circ$. $h = 33$ km. Vancouver Island region.
2	<i>eP·Z'</i> 17 27 08 <i>ePS·E</i> 37 23 <i>L·E</i> 55 $\Delta = 77^\circ$. $h = 54$ km. Ryukyu Islands region.
No short period records from June 2 ^d 21 ^h –June 3 ^d 21 ^h .	
3	<i>eS·E</i> 15 18 33 <i>L·NE</i> 26 $\Delta = 50^\circ$. $h = 33$ km. North Atlantic Ridge.
3	<i>iP·Z'</i> 23 48 33 C $\Delta = 22^\circ$. $h = 33$ km. North Atlantic Ridge.
No short period records from June 3 ^d 8 ^h –June 6 ^d 22 ^h .	
6	<i>L·NE</i> 18 20
8	<i>eP·Z'</i> 09 23 18 C $\Delta = 79^\circ$. $h = 19$ km. Ryukyu Islands.
8	<i>eP·Z'</i> 15 20 39 <i>e(L)·Z'</i> 22 18 Near shock.
June	
9	<i>eP·Z'</i> 09 ^h 08 ^m 17 ^s Near shock.
11	<i>iPKP·Z'</i> 04 53 21 C $\Delta = 127^\circ$. $h = 370$ km. West of Tonga Islands.
11	<i>iP·Z'</i> 07 22 20 C <i>eS·NE</i> 27 40 $\Delta = 33^\circ$. $h = 33$ km. Yugoslavia.
12	<i>eP·Z'</i> 01 28 08 <i>L·NE</i> 30 $\Delta = 6^\circ$. $h = 33$ km. Iceland region.
12	<i>eP·Z'</i> 09 47 54 <i>es·E</i> 49 02 <i>L·NE</i> 49.5 $\Delta = 6^\circ$. $h = 33$ km. Iceland.
14	<i>iP·Z'Z</i> 08 01 25 D <i>eS·N</i> 08 58 <i>ePS·E</i> 09 11 <i>iSS·N</i> 13 05 <i>L·NE</i> 18 $\Delta = 55^\circ$. $h = 30$ km. Komandorsky Islands region.
14	<i>eP·Z'</i> 08 05 24 D $\Delta = 55^\circ$. $h = 60$ km. Komandorsky Islands region.
14	<i>iP·Z'</i> 20 30 02 D $\Delta = 81^\circ$. $h = 160$ km. Peru – Ecuador border region.
17	<i>eP·Z'</i> 04 49 47 $\Delta = 62^\circ$. $h = 34$ km. Eastern Kashmir.
17	<i>iP·Z'</i> 22 37 54 C $\Delta = 57^\circ$. $h = 33$ km. Rat Islands, Aleutian Islands.
18	<i>iP·Z'</i> 06 29 06 C $\Delta = 45^\circ$. $h = 174$ km. Southern Alaska.
19	<i>iPKP·Z'</i> 00 01 06 C <i>ePS·NE</i> 11 40 $\Delta = 114^\circ$. $h = 100$ km. New Britain region.
19	<i>eP·Z'</i> 19 24 39 Local shock.
19	<i>iP·Z'</i> 20 26 09 C <i>iS·Z'</i> 26 46 $\Delta = 3^\circ$. Near shock.
21	<i>eP·Z'Z</i> 04 55 27 C <i>eS·N</i> 05 05 07 <i>L·NE</i> 17 $\Delta = 75^\circ$. $h = 23$ km. South of Panama.

Scoresbysund 1962

June	
22	<i>iP·Z'Z</i> 12 ^h 00 ^m 50 ^s D <i>eS·NE</i> 10 41 $\Delta = 77^\circ$. $h = 33$ km. South of Honshu, Japan.
23	<i>iP·Z'</i> 09 56 56 D <i>ePP·Z'ZN</i> 10 00 04 <i>iS·NE</i> 07 10 <i>iSKS·N</i> 07 15 <i>iPS·ZN</i> 08 03 <i>eSS·N</i> 12 35 <i>L·NE</i> 23 $\Delta = 82^\circ$. $h = 33$ km. Ryukyu Islands.
23	<i>eP·Z'</i> 10 11 08 $\Delta = 87^\circ$. $h = 45$ km. Philippine Islands region.
24	<i>eP·Z'Z</i> 01 33 05 D <i>eS·E</i> 42 52 <i>L·NE</i> 55 $\Delta = 76^\circ$. $h = 33$ km. Yunan Province, China.
25	<i>iPKP·Z'</i> 01 49 39 $\Delta = 128^\circ$. $h = 645$ km. West of Tonga Islands.
25	<i>iP·Z'ZNE</i> 11 22 45 C <i>ePP·N</i> 26 12 <i>eS·NE</i> 33 01 <i>eSS·E</i> 38 12 <i>L·NE</i> 50 $\Delta = 82^\circ$. $h = 33$ km. Taiwan region.
25	<i>L·NE</i> 23 02
27	<i>iP·Z'</i> 18 09 47 C $\Delta = 57^\circ$. Southern Nevada.
28	<i>iP·Z'Z</i> 04 39 48 C <i>eS·NE</i> 50 18 <i>L·NE</i> 05 07 $\Delta = 84^\circ$. $h = 15$ km. Hawaiian Islands.
28	<i>eP·Z'</i> 06 58 12 $\Delta = 37^\circ$. $h = 40$ km. Southern Albania.
28	<i>eSKS·NE</i> 19 15 16 <i>ePS·E</i> 18 23 $\Delta = 106^\circ$. $h = 58$ km. Molucca Sea.
29	<i>L·NE</i> 03 05
29	<i>eP·Z'</i> 16 36 03 <i>eS·NE</i> 42 27 <i>L·NE</i> 48 $\Delta = 43^\circ$. $h = 50$ km. Central Alaska.
29	<i>eP·Z'</i> 22 45 03 <i>eS·NE</i> 52 38 <i>L·N</i> 23 00 $\Delta = 54^\circ$. $h = 52$ km. Western Iran.

