

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

SCORESBYSUND

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

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'*. $T_p = 1 \text{ sec}$, $T_g = \frac{1}{4} \text{ sec}$. 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^s0 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.

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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
ippP·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.

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March		March	
6	<i>eP·Z'</i> 06 ^h 08 ^m 23 ^s L·NE 44 $\Delta = 85^\circ$. $h = 33$ km. Andaman Islands region.	13	<i>eP·Z'</i> 23 ^h 51 ^m 39 ^s Local shock.
6	<i>eP·Z'</i> 20 29 35 $\Delta = 10^\circ$. Iceland region.	14	<i>iP·Z'</i> 00 44 23 $\Delta = 53^\circ$. $h = 15$ km. Off east coast of Kamchatka.
7	<i>eP·Z'</i> 01 45 05 L·NE 47 $\Delta = 10^\circ$. $h = 33$ km. Iceland region.	15	<i>iP·Z'</i> 02 01 52 D $\Delta = 63^\circ$. $h = 52$ km. Kurile Islands.
7	<i>eP·Z'</i> 02 09 29 $\Delta = 10^\circ$. $h = 35$ km. Iceland region.	15	<i>eP·Z'</i> 04 46 01 $\Delta = 53^\circ$. $h = 33$ km. Unimak Island 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.	15	<i>iPKP·Z'</i> 13 25 07 $\Delta = 134^\circ$. $h = 623$ km. South of Fiji Islands.
7	<i>iP·Z'</i> 11 30 21	16	<i>iP·Z'</i> 09 54 24 $\Delta = 80^\circ$. $h = 177$ km. Ryukyu Islands.
8	<i>eP·Z'</i> 10 57 36 D $\Delta = 64^\circ$. $h = 56$ km. Kurile Islands.	16	<i>ePKP·Z'</i> 20 01 29 $\Delta = 120^\circ$. $h = 25$ km. Santa Cruz Islands.
8	<i>eP·Z'</i> 21 50 56 $\Delta = 82^\circ$. $h = 35$ km. Lake Tanganyika region.	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.
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.	17	<i>iP·Z'</i> 21 27 22
10	<i>iP·Z'</i> 08 56 27 D $\Delta = 82^\circ$. $h = 31$ km. Taiwan.	18	<i>eP·Z'</i> 05 39 26 C $\Delta = 68^\circ$. $h = 33$ km. Near east coast of Honshu, Japan.
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.	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.
12	<i>eP·Z'</i> 09 53 00 L·NE 10 18 $\Delta = 73^\circ$. $h = 25$ km. Near south coast of Panama and Costa Rica.	18	L·NE 21 01
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.	19	<i>iP·Z'</i> 06 08 32 C $\Delta = 106^\circ$. $h = 150$ km. Northern Celebes.
13	<i>eP·Z'</i> 08 49 44 Local shock.	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 *ePKP·Z'* 15^h31^m42^s
ePP·Z'ZNE 32 25
eS·E 40 03
ePS·NE 41 58
eSS·E 47 58
L·NE 16 09
 $\Delta = 112^\circ$. $h = 100$ km. Near north coast of New Guinea.
- 24 *eP·Z'* 00 01 56
 Local shock.
- 24 *ePKP·Z'* 13 18 07
iSKKS·N 25 22
eS·N 26 51
eSS·N 35 15
L·NE 55
 $\Delta = 115^\circ$. $h = 100$ km. New Guinea.
- 24 *eP·Z'* 13 28 42
- 24 *eP·Z'* 21 56 58
 Local shock.
- 25 *eP·Z'* 08 22 19
 $\Delta = 57^\circ$. $h = 45$ km. Fox Islands, Aleutian Islands.
- 25 *eP·Z'* 21 45 04
 $\Delta = 37^\circ$. $h = 343$ km. Tyrrhenian Sea.
- 26 *iP·Z'* 09 29 33 C
 $\Delta = 39^\circ$. $h = 33$ km. Ionian Sea.
- 26 *eP·Z'* 12 16 10
 $\Delta = 71^\circ$. $h = 33$ km. Central Mid-Atlantic Ridge.
- 28 *iP·Z'* 01 02 12 C
 $\Delta = 57^\circ$. $h = 108$ km. Afghanistan - USSR border region.
- 28 *ePP·Z'* 04 22 54
 $\Delta = 98^\circ$. $h = 33$ km. Northern Sumatra.
- 28 *eP·Z'* 13 35 34 C
 $\Delta = 53^\circ$. $h = 33$ km. Kazakh-Sinkiang border region.
- 28 *eP·Z'* 15 22 29
 Local shock.
- 29 *eP·Z'* 02 02 05
 $\Delta = 58^\circ$. $h = 123$ km. Kamchatka.
- 29 *eP·Z'* 19 33 42
 $\Delta = 11^\circ$. $h = 33$ km. Greenland Sea.
- April
- 1 *iP·Z'* 00 54 53 C
 $\Delta = 55^\circ$. $h = 33$ km. Iran.
- 1 *iP·Z'* 05 12 51 D
 $\Delta = 68^\circ$. $h = 55$ km. Hokkaido, Japan region.

April

- 1 *eP·Z'* 09^h32^m21^s
 $\Delta = 28^\circ$. $h = 25$ km. East of Severnaya Zemlya.
- 1 *iP·Z'* 12 09 26 D
 $\Delta = 54^\circ$. $h = 36$ km. Fox Islands, Aleutian Islands.
- 1 *ePP·Z'* 12 30 16
 $\Delta = 113^\circ$. $h = 80$ km. New Guinea.
- 2 *eP·Z'* 00 27 31
ipP·Z' 28 16
iPP·Z' 31 13
 $\Delta = 91^\circ$. $h = 205$ km. Mariana Islands.
- 3 *ePKP·Z'* 16 44 06
 $\Delta = 120^\circ$. $h = 36$ km. Santa Cruz Islands.
- 4 *eP·Z'* 02 26 11
e·Z' 28 05
 Near shock.
- 4 *eP·Z'* 10 45 21
 Local shock.
- 4 *eP·Z'* 14 14 02
L·NE 41
 $\Delta = 72^\circ$. $h = 23$ km. Costa Rica.
- 4 *eP·Z'* 20 03 14
 $\Delta = 44^\circ$. $h = 27$ km. Crete.
- 4 *iP·Z'* 20 59 14 C
 $\Delta = 44^\circ$. $h = 21$ km. Crete.
- 4 *iP·Z'* 21 07 44
 $\Delta = 44^\circ$. $h = 25$ km. Crete.
- 5 *iP·Z'* 03 49 26 C
 $\Delta = 53^\circ$. $h = 65$ km. Unimak Island region.
- 6 *iP·Z'* 04 37 55 D
 Local shock.
- 7 *eP·Z'* 01 21 30
 Local shock.
- 7 *ePS·NE* 06 48 20
 $\Delta = 98^\circ$. $h = 50$ km. South of Mariana Islands.
7. *eP·Z'* 12 22 38
 Local shock.
- 10 *iP·Z'* 21 44 42 C
iS·N 50 50
eSS·NE 53 45
L·NE 58
 $\Delta = 40^\circ$. $h = 35$ km. Ionian Sea.
- 10 *iP·Z'* 22 18 26 C
 $\Delta = 40^\circ$. $h = 25$ km. Ionian Sea.

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April

- 11 *iP·Z'* 09^h31^m33^s C
 $\Delta = 80^\circ$. $h = 25$ km. Ryukyu Islands.
- 11 *iP·Z'* 10 55 01
L·NE 11 08
 $\Delta = 40^\circ$. $h = 43$ km. Greece.
- 12 *iP·Z'ZN* 01 04 00 C
iPcP·Z 04 25
 $\Delta = 71^\circ$. $h = 48$ km. Near east coast of Honshu, Japan.
- 13 *iP·Z'* 18 43 30
- 15 *eP·Z'* 18 19 58
 $\Delta = 73^\circ$. $h = 25$ km. North of Ascension Island.
- 15 *eP·Z'* 18 56 50
L·NE 19 24
 $\Delta = 73^\circ$. $h = 25$ km. North of Ascension Island.
- 15 *iPKP·Z'* 22 50 02 C
 $\Delta = 125^\circ$. $h = 25$ km. South Sandwich Islands region.
- 16 *iP·Z'* 00 22 44
 $\Delta = 39^\circ$. $h = 25$ km. Greece.
- 16 *iP·Z'* 13 32 03 D
ipP·Z' 32 30
iS·NE 41 53
isS·NE 42 40
 $\Delta = 78^\circ$. $h = 176$ km. South of Honshu, Japan.
- 17 *eP·Z'* 11 41 25
 $\Delta = 40^\circ$. $h = 25$ km. Ionian Sea.
- 17 *ePKP·Z'* 18 02 55
 $\Delta = 152^\circ$. $h = 25$ km. Off east coast of South Island, New Zealand.
- 17 *iP·Z'Z* 21 05 24
 $\Delta = 71^\circ$. $h = 43$ km. Near east coast of Honshu, Japan.
- 17 *eP·Z'* 22 46 20 D
eS·NE 55 49
eScS·E 56 43
L·NE 23 10
 $\Delta = 72^\circ$. $h = 25$ km. North of Ascension Island.
- 18 *iP·Z'* 07 59 36
 Near shock.
- 18 *iP·Z'* 19 27 28 C
i·Z'Z 27 43
eSKS·E 37 55
iS·E 38 13
i·N 38 37
iPS·N 39 10
eSS·NE 44 15
L·NE 54
 $\Delta = 89^\circ$. $h = 23$ km. Near coast of Peru.