June	
30	<i>eP·Z'</i> 05 ^h 56 ^m 47 ^s <i>L·NE</i> 57 Local shock.
July	
2	<i>ePKP·Z'</i> 08 51 21 <i>eSKS·NE</i> 58 18 <i>ePS·N</i> 09 02 43 $\Delta = 120^\circ$. $h = 50$ km. Santa Cruz Islands.
3	<i>ePKP·Z'</i> 18 33 21 $\Delta = 150^\circ$. $h = 25$ km. South Pacific Cordillera.
3	<i>iPKP·Z'</i> 18 41 53 $\Delta = 146^\circ$. $h = 25$ km. South Pacific Cordillera.
4	<i>eP·Z'</i> 08 01 47 $\Delta = 17^\circ$. $h = 25$ km. North Atlantic Ocean.
5	<i>iP·Z'</i> 17 52 56 <i>eS·NE</i> 18 02 52 $\Delta = 78^\circ$. $h = 23$ km. South of Honshu, Japan.
6	<i>iP·Z'</i> 02 23 57 D <i>ePS·NE</i> 33 47 <i>L·N</i> 48 $\Delta = 74^\circ$. $h = 33$ km. Arabian Sea.
6	<i>iP·Z'</i> 09 23 45 C <i>eS·NE</i> 29 49 <i>L·NE</i> 37 $\Delta = 40^\circ$. $h = 30$ km. Greece.
6	<i>eP·Z'</i> 16 01 58 $\Delta = 40^\circ$. $h = 129$ km. Greece.
6	<i>iP·Z'ZNE</i> 23 14 57 C <i>i·Z'Z</i> 15 17 <i>ipP·NE</i> 15 46 <i>isP·Z'ZE</i> 16 03 <i>iPP·ZE</i> 17 03 <i>iS·NE</i> 22 37 <i>isS·N</i> 23 58 <i>iSS·N</i> 26 01 <i>i·N</i> 28 07 <i>L·NE</i> 34 $\Delta = 56^\circ$. $h = 203$ km. Hindu Kush region.
7	<i>iP·Z'Z</i> 06 22 33 C <i>eS·NE</i> 30 32 <i>L·NE</i> 42 $\Delta = 57^\circ$. $h = 60$ km. Rat Islands, Aleutian Islands.
7	<i>eP·Z'</i> 12 54 42 $\Delta = 40^\circ$. $h = 33$ km. Ionian Sea.
9	<i>eP·Z'</i> 01 53 21 Local shock.

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July	
10	<i>eP·Z'</i> 10 ^h 13 ^m 40 ^s $\Delta = 41^\circ$. $h = 33$ km. Aegean Sea.
11	<i>L·NE</i> 01 32
11	<i>eP·Z'</i> 12 53 51 D <i>iPP·Z'N</i> 57 43 <i>eSKS·NE</i> 13 04 28 <i>ePS·N</i> 06 17 <i>L·NE</i> 27 $\Delta = 94^\circ$. $h = 25$ km. Panay, Philippine Islands.
13	<i>iP·Z'</i> 03 45 23 D <i>i·Z</i> 45 34 <i>eSKS·NE</i> 55 55 <i>eS·N</i> 56 38 <i>L·NE</i> 04 22 $\Delta = 96^\circ$. $h = 52$ km. Panay, Philippine Islands.
13	<i>iP·Z'</i> 22 28 40 $\Delta = 53^\circ$. $h = 59$ km. Komandorsky Islands region.
14	<i>eP·Z'</i> 01 12 41 $\Delta = 57^\circ$. $h = 72$ km. Rat Islands, Aleutian Islands.
14	<i>eP·Z'</i> 16 09 36 $\Delta = 66^\circ$. $h = 40$ km. Tibet-India border region.
14	<i>eP·Z'</i> 20 48 03 D $\Delta = 60^\circ$. $h = 60$ km. Kurile Islands.
15	<i>iP·Z'ZN</i> 06 58 21 D <i>epP·Z'</i> 58 47 <i>isP·Z'</i> 59 05 <i>eS·NE</i> 07 07 23 <i>eScS·E</i> 08 05 $\Delta = 68^\circ$. $h = 103$ km. Honshu, Japan.
15	<i>eP·Z'</i> 15 23 47 $\Delta = 69^\circ$. $h = 55$ km. Near east coast of Honshu, Japan.
15	<i>eP·Z'</i> 22 03 49 $\Delta = 72^\circ$. $h = 33$ km. Arabian Sea.
16	<i>ePKP²·Z'</i> 02 25 39 $\Delta = 159^\circ$. $h = 14$ km. West of Marquarie Island.
16	<i>eP·Z'</i> 07 11 14 $\Delta = 39^\circ$. $h = 99$ km. Greece.
16	<i>iPKP·Z'</i> 09 44 30 D $\Delta = 122^\circ$. $h = 208$ km. New Hebrides Islands.
16	<i>iP·Z'ZNE</i> 13 02 39 C <i>ePP·NE</i> 04 27 <i>L·NE</i> 16 $\Delta = 43^\circ$. $h = 39$ km. Central Alaska.