April

- 19 *eP·Z'* 02^h13^m26^s C
 $\Delta = 39^\circ$. $h = 25$ km. Greece.
- 19 *iP·Z'* 02 31 51
i·Z' 32 05
 $\Delta = 89^\circ$. $h = 23$ km. Near coast of Peru.
- 19 *eP·Z'* 20 31 05
 $\Delta = 88^\circ$. $h = 25$ km. Off coast of northern Peru.
- 19 *ePKP·Z'* 22 33 57
 $\Delta = 125^\circ$. $h = 213$ km. New Hebrides Islands.
- 19 *iP·Z'* 23 23 39 C
i·Z'Z 23 44
ePP·N 25 14
L·ZNE 36
 $\Delta = 40^\circ$. $h = 17$ km. Eastern Siberia.
- 20 *iP·Z'ZNE* 05 57 48 C
iPP·Z 59 58
iS·NE 06 05 48
iScS·NE 07 32
L·ZNE 16
 $\Delta = 58^\circ$. $h = 25$ km. Haiti region.
- 22 *eP·Z'* 04 56 22
eS·NE 05 05 25
L·NE 20
 $\Delta = 69^\circ$. $h = 69$ km. Near coast of Chiapas, Mexico.
- 22 *iP·Z'* 19 26 59
epP·Z' 27 42
 $\Delta = 75^\circ$. $h = 181$ km. Kyushu, Japan.
- 23 *iP·Z'* 04 06 01 C
 $\Delta = 72^\circ$. $h = 80$ km. Honshu, Japan.
- 23 *iP·Z'* 06 08 57 C
iS·E 17 49
L·E 31
ePKPPKP·Z' 37 27
 $\Delta = 66^\circ$. $h = 25$ km. Hokkaido, Japan region.
- 24 *iP·Z'* 16 18 19 C
 $\Delta = 81^\circ$. $h = 175$ km. Peru - Ecuador border region.
- 25 *eP·Z'* 06 29 58
 $\Delta = 39^\circ$. $h = 25$ km. Greece.
- 25 *iP·Z'* 15 58 41 C
eS·E 16 07 58
L·E 22
 $\Delta = 70^\circ$. $h = 56$ km. Near east coast of Honshu, Japan.
- 26 *iPKP·Z'* 07 44 24 C
ipPKP·Z' 46 20
isPKP·Z' 47 10
 $\Delta = 124^\circ$. $h = 657$ km. West of Tonga Islands.

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April

- 27 *iP·Z'* 06h36m48s
Local shock.
- 27 *eSKP·Z'* 06 51 10 C
 $\Delta = 132^\circ$. $h = 576$ km. South of Fiji Islands.
- 27 *L·ZN* 07 50
- 28 *iP·Z'Z* 11 26 55 C
ePP·Z 28 36
eSS·N 36 37
L·N 41
 $\Delta = 43^\circ$. $h = 40$ km. Dodecanese Islands.
- 28 *eP·Z'* 11 51 45 C
 $\Delta = 43^\circ$. $h = 48$ km. Dodecanese Islands.
- 30 *iP·Z'ZN* 02 37 37 C
ePP·E 40 20
ePS·E 47 22
L·NE 03 01
 $\Delta = 70^\circ$. $h = 104$ km. Honshu, Japan.
- 30 *eP·Z'* 04 59 49
eS·Z' 05 01 23
L·E 01 56
 $\Delta = 9^\circ$. Eastern Greenland.
- 30 *ePKP·Z'* 16 35 51
ePP·ZN 37 39
e·N 39 20
eSKKS·N 44 48
L·ZNE 17 20
 $\Delta = 125^\circ$. $h = 33$ km. West of Tonga Islands.
- 30 *iPKP·Z'* 18 49 59 D
L·ZNE 19 34
 $\Delta = 125^\circ$. $h = 92$ km. West of Tonga Islands.
- 30 *iP·Z'* 23 52 24
eS·NE 54 02
L·NE 54
 $\Delta = 10^\circ$. $h = 25$ km. Norwegian Sea.

May

- 1 *eP·Z'* 00 02 24
 $\Delta = 9^\circ$. $h = 64$ km. Greenland Sea.
- 1 *eP·Z'* 10 08 50 D
 $\Delta = 50^\circ$. Normal depth. Southern Algeria.
- 2 *eP·Z'* 02 52 20
 $\Delta = 50^\circ$. $h = 25$ km. Kodiak Island region.
- 2 *iP·Z'* 09 09 53 D
 $\Delta = 100^\circ$. $h = 177$ km. Juyjuy Province, Argentina.
- 3 *iP·Z'* 02 48 48 D
 $\Delta = 66^\circ$. $h = 49$ km. Hokkaido, Japan region.