July	
17	<i>ePKP·Z'</i> 05 ^h 50 ^m 58 ^s <i>ePS·N</i> 06 02 20 <i>L·NE</i> 31 $\Delta = 120^\circ$. $h = 26$ km. Off coast of southern Chile.
17	<i>eP·Z'</i> 10 29 41 Local shock.
17	<i>eP·Z'</i> 10 56 23 Local shock.
17	<i>iP·Z'ZNE</i> 17 31 11 C <i>eS·NE</i> 39 59 <i>L·NE</i> 52 $\Delta = 66^\circ$. $h = 30$ km. Hokkaido, Japan region.
19	<i>iP·Z'</i> 22 16 45 $\Delta = 69^\circ$. $h = 93$ km. Honshu, Japan.
22	<i>eP·Z'</i> 00 25 25 $\Delta = 20^\circ$. $h = 33$ km. North of Franz Josef Land.
24	<i>iP·Z'</i> 16 36 38 C $\Delta = 96^\circ$. $h = 21$ km. Panay, Philippine Islands.
24	<i>eP·Z'</i> 21 19 15 <i>ipP·Z'</i> 19 41 <i>eScS·NE</i> 29 03 <i>L·NE</i> 38 $\Delta = 69^\circ$. $h = 131$ km. Mexico-Guatemala border region.
25	<i>iP·Z'E</i> 04 48 08 <i>ePPP·E</i> 52 08 <i>eS·N</i> 56 33 <i>ePS·E</i> 56 43 <i>eSS·E</i> 05 00 45 <i>L·NE</i> 08 $\Delta = 62^\circ$. $h = 33$ km. Caribbean Sea.
26	<i>iP·Z'</i> 04 33 36 C $\Delta = 63^\circ$. $h = 35$ km. Kurile Islands.
26	<i>iP·Z'ZE</i> 08 26 16 D <i>iPP·ZE</i> 29 06 <i>iPPP·ZE</i> 30 54 <i>iS·E</i> 35 44 <i>L·E</i> 47 $\Delta = 73^\circ$. $h = 33$ km. South of Panama.
28	<i>ePS·N</i> 00 35 56 <i>L·NE</i> 01 07 $\Delta = 122^\circ$. $h = 40$ km. Tonga Islands.
28	<i>L·NE</i> 14 38
29	<i>iP·Z'</i> 03 49 27 C $\Delta = 82^\circ$. $h = 184$ km. Ryukyu Islands.

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July

30 *eP·Z'Z* 17^h31^m24^s
iPP·Z'ZN 36 06
eSKKS·NE 43 07
ePS·NE 45 37
eSS·NE 51 53
L·NE 18 12
 $\Delta = 112^\circ$. $h = 33$ km. Near north coast of New Guinea.

30 *iP·Z'ZNE* 20 30 20 C
i·E 31 03
iS·NE 39 45
iPS·N 40 03
iSKS·N 40 23
L·NE 54
 $\Delta = 73^\circ$. $h = 69$ km. Colombia.

31 *iP·Z'* 05 21 01 C
eS·E 30 45
 $\Delta = 75^\circ$. $h = 33$ km. Shikoku, Japan.

31 *eP·Z'* 05 25 50 C
iSKS·NE 36 16
L·NE 57
 $\Delta = 87^\circ$. $h = 39$ km. Luzon, Philippine Islands.

31 *iP·Z'* 18 21 18 C
 Local shock.

August

1 *ePKP·Z'* 04 55 26
ePP·ZNE 56 25
ePS·N 05 05 45
e·NE 11 54
L·NE 31
 $\Delta = 112^\circ$. $h = 33$ km. Near south coast of New Guinea.

1 *eP·Z* 05 14 15
 1 *eP·Z'* 15 58 10
 $\Delta = 63^\circ$. $h = 25$ km. Kansu Province, China.

3 *iP·Z'ZN* 09 09 47 D
iPP·Z'Z 13 40
ipPP·ZN 14 20
i·N 20 13
iS·N 21 05
i·Z'Z 22 32
i·N 26 53
e·PKPPKP·Z' 34 27
L·NE 44
 $\Delta = 99^\circ$. $h = 107$ km. Northern Chile.

3 *iP·Z'* 09 26 13

3 *iP·Z'* 09 26 39

3 *eP·Z'* 09 30 28

August

3 *iPKS·Z'* 10^h39^m03^s
 $\Delta = 132^\circ$. $h = 33$ km. Loyalty Islands region.

3 *eP·Z'* 11 13 25
 $\Delta = 54^\circ$. $h = 25$ km. Kirgiz, S.S.R.

4 *eP·Z'* 03 01 03
eScS·N 11 10
L·NE 26
 $\Delta = 71^\circ$. $h = 30$ km. Near coast of Chiapas, Mexico.

4 *eP·Z'* 13 41 41
L·NE 42
 Local shock.

5 *iP·Z'ZNE* 09 13 43
L·NE 19
 $\Delta = 22^\circ$. $h = 0$. Novaya Zemlya.

6 *ePKP·Z'* 21 11 09
ePKS·NE 14 37
eSKKS·N 20 34
 $\Delta = 134^\circ$. $h = 50$ km. Kermadec Islands region.

8 *eP·Z'* 07 48 30
 Local shock.

8 *eP·Z'* 11 04 28
 $\Delta = 55^\circ$. $h = 40$ km. Fox Islands, Aleutian Islands.