May

- 3 *iPKP·Z'* 03h54m04s
 $\Delta = 130^\circ$. $h = 20$ km. Scotia Sea.
- 5 *iP·Z'* 11 23 26 C
eS·E 33 04
L·NE 52
 $\Delta = 75^\circ$. $h = 57$ km. Near south coast of Honshu, Japan.
- 6 *ePKP·Z'* 03 53 33
 $\Delta = 147^\circ$. $h = 25$ km. South Pacific Cordillera.
- 6 *iPKP·Z'Z* 19 19 22 D
ePP·Z 21 35
iPKS·ZN 22 47
i·NE 22 58
eSS·NE 39 35
eSSS·E 44 05
L·ZNE 20 00
 $\Delta = 130^\circ$. $h = 33$ km. South Sandwich Islands region.
- 6 *iPKP·Z'* 22 13 00 C
 $\Delta = 130^\circ$. $h = 33$ km. Scotia Sea.
- 7 *iP·Z'* 17 50 25 C
iPPP·N 54 29
iS·NE 59 05
iPS·N 59 25
i·E 18 06 43
L·E 08
ePKPPKP·Z' 19 12
 $\Delta = 64^\circ$. $h = 20$ km. Kurile Islands.
- 7 *ePKP·Z'* 19 22 41 D
ePKS·Z' 25 59
 $\Delta = 130^\circ$. $h = 25$ km. South Sandwich Islands region.
- 9 *iP·Z'* 00 01 51 C
ipP·Z' 02 06
 $\Delta = 43^\circ$. $h = 86$ km. Crete.
- 9 *iP·Z'* 11 29 31 D
 $\Delta = 63^\circ$. $h = 40$ km. Kurile Islands.
- 9 *eP·Z'* 12 27 27
Near shock.
- 9 *eP·Z'* 18 32 06
 $\Delta = 78^\circ$. Ryukyu Islands.
- 10 *iP·Z'* 00 11 35
iPPP·ZN 13 37
eS·N 17 58
eSS·NE 21 22
L·NE 24
 $\Delta = 43^\circ$. $h = 72$ km. Central Alaska.
- 10 *ePKP·Z'Z* 00 46 57 C
L·NE 01 46
 $\Delta = 150^\circ$. $h = 54$ km. South Island, New Zealand.

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May

- 10 *ePKP·Z'* 04^h50^m46^s
 $\Delta = 149^\circ$. South Island, New Zealand.
- 10 *iP·Z'ZN* 05 21 50 C
iScS·NE 31 40
L·NE 39
 $\Delta = 55^\circ$. $h = 43$ km. Fox Islands, Aleutian Islands.
- 10 *eP·Z'* 09 25 18
 Near shock.
- 10 *iP·Z'* 10 44 05
 Near shock.
- 10 *iP·Z'* 11 19 16 C
 $\Delta = 22^\circ$. $h = 25$ km. North Atlantic Ridge.
- 10 *eP·Z'* 14 22 20 C
 $\Delta = 22^\circ$. $h = 25$ km. North Atlantic Ridge.
- 11 *iP·Z'ZNE* 14 23 03 C
ePP·N 25 54
iS·NE 32 19
iScS·N 33 06
L·NE 44
 $\Delta = 70^\circ$. $h = 40$ km. Guerrero, Mexico.
- 12 *eP·Z'* 05 36 39
 Near shock.
- 12 *iP·Z'* 19 09 46 D
 $\Delta = 57^\circ$. Southern Nevada.
- 14 *eP·Z'* 16 58 00
 $\Delta = 22^\circ$. $h = 25$ km. North Atlantic Ridge.
- 15 *eP·ZN* 05 38 39
ePP·Z'N 43 16
i·Z'ZNE 43 30
iPS·NE 53 01
iPPS·E 54 23
i·NE 59 27
iSSS·N 06 02 58
L·NE 06 14
 $\Delta = 114^\circ$. $h = 34$ km. Banda Sea.
- 15 *iP·Z'* 19 42 04
 $\Delta = 56^\circ$. $h = 30$ km. Near east coast of Kamchatka.
- 17 *ePKP·Z'* 02 39 44 D
 $\Delta = 151^\circ$. $h = 41$ km. South Island, New Zealand.
- 19 *eP·Z'* 12 33 38
 Near shock.
- 19 *iP·Z'ZE* 15 09 23 C
eS·N 18 30
iPS·NE 18 50
iSS·E 22 59
L·NE 33
 $\Delta = 70^\circ$. $h = 33$ km. Guerrero, Mexico.

May

- 19 *eP·Z'* 17^h21^m43^s
i·Z' 22 10
 Near shock.
- 20 *iP·Z'* 00 09 33 D
 $\Delta = 91^\circ$. $h = 70$ km. Near coast of Peru.
- 21 *iP·Z'ZNE* 12 13 24 C
iPP·E 15 47
eS·NE 22 08
iSS·N 26 16
i·E 27 18
ePKPPKP·Z' 32 03
L·NE 34
 $\Delta = 64^\circ$. $h = 25$ km. Tsinghai Province, China.
- 21 *eP·Z'* 12 42 23
 Near shock.
- 21 *iP·Z'* 12 46 52 C
 $\Delta = 64^\circ$. $h = 25$ km. Tsinghai Province, China.
- May
- 21 *eP·Z'* 13 26 15
 $\Delta = 64^\circ$. $h = 25$ km. Tsinghai Province, China.
- 21 *eP·Z'* 15 52 19
 $\Delta = 64^\circ$. $h = 36$ km. Tsinghai Province, China.
- 21 *ePKP·Z'* 21 33 53 C
ipPKP·Z'Z 35 44
i·Z 37 44
 $\Delta = 127^\circ$. $h = 342$ km. West of Tonga Islands.
- 22 *eP·Z'* 00 07 38
e·Z' 08 14
 Near shock.
- 22 *ePKP·Z'* 05 00 20
 $\Delta = 150^\circ$. $h = 42$ km. South Pacific Cordillera.
- 22 *iPKP·Z'* 08 25 17 C
ipPKP·Z' 25 49
ePP·N 26 47
eSKS·N 32 06
ePKKP·Z' 35 19
ePS·N 36 47
L·NE 09 08
 $\Delta = 122^\circ$. $h = 135$ km. Santa Cruz Islands.
- 22 *eP·Z'* 23 39 49
 $\Delta = 64^\circ$. $h = 25$ km. Tsinghai Province, China.
- 23 *eP·Z'* 01 52 44
 $\Delta = 64^\circ$. $h = 50$ km. Tsinghai Province, China.
- 25 *eP·Z'* 00 52 07
L·NE 55
 $\Delta = 14^\circ$. $h = 33$ km. North Atlantic Ocean.

Scoresbysund 1962

May

- 25 *eP·Z'* 17^h18^m20^s
eS·N 18 57
L·N 19 09
 $\Delta = 3^\circ$. Near shock.
- 26 *eP·Z'* 19 57 25
 $\Delta = 93^\circ$. $h = 30$ km. Nicobar Islands region.
- 30 *eP·Z'* 07 09 39
L·NE 11 31
 $\Delta = 7^\circ$. Iceland.
- 30 *eP·Z'* 10 10 44
eS·NE 17 08
eSS·E 20 16
L·NE 23
 $\Delta = 42^\circ$. $h = 33$ km. North Atlantic Ridge.
- 31 *eP·Z'* 02 08 01
 $\Delta = 67^\circ$. $h = 33$ km. West Pakistan.
- 31 *iP·Z'N* 06 40 43 C
iSKS·NE 50 47
ePS·N 52 09
esPS·N 52 48
eSS·E 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 *eS·E* 12 42 17
L·NE 50
 $\Delta = 50^\circ$. $h = 33$ km. Vancouver Island region.
- 2 *eP·Z'* 17 27 08
ePS·E 37 23
L·E 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 *eS·E* 15 18 33
L·NE 26
 $\Delta = 50^\circ$. $h = 33$ km. North Atlantic Ridge.
- 3 *iP·Z'* 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 *L·NE* 18 20
- 8 *eP·Z'* 09 23 18 C
 $\Delta = 79^\circ$. $h = 19$ km. Ryukyu Islands.
- 8 *eP·Z'* 15 20 39
e(L)·Z' 22 18
 Near shock.