9 *iP·Z'* 04 32 57 D
 $\Delta = 72^\circ$. $h = 180$ km. Northern Colombia.

9 *iP·Z'* 10 55 37
 $\Delta = 77^\circ$. $h = 198$ km. Kyushu, Japan.

10 *eP·Z'* 20 43 19
eS·Z' 43 47
 $\Delta = 2^\circ$. Local shock.

10 *iP·Z'N* 21 08 47 C
eS·NE 12 51
i·E 13 04
L·NE 14
 $\Delta = 22^\circ$. $h = 33$ km. North Atlantic Ridge.

11 *iP·Z'NE* 08 27 47 D
ipP·Z' 28 22
eS·NE 37 47
iSKS·E 38 04
iPS·NE 38 49
L·NE 56
 $\Delta = 81^\circ$. $h = 140$ km. Northeast of Taiwan.

11 *eP·Z'* 18 26 01
 Local shock.

12 *eP·Z'* 04 57 27
 $\Delta = 43^\circ$. $h = 33$ km. Turkey.

Scoresbysund 1962

August

13 *eP·Z'* 06^h47^m57^s
eS·N 57 58
 $\Delta = 78^\circ$. $h = 33$ km. Off coast of Central America.

13 *eP·Z'* 16 04 33
 $\Delta = 44^\circ$. Crete.

14 *eP·Z'* 15 05 22
 Local shock.

15 *iP·Z'* 02 57 15 C
 $\Delta = 77^\circ$. $h = 155$ km. South of Honshu, Japan.

15 *eP·Z'* 08 29 07 C
 $\Delta = 55^\circ$. $h = 52$ km. Near east coast of Kamchatka.

15 *eP·Z'* 10 17 20
 $\Delta = 63^\circ$. $h = 37$ km. E. Russia - NE. China border region.

15 *eP·Z'* 11 32 28
 Local shock.

17 *iP·Z'Z* 05 17 56 D
ePP·Z' 21 48
eSKKS·N 29 00
eS·N 29 22
L·NE 50
 $\Delta = 96^\circ$. $h = 33$ km. Panay, Philippine Islands.

17 *eP·Z'* 07 38 55
epP·Z' 39 22
 $\Delta = 84^\circ$. $h = 96$ km. Peru - Ecuador border region.

18 *iP·Z'Z* 16 51 52 D
eS·NE 58 16
eSS·N 17 01 56
L·NE 05
 $\Delta = 43^\circ$. $h = 32$ km. Central Alaska.

18 *iP·Z'Z* 17 54 13 C
eS·NE 18 00 38
L·NE 07
 $\Delta = 43^\circ$. $h = 32$. Central Alaska.

19 *eP·Z'Z* 18 35 53
ePcP·Z'ZNE 36 04
iPPP·N 38 50
eS·NE 43 23
L·NE 53
 $\Delta = 53^\circ$. $h = 33$ km. Northern Sinkiang Province, China.

20 *eP·Z'* 00 56 06
 Local shock.

20 *L·E* 09 13

20 *L·NE* 11 15

August

21 *iP·Z'* 18^h15^m57^s C
L·NE 27
 $\Delta = 35^\circ$. $h = 36$ km. Southern Italy.

21 *eP·Z'* 18 26 23
eS·NE 31 48
L·NE 36
 $\Delta = 35^\circ$. $h = 34$ km. Southern Italy.

21 *ePP·Z'* 21 29 47
L·NE 22 05
 $\Delta = 117^\circ$. $h = 33$ km. Easter Island region.

23 *eP·Z'* 19 38 46 D
eS·NE 46 30
L·NE 56
 $\Delta = 56^\circ$. $h = 33$ km. Near coast of northern California.

25 *iPKP·Z'Z* 08 49 53 D
ipPKP·Z' 52 03
iPKS·N 53 15
e·E 09 11 00
 $\Delta = 129^\circ$. $h = 561$ km. West of Tonga Islands.

25 *iS·NE* 09 08 32
L·NE 11
 $\Delta = 22^\circ$. Novaya Zemlya.

26 *eP·Z'* 07 00 36
L·NE 26
 $\Delta = 75^\circ$. $h = 38$ km. Near south coast of Honshu, Japan.

27 *L·NE* 09 11

27 *iP·Z'* 16 31 20 C
 $\Delta = 71^\circ$. $h = 40$ km. Near east coast of Honshu, Japan.

28 *eP·Z'* 01 32 54
 Local shock.

28 *eP·Z'* 08 24 52
 $\Delta = 75^\circ$. $h = 38$ km. Near south coast of Honshu, Japan.

28 *iP·Z'Z* 11 07 26 C
isP·ZNE 07 57
iPP·ZNE 09 05
iS·NE 13 17
iSS·NE 16 31
L·ZNE 21
 $\Delta = 40^\circ$. $h = 120$ km. Southern Greece.

29 *eP·Z'* 22 48 39 C
eS·E 58 12
eSKS·N 58 42
L·NE 23 14
 $\Delta = 75^\circ$. $h = 33$ km. Near south coast of Honshu, Japan.