June

- 9 *eP·Z'* 09^h08^m17^s
 Near shock.
- 11 *iPKP·Z'* 04 53 21 C
 $\Delta = 127^\circ$. $h = 370$ km. West of Tonga Islands.
- 11 *iP·Z'* 07 22 20 C
eS·NE 27 40
 $\Delta = 33^\circ$. $h = 33$ km. Yugoslavia.
- 12 *eP·Z'* 01 28 08
L·NE 30
 $\Delta = 6^\circ$. $h = 33$ km. Iceland region.
- 12 *eP·Z'* 09 47 54
es·E 49 02
L·NE 49.5
 $\Delta = 6^\circ$. $h = 33$ km. Iceland.
- 14 *iP·Z'Z* 08 01 25 D
eS·N 08 58
ePS·E 09 11
iSS·N 13 05
L·NE 18
 $\Delta = 55^\circ$. $h = 30$ km. Komandorsky Islands region.
- 14 *eP·Z'* 08 05 24 D
 $\Delta = 55^\circ$. $h = 60$ km. Komandorsky Islands region.
- 14 *iP·Z'* 20 30 02 D
 $\Delta = 81^\circ$. $h = 160$ km. Peru – Ecuador border region.
- 17 *eP·Z'* 04 49 47
 $\Delta = 62^\circ$. $h = 34$ km. Eastern Kashmir.
- 17 *iP·Z'* 22 37 54 C
 $\Delta = 57^\circ$. $h = 33$ km. Rat Islands, Aleutian Islands.
- 18 *iP·Z'* 06 29 06 C
 $\Delta = 45^\circ$. $h = 174$ km. Southern Alaska.
- 19 *iPKP·Z'* 00 01 06 C
ePS·NE 11 40
 $\Delta = 114^\circ$. $h = 100$ km. New Britain region.
- 19 *eP·Z'* 19 24 39
 Local shock.
- 19 *iP·Z'* 20 26 09 C
iS·Z' 26 46
 $\Delta = 3^\circ$. Near shock.
- 21 *eP·Z'Z* 04 55 27 C
eS·N 05 05 07
L·NE 17
 $\Delta = 75^\circ$. $h = 23$ km. South of Panama.

Scoresbysund 1962

June

22 *iP·Z'Z* 12^h00^m50^s D
eS·NE 10 41
 $\Delta = 77^\circ$. $h = 33$ km. South of Honshu, Japan.

23 *iP·Z'* 09 56 56 D
ePP·Z'ZN 10 00 04
iS·NE 07 10
iSKS·N 07 15
iPS·ZN 08 03
eSS·N 12 35
L·NE 23
 $\Delta = 82^\circ$. $h = 33$ km. Ryukyu Islands.

23 *eP·Z'* 10 11 08
 $\Delta = 87^\circ$. $h = 45$ km. Philippine Islands region.

24 *eP·Z'Z* 01 33 05 D
eS·E 42 52
L·NE 55
 $\Delta = 76^\circ$. $h = 33$ km. Yunan Province, China.

25 *iPKP·Z'* 01 49 39
 $\Delta = 128^\circ$. $h = 645$ km. West of Tonga Islands.

25 *iP·Z'ZNE* 11 22 45 C
ePP·N 26 12
eS·NE 33 01
eSS·E 38 12
L·NE 50
 $\Delta = 82^\circ$. $h = 33$ km. Taiwan region.

25 *L·NE* 23 02

27 *iP·Z'* 18 09 47 C
 $\Delta = 57^\circ$. Southern Nevada.

28 *iP·Z'Z* 04 39 48 C
eS·NE 50 18
L·NE 05 07
 $\Delta = 84^\circ$. $h = 15$ km. Hawaiian Islands.

28 *eP·Z'* 06 58 12
 $\Delta = 37^\circ$. $h = 40$ km. Southern Albania.

28 *eSKS·NE* 19 15 16
ePS·E 18 23
 $\Delta = 106^\circ$. $h = 58$ km. Molucca Sea.

29 *L·NE* 03 05

29 *eP·Z'* 16 36 03
eS·NE 42 27
L·NE 48
 $\Delta = 43^\circ$. $h = 50$ km. Central Alaska.

29 *eP·Z'* 22 45 03
eS·NE 52 38
L·N 23 00
 $\Delta = 54^\circ$. $h = 52$ km. Western Iran.

June

30 *eP·Z'* 05^h56^m47^s
L·NE 57
 Local shock.

July

2 *ePKP·Z'* 08 51 21
eSKS·NE 58 18
ePS·N 09 02 43
 $\Delta = 120^\circ$. $h = 50$ km. Santa Cruz Islands.

3 *ePKP·Z'* 18 33 21
 $\Delta = 150^\circ$. $h = 25$ km. South Pacific Cordillera.

3 *iPKP·Z'* 18 41 53
 $\Delta = 146^\circ$. $h = 25$ km. South Pacific Cordillera.

4 *eP·Z'* 08 01 47
 $\Delta = 17^\circ$. $h = 25$ km. North Atlantic Ocean.

5 *iP·Z'* 17 52 56
eS·NE 18 02 52
 $\Delta = 78^\circ$. $h = 23$ km. South of Honshu, Japan.

6 *iP·Z'* 02 23 57 D
ePS·NE 33 47
L·N 48
 $\Delta = 74^\circ$. $h = 33$ km. Arabian Sea.

6 *iP·Z'* 09 23 45 C
eS·NE 29 49
L·NE 37
 $\Delta = 40^\circ$. $h = 30$ km. Greece.

6 *eP·Z'* 16 01 58
 $\Delta = 40^\circ$. $h = 129$ km. Greece.

6 *iP·Z'ZNE* 23 14 57 C
i·Z'Z 15 17
ipP·NE 15 46
isP·Z'ZE 16 03
iPP·ZE 17 03
iS·NE 22 37
isS·N 23 58
iSS·N 26 01
i·N 28 07
L·NE 34
 $\Delta = 56^\circ$. $h = 203$ km. Hindu Kush region.