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August

30	<i>eP·Z'</i>	13 ^b 44 ^m 30 ^s	
	<i>eS·NE</i>	51 52	
	<i>L·NE</i>	14 01	
		$\Delta = 51^\circ$, $h = 37$ km.	Utah.
30	<i>eP·Z'</i>	13 57 50	
			Local shock.
30	<i>iPKP·Z'</i>	17 36 56	D
	<i>ePS·N</i>	49 03	
	<i>L·E</i>	18 19	
		$\Delta = 128^\circ$, $h = 33$ km.	Tonga Islands.
31	<i>L·NE</i>	11 37	
31	<i>eP·Z'</i>	16 35 50	
		$\Delta = 57^\circ$, $h = 48$ km.	Off east coast of Kamchatka.
31	<i>iP·Z'ZN</i>	17 12 32	C
	<i>e·Z</i>	12 44	
	<i>iPeS·Z'</i>	17 23	
	<i>eS·NE</i>	20 29	
	<i>L·NE</i>	30	
		$\Delta = 57^\circ$, $h = 32$ km.	Adreanof Islands, Aleutian Islands.
31	<i>iP·Z'</i>	18 05 56	
		$\Delta = 57^\circ$, $h = 43$ km.	Adreanof Islands, Aleutian Islands.

September

1	<i>iP·Z'</i>	03 55 54	C
	<i>ePS·N</i>	04 03 56	
	<i>L·NE</i>	16	
		$\Delta = 57^\circ$, $h = 25$ km.	Adreanof Islands, Aleutian Islands.
1	<i>iP·Z'</i>	04 51 28	C
		$\Delta = 57^\circ$, $h = 37$ km.	Adreanof Islands, Aleutian Islands.
1	<i>iPKP·Z'</i>	05 10 45	
		$\Delta = 125^\circ$, $h = 244$ km.	New Hebrides Islands.
1	<i>iP·Z'</i>	08 00 54	C
	<i>eS·N</i>	09 06	
	<i>ePS·N</i>	09 21	
	<i>L·NE</i>	20	
		$\Delta = 65^\circ$, $h = 46$ km.	West Pakistan.
1	<i>iP·Z'ZE</i>	19 29 41	C
	<i>iPP·NE</i>	31 38	
	<i>eS·N</i>	36 45	
	<i>ePS·NE</i>	37 08	
	<i>iSS·NE</i>	40 28	
		$\Delta = 51^\circ$, $h = 20$ km.	Iran.
1	<i>iP·Z'</i>	23 46 00	
		$\Delta = 11^\circ$, $h = 19$ km.	Greenland Sea.
2	<i>iP·Z'</i>	10 52 52	D
	<i>L·NE</i>	54	
		$\Delta = 3^\circ$, $h = 33$ km.	Jan Mayen Island region.

September

4	<i>eP·Z'</i>	13 ^b 39 ^m 13 ^s	
	<i>L·E</i>	57	
		$\Delta = 51^\circ$, $h = 53$ km.	Iran.
4	<i>iP·Z'</i>	17 27 03	
	<i>L·NE</i>	45	
		$\Delta = 55^\circ$, $h = 41$ km.	Near coast of northern California.
4	<i>iP·Z'</i>	21 54 51	
		$\Delta = 49^\circ$, $h = 39$ km.	North Atlantic Ridge.
4	<i>iP·Z'</i>	22 17 08	
			Local shock.
4	<i>eP·Z'</i>	23 07 35	
	<i>eS·E</i>	14 19	
	<i>eSS·NE</i>	17 49	
	<i>L·NE</i>	23	
		$\Delta = 45^\circ$, $h = 33$ km.	Turkey - USSR border region.
8	<i>eP·Z'</i>	10 22 58	
		$\Delta = 22^\circ$, $h = 0$.	Novaya Zemlya.
9	<i>iP·Z'</i>	01 47 59	C
		$\Delta = 96^\circ$, $h = 62$ km.	Panay, Philippine Islands.
10	<i>iP·Z'</i>	09 44 33	D
		$\Delta = 44^\circ$, $h = 33$ km.	Eastern Mediterranean Sea.
10	<i>iPKP·Z'Z</i>	16 01 56	D
	<i>e·Z'Z</i>	04 10	
	<i>ipPKP·Z'Z</i>	04 22	
	<i>iPKS·NE</i>	05 22	
	<i>eSS·N</i>	20 42	
		$\Delta = 129^\circ$, $h = 612$ km.	West of Tonga Islands.
12	<i>iP·Z'Z</i>	21 06 39	
	<i>eS·NE</i>	14 33	
	<i>iScS·E</i>	16 31	
	<i>L·NE</i>	25	
		$\Delta = 57^\circ$, $h = 56$ km.	Hindu Kush region.
13	<i>eP·Z'</i>	14 45 48	
		$\Delta = 66^\circ$, $h = 78$ km.	Windward Islands.
15	<i>L·E</i>	08 14	
15	<i>iP·Z'ZN</i>	23 01 01	C
	<i>iS·NE</i>	09 24	
	<i>iPS·N</i>	09 42	
	<i>iSS·E</i>	13 27	
	<i>L·NE</i>	22	
		$\Delta = 61^\circ$, $h = 33$ km.	Kurile Islands region.
16	<i>iP·Z'</i>	16 49 59	
	<i>i·Z'</i>	50 02	
			Local shock.
17	<i>iP·Z'</i>	04 31 00	
			Local shock.