7 *iP·Z'Z* 06 22 33 C
eS·NE 30 32
L·NE 42
 $\Delta = 57^\circ$. $h = 60$ km. Rat Islands, Aleutian Islands.

7 *eP·Z'* 12 54 42
 $\Delta = 40^\circ$. $h = 33$ km. Ionian Sea.

9 *eP·Z'* 01 53 21
 Local shock.

Scoresbysund 1962

July

- 10 *eP·Z'* 10^h13^m40^s
 $\Delta = 41^\circ$. $h = 33$ km. Aegean Sea.
- 11 *L·NE* 01 32
- 11 *eP·Z'* 12 53 51 D
iPP·Z'N 57 43
eSKS·NE 13 04 28
ePS·N 06 17
L·NE 27
 $\Delta = 94^\circ$. $h = 25$ km. Panay, Philippine Islands.
- 13 *iP·Z'* 03 45 23 D
i·Z 45 34
eSKS·NE 55 55
eS·N 56 38
L·NE 04 22
 $\Delta = 96^\circ$. $h = 52$ km. Panay, Philippine Islands.
- 13 *iP·Z'* 22 28 40
 $\Delta = 53^\circ$. $h = 59$ km. Komandorsky Islands region.
- 14 *eP·Z'* 01 12 41
 $\Delta = 57^\circ$. $h = 72$ km. Rat Islands, Aleutian Islands.
- 14 *eP·Z'* 16 09 36
 $\Delta = 66^\circ$. $h = 40$ km. Tibet-India border region.
- 14 *eP·Z'* 20 48 03 D
 $\Delta = 60^\circ$. $h = 60$ km. Kurile Islands.
- 15 *iP·Z'ZN* 06 58 21 D
epP·Z' 58 47
isP·Z' 59 05
eS·NE 07 07 23
eScS·E 08 05
 $\Delta = 68^\circ$. $h = 103$ km. Honshu, Japan.
- 15 *eP·Z'* 15 23 47
 $\Delta = 69^\circ$. $h = 55$ km. Near east coast of Honshu, Japan.
- 15 *eP·Z'* 22 03 49
 $\Delta = 72^\circ$. $h = 33$ km. Arabian Sea.
- 16 *ePKP²·Z'* 02 25 39
 $\Delta = 159^\circ$. $h = 14$ km. West of Marquarie Island.
- 16 *eP·Z'* 07 11 14
 $\Delta = 39^\circ$. $h = 99$ km. Greece.
- 16 *iPKP·Z'* 09 44 30 D
 $\Delta = 122^\circ$. $h = 208$ km. New Hebrides Islands.
- 16 *iP·Z'ZNE* 13 02 39 C
ePP·NE 04 27
L·NE 16
 $\Delta = 43^\circ$. $h = 39$ km. Central Alaska.

July

- 17 *ePKP·Z'* 05^h50^m58^s
ePS·N 06 02 20
L·NE 31
 $\Delta = 120^\circ$. $h = 26$ km. Off coast of southern Chile.
- 17 *eP·Z'* 10 29 41
 Local shock.
- 17 *eP·Z'* 10 56 23
 Local shock.
- 17 *iP·Z'ZNE* 17 31 11 C
eS·NE 39 59
L·NE 52
 $\Delta = 66^\circ$. $h = 30$ km. Hokkaido, Japan region.
- 19 *iP·Z'* 22 16 45
 $\Delta = 69^\circ$. $h = 93$ km. Honshu, Japan.
- 22 *eP·Z'* 00 25 25
 $\Delta = 20^\circ$. $h = 33$ km. North of Franz Josef Land.
- 24 *iP·Z'* 16 36 38 C
 $\Delta = 96^\circ$. $h = 21$ km. Panay, Philippine Islands.
- 24 *eP·Z'* 21 19 15
ipP·Z' 19 41
eScS·NE 29 03
L·NE 38
 $\Delta = 69^\circ$. $h = 131$ km. Mexico-Guatemala border region.
- 25 *iP·Z'E* 04 48 08
ePPP·E 52 08
eS·N 56 33
ePS·E 56 43
eSS·E 05 00 45
L·NE 08
 $\Delta = 62^\circ$. $h = 33$ km. Caribbean Sea.
- 26 *iP·Z'* 04 33 36 C
 $\Delta = 63^\circ$. $h = 35$ km. Kurile Islands.
- 26 *iP·Z'ZE* 08 26 16 D
iPP·ZE 29 06
iPPP·ZE 30 54
iS·E 35 44
L·E 47
 $\Delta = 73^\circ$. $h = 33$ km. South of Panama.
- 28 *ePS·N* 00 35 56
L·NE 01 07
 $\Delta = 122^\circ$. $h = 40$ km. Tonga Islands.
- 28 *L·NE* 14 38
- 29 *iP·Z'* 03 49 27 C
 $\Delta = 82^\circ$. $h = 184$ km. Ryukyu Islands.