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September

17	<i>iPKP·Z'</i>	18 ^b 13 ^m 44 ^s	D
	<i>epPKP·Z'</i>	15 56	
		$\Delta = 128^\circ$, $h = 626$ km.	West of Tonga Islands.
18	<i>eP·Z'</i>	00 40 36	
	<i>iS·NE</i>	50 03	
	<i>ePS·E</i>	50 24	
	<i>iScS·NE</i>	50 42	
	<i>L·NE</i>	01 01	
		$\Delta = 73^\circ$, $h = 33$ km.	South of Panama.
19	<i>iP·Z'</i>	05 17 11	C
		$\Delta = 61^\circ$, $h = 466$ km.	Sea of Okhotsk.
19	<i>L·NE</i>	11 11	
22	<i>eP·Z'</i>	07 03 05	
	<i>iS·NE</i>	12 43	
	<i>L·N</i>	27	
		$\Delta = 74^\circ$, $h = 33$ km.	Burma.
22	<i>eP·Z'</i>	08 16 08	
		$\Delta = 57^\circ$, $h = 71$ km.	Hindu Kush region.
24	<i>iP·Z'</i>	14 46 12	D
		$\Delta = 66^\circ$, $h = 33$ km.	Hokkaido, Japan region.
27	<i>L·E</i>	08 14	

October

1	<i>iP·Z'</i>	10 03 45	C
		$\Delta = 62^\circ$, $h = 127$ km.	Kurile Islands.
1	<i>iP·Z'</i>	12 24 03	C
		$\Delta = 60^\circ$, $h = 16$ km.	Southern Iran.
			No time - marks from Oct. 2 ^d 22 ^h - Oct. 6 ^d 15 ^h .
6	<i>ePKP·Z'</i>	23 50 38	
		$\Delta = 127^\circ$, $h = 42$ km.	New Hebrides Islands.
8	<i>eP·Z'Z</i>	22 08 42	C
	<i>L·ZNE</i>	33	
		$\Delta = 82^\circ$, $h = 29$ km.	Taiwan region.
13	<i>iP·Z'</i>	10 32 39	C
	<i>eS·NE</i>	39 58	
	<i>L·E</i>	50	
		$\Delta = 51^\circ$, $h = 33$ km.	Western Iran.
14	<i>iP·Z'</i>	04 19 49	D
			Local shock.
14	<i>eP·Z'</i>	15 20 58	
		$\Delta = 76^\circ$, $h = 33$ km.	Kyushu, Japan.
15	<i>ePKP·Z'</i>	23 56 26	C
		$\Delta = 153^\circ$, $h = 33$ km.	South Island, New Zealand.

October

16	<i>eP·Z'</i>	18 ^b 12 ^m 15 ^s	
	<i>L·N</i>	32	
		$\Delta = 57^\circ$, $h = 27$ km.	Adreanof Islands, Aleutian Islands.
17	<i>iP·Z'</i>	12 50 22	
		$\Delta = 75^\circ$, $h = 33$ km.	South of Honshu, Japan.
18	<i>iP·Z'</i>	08 51 11	C
	<i>isP·Z'</i>	51 52	
		$\Delta = 63^\circ$, $h = 140$ km.	Kurile Islands.
18	<i>eP·Z'</i>	11 32 56	
		$\Delta = 63^\circ$, $h = 128$ km.	Kurile Islands.
21	<i>iP·Z'</i>	02 13 22	C
	<i>ipP·Z'</i>	13 39	
	<i>iPP·Z'</i>	15 12	
	<i>ipPP·Z'</i>	15 31	
		$\Delta = 44^\circ$, $h = 80$ km.	Southern Alaska.
22	<i>eP·Z'</i>	15 33 40	
		$\Delta = 60^\circ$, $h = 19$ km.	Kurile Islands.
25	<i>eP·Z'</i>	09 48 13	
	<i>ePP·Z'</i>	52 36	
		$\Delta = 103^\circ$, $h = 33$ km.	Talau Islands.
25	<i>ePKP·Z'</i>	20 27 34	D
		$\Delta = 170^\circ$, $h = 33$ km.	Balleny Islands region.
26	<i>ePKP·Z'</i>	07 39 28	
		$\Delta = 127^\circ$, $h = 33$ km.	New Hebrides Islands.
26	<i>eP·Z'</i>	11 34 31	C
		$\Delta = 46^\circ$, $h = 33$ km.	Mediterranean Sea.
28	<i>eP·Z'</i>	23 03 57	D
	<i>epP·Z'</i>	04 23	
		$\Delta = 69^\circ$, $h = 97$ km.	Near coast of Chiapas, Mexico.
29	<i>eP·Z'</i>	00 31 13	C
		$\Delta = 73^\circ$, $h = 42$ km.	Panama.
30	<i>ePKP·Z'</i>	02 05 34	
	<i>e·Z'</i>	05 45	
		$\Delta = 126^\circ$, $h = 33$ km.	Southwest of Africa.
31	<i>eP·Z'</i>	11 44 11	C
		$\Delta = 75^\circ$, $h = 33$ km.	South of Panama.
			November
1	<i>iP·Z'</i>	15 57 07	
			Local shock.
1	<i>iP·Z'</i>	23 31 31	D
		$\Delta = 65^\circ$, $h = 131$ km.	Kurile Islands.
2	<i>eP·Z'</i>	15 11 46	
		$\Delta = 72^\circ$, $h = 67$ km.	Near east coast of Honshu, Japan.

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November		November	
3	<i>eP·Z'</i> $\Delta = 8^\circ$. $h = 37$ km. Norwegian Sea.	11	<i>eP·Z'</i> $\Delta = 50^\circ$. $h = 33$ km. East of Lake Baikal, U.S.S.R.
3	<i>eP·Z'</i> $\Delta = 8^\circ$. Norwegian Sea.	11	<i>eP·Z'</i> $\Delta = 65^\circ$. $h = 34$ km. Red Sea.
4	<i>ePKP·Z'</i> $\Delta = 120^\circ$. $h = 33$ km. Off coast of southern Chile.	11	<i>iPKP·Z'</i> $\Delta = 122^\circ$. $h = 77$ km. Santa Cruz Islands.
5	<i>iP·Z'</i> $\Delta = 11^\circ$. $h = 32$ km. Norwegian Sea.	11	<i>eP·Z'</i> $e·Z'$
6	<i>eP·Z'</i> $\Delta = 58^\circ$. $h = 30$ km. Southern Iran.	11	<i>ePKP·Z'</i> $\Delta = 120^\circ$. $h = 33$ km. Off coast of southern Chile.
6	<i>iP·Z'</i> $\Delta = 51^\circ$. $h = 44$ km. Washington - Oregon border region.	12	<i>iP·Z'</i> $\Delta = 81^\circ$. $h = 40$ km. Ryukyu Islands.
6	<i>eP·Z'</i> $\Delta = 95^\circ$. $h = 51$ km. Panay, Phillippine Islands.	14	<i>eP·Z'</i> $\Delta = 73^\circ$. $h = 61$ km. Near east coast of Honshu, Japan.
7	<i>eP·Z'</i> Local shock.	15	<i>iP·Z'Z</i> $\Delta = 88^\circ$. $h = 45$ km. Near coast of northern Peru.
7	<i>iP·Z'</i> $\Delta = 31^\circ$. $h = 33$ km. Azores region.	16	<i>ePP·Z'</i> $\Delta = 120^\circ$. $h = 33$ km. Easter Island Cordillera.
7	<i>ePKP·Z'</i> $\Delta = 113^\circ$. $h = 182$ km. Flores Sea.	16	<i>iP·Z'</i> $\Delta = 85^\circ$. $h = 33$ km. Andaman Islands region.
7	<i>iP·Z'</i> $\Delta = 57^\circ$. $h = 43$ km. Rat Islands, Aleutian Islands.	17	<i>eP·Z'</i> $\Delta = 71^\circ$. $h = 12$ km. Near coast of Guerrero, Mexico.
8	<i>L·NE</i>	19	<i>eP·Z'</i> $\Delta = 53^\circ$. $h = 33$ km. Unimak Island region.
8	<i>eP·Z'</i> $\Delta = 57^\circ$. $h = 33$ km. Rat Islands, Aleutian Islands.	20	<i>eP·Z'</i> $\Delta = 54^\circ$. $h = 23$ km. Kamchatka.
9	<i>eP·Z'</i> $\Delta = 52^\circ$. $h = 44$ km. Western Iran.	23	<i>eP·Z'</i> $\Delta = 93^\circ$. $h = 33$ km. Near coast of Peru.
9	<i>eP·Z'</i> $\Delta = 6^\circ$. Norwegian Sea.	23	<i>ePKP·Z'</i> $\Delta = 128^\circ$. $h = 690$ km. West of Tonga Islands.
9	<i>iP·Z'</i> $\Delta = 73^\circ$. $h = 33$ km. Near east coast of Honshu, Japan.	24	<i>iP·Z'</i> $\Delta = 62^\circ$. $h = 33$ km. Central Mid-Atlantic Ridge.
9	<i>iP·Z'</i> $\Delta = 82^\circ$. $h = 452$ km. Bonin Islands region.		
10	<i>iP·Z'ZN</i> $\Delta = 66^\circ$. $h = 33$ km. Kurile Islands.		

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November		December	
25	<i>eP·Z'</i> $\Delta = 69^\circ$. $h = 125$ km. Oaxaca, Mexico.	7	<i>iP·Z'</i> $\Delta = 79^\circ$. $h = 411$ km. South of Honshu, Japan.
16	<i>iP·Z'</i> $\Delta = 56^\circ$. $h = 14$ km. Southern Sinkiang Province, China.	8	<i>e·Z'</i> $\Delta = 58^\circ$. $h = 33$ km. Adreanof Islands, Aleutian Islands.
26	<i>iP·Z'</i> $\Delta = 66^\circ$. $h = 33$ km. Hokkaido, Japan region.	9	<i>eP·Z'</i> Local shock.
26	<i>ePKP·Z'</i> $\Delta = 132^\circ$. $h = 19$ km. Tonga Islands region.	9	<i>eP·Z'</i> Near shock.
27	<i>iP·Z'</i> $\Delta = 81^\circ$. $h = 148$ km. Taiwan region.	9	<i>eP·Z'</i> $\Delta = 69^\circ$. $h = 33$ km. Honshu, Japan.
28	<i>eP·Z'</i> $\Delta = 85^\circ$. $h = 82$ km. Volcano Islands region.	12	<i>iP·Z'</i> $\Delta = 75^\circ$. $h = 407$ km. Near south coast of Honshu, Japan.
28	<i>eP·Z'</i> $\Delta = 126^\circ$. $h = 33$ km. New Hebrides Islands.	12	<i>ePKP·Z'</i> $\Delta = 130^\circ$. $h = 33$ km. South Sandwich Islands region.
29	<i>ePKP·Z'</i> $\Delta = 70^\circ$. $h = 57$ km. Guerrero, Mexico.	13	<i>iP·Z'</i> Local shock.
30	<i>eP·Z'Z</i> $\Delta = 55^\circ$. $h = 38$ km. Fox Islands, Aleutian Islands.	13	<i>eP·Z'</i> $\Delta = 42^\circ$. $h = 47$ km. Central Alaska.
December		13	<i>iP·Z'</i> Local shock.
1	<i>iP·Z'</i> $\Delta = 55^\circ$. $h = 38$ km. Fox Islands, Aleutian Islands.	13	<i>eP·Z'</i> $\Delta = 43^\circ$. $h = 69$ km. Southern Alaska.
1	<i>ePKP·Z'</i> $\Delta = 137^\circ$. $h = 52$ km. Kermadec Islands.	14	<i>eP·Z'</i> $\Delta = 50^\circ$. $h = 30$ km. U.S.S.R. - Mongolia border region.
1	<i>ePKP·Z'</i> $\Delta = 125^\circ$. $h = 620$ km. West of Tonga Islands.	16	<i>eP·Z'</i> Local shock.
4	<i>eP·Z'</i> Local shock.		
6	<i>eP·Z'</i> $\Delta = 78^\circ$. $h = 33$ km. South of Honshu, Japan.		
6	<i>eP·Z'</i> $\Delta = 60^\circ$. $h = 85$ km. Kurile Islands.		
7	<i>eP·Z'</i> $\Delta = 65^\circ$. $h = 33$ km. Northern China.		

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December	
17	<i>ePKP·Z'</i> 11 ^h 17 ^m 47 ^s $\Delta = 105^\circ$. $h = 393$ km. Celebes Sea.
18	<i>eP·Z'</i> 07 41 50 Local shock.
18	<i>eP·Z'</i> 08 12 22 Local shock.
18	<i>eP·Z'</i> 08 43 59 Local shock.
18	<i>iP·Z'</i> 10 16 11 Local shock.
19	<i>iP·Z'</i> 20 03 23 D <i>iS·Z'</i> 03 31 Local shock.
19	<i>iP·Z'</i> 23 38 22 Local shock.
21	<i>eP·Z'</i> 06 37 19 $\Delta = 55^\circ$. $h = 33$ km. Fox Islands, Aleutian Islands.
21	<i>iP·Z'Z</i> 08 52 19 D <i>eS·E</i> 09 00 07 <i>ePS·N</i> 00 19 <i>eScS·E</i> 02 14 <i>L·NE</i> 13 $\Delta = 55^\circ$. $h = 33$ km. Fox Islands, Aleutian Islands.
21	<i>eP·Z'</i> 08 59 35 $\Delta = 55^\circ$. $h = 33$ km. Repetition.
21	<i>iP·Z'</i> 09 10 12 $\Delta = 55^\circ$. $h = 33$ km. Repetition.
21	<i>iP·Z'Z</i> 09 19 32 $\Delta = 55^\circ$. $h = 33$ km. Repetition.
21	<i>iP·Z'</i> 09 44 07 C $\Delta = 66^\circ$. $h = 27$ km. Hokkaido, Japan region.
22	<i>ePKP·Z'</i> 01 11 34 <i>iPKS·Z'</i> 14 56 $\Delta = 131^\circ$. $h = 33$ km. Loyalty Islands region.
22	<i>eP·Z'</i> 15 30 00 C <i>eS·E</i> 37 48 <i>ePS·N</i> 37 53 <i>eSS·N</i> 42 15 <i>L·NE</i> 46 $\Delta = 56^\circ$. $h = 47$ km. Fox Islands, Aleutian Islands.

December	
23	<i>eP·Z'</i> 10 ^h 57 ^m 43 ^s $\Delta = 55^\circ$. $h = 53$ km. Fox Islands, Aleutian Islands.
24	<i>iP·Z'</i> 11 16 53 D <i>L·NE</i> 25 $\Delta = 24^\circ$. $h = 0$ km. Novaya Zemlya.
26	<i>eP·Z'</i> 09 04 46 <i>L·E</i> 15 $\Delta = 33^\circ$. $h = 19$ km. North Atlantic Ocean.
26	<i>iP·Z'ZN</i> 22 34 50 <i>iS·NE</i> 42 37 <i>iPS·NE</i> 42 47 <i>L·ZNE</i> 53 $\Delta = 56^\circ$. $h = 33$ km. Komandorsky Islands region.
26	<i>eP·Z'</i> 23 36 07 $\Delta = 67^\circ$. $h = 34$ km. Near coast of West Pakistan.
26	<i>eP·Z'</i> 23 55 49 $\Delta = 56^\circ$. $h = 33$ km. Komandorsky Islands region.
27	<i>iP·Z'</i> 18 29 48 C $\Delta = 69^\circ$. $h = 36$ km. Near east coast of Honshu, Japan.
28	<i>iP·Z'</i> 20 00 59 D $\Delta = 66^\circ$. $h = 41$ km. Hokkaido, Japan region.
28	<i>iP·Z'</i> 21 51 57 D $\Delta = 87^\circ$. $h = 33$ km. South Atlantic Ridge.
28	<i>eP·Z'</i> 23 37 34 $\Delta = 43^\circ$. $h = 82$ km. Crete.
29	<i>eP·Z'</i> 10 54 20 <i>ePP·Z'</i> 58 21 <i>eSKS·NE</i> 11 05 19 <i>eS·NE</i> 06 05 <i>eSS·N</i> 12 32 <i>L·NE</i> 29 $\Delta = 97^\circ$. $h = 49$ km. Near coast of northern Chile.
29	<i>e·E</i> 15 28 14 <i>L·N</i> 53
31	<i>eP·Z'</i> 08 10 08 $\Delta = 57^\circ$. $h = 53$ km. Off east coast of Kamchatka.

January 1967

Erik Moller.