Scoresbysund 1962

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		August	
13	<i>eP·Z'</i> <i>eS·N</i> $\Delta = 78^\circ$. $h = 33$ km. Off coast of Central America.	21	<i>iP·Z'</i> <i>L·NE</i> $\Delta = 35^\circ$. $h = 36$ km. Southern Italy.
13	<i>eP·Z'</i> $\Delta = 44^\circ$. Crete.	21	<i>eP·Z'</i> <i>eS·NE</i> <i>L·NE</i> $\Delta = 35^\circ$. $h = 34$ km. Southern Italy.
14	<i>eP·Z'</i> Local shock.	21	<i>ePP·Z'</i> <i>L·NE</i> $\Delta = 117^\circ$. $h = 33$ km. Easter Island region.
15	<i>iP·Z'</i> $\Delta = 77^\circ$. $h = 155$ km. South of Honshu, Japan.	23	<i>eP·Z'</i> <i>eS·NE</i> <i>L·NE</i> $\Delta = 56^\circ$. $h = 33$ km. Near coast of northern California.
15	<i>eP·Z'</i> $\Delta = 55^\circ$. $h = 52$ km. Near east coast of Kamchatka.	25	<i>iPKP·Z'Z</i> <i>ipPKP·Z'</i> <i>iPKS·N</i> <i>e·E</i> $\Delta = 129^\circ$. $h = 561$ km. West of Tonga Islands.
15	<i>eP·Z'</i> $\Delta = 63^\circ$. $h = 37$ km. E. Russia - NE. China border region.	25	<i>iS·NE</i> <i>L·NE</i> $\Delta = 22^\circ$. Novaya Zemlya.
15	<i>eP·Z'</i> Local shock.	26	<i>eP·Z'</i> <i>L·NE</i> $\Delta = 75^\circ$. $h = 38$ km. Near south coast of Honshu, Japan.
17	<i>iP·Z'Z</i> <i>ePP·Z'</i> <i>eSKKS·N</i> <i>eS·N</i> <i>L·NE</i> $\Delta = 96^\circ$. $h = 33$ km. Panay, Philippine Islands.	27	<i>L·NE</i>
17	<i>eP·Z'</i> <i>epP·Z'</i> $\Delta = 84^\circ$. $h = 96$ km. Peru - Ecuador border region.	27	<i>iP·Z'</i> $\Delta = 71^\circ$. $h = 40$ km. Near east coast of Honshu, Japan.
18	<i>iP·Z'Z</i> <i>eS·NE</i> <i>eSS·N</i> <i>L·NE</i> $\Delta = 43^\circ$. $h = 32$ km. Central Alaska.	28	<i>eP·Z'</i> Local shock.
18	<i>iP·Z'Z</i> <i>eS·NE</i> <i>L·NE</i> $\Delta = 43^\circ$. $h = 32$. Central Alaska.	28	<i>eP·Z'</i> $\Delta = 75^\circ$. $h = 38$ km. Near south coast of Honshu, Japan.
19	<i>eP·Z'Z</i> <i>ePcP·Z'ZNE</i> <i>iPPP·N</i> <i>eS·NE</i> <i>L·NE</i> $\Delta = 53^\circ$. $h = 33$ km. Northern Sinkiang Province, China.	28	<i>iP·Z'Z</i> <i>isP·ZNE</i> <i>iPP·ZNE</i> <i>iS·NE</i> <i>iSS·NE</i> <i>L·ZNE</i> $\Delta = 40^\circ$. $h = 120$ km. Southern Greece.
20	<i>eP·Z'</i> Local shock.	29	<i>eP·Z'</i> <i>eS·E</i> <i>eSKS·N</i> <i>L·NE</i> $\Delta = 75^\circ$. $h = 33$ km. Near south coast of Honshu, Japan.
20	<i>L·E</i>		
20	<i>L·NE</i>		

Scoresbysund 1962

August

- 30 *eP·Z'* 13^h44^m30^s
eS·NE 51 52
L·NE 14 01
 $\Delta = 51^\circ$. $h = 37$ km. Utah.
- 30 *eP·Z'* 13 57 50
 Local shock.
- 30 *iPKP·Z'* 17 36 56 D
ePS·N 49 03
L·E 18 19
 $\Delta = 128^\circ$. $h = 33$ km. Tonga Islands.
- 31 *L·NE* 11 37
- 31 *eP·Z'* 16 35 50
 $\Delta = 57^\circ$. $h = 48$ km. Off east coast of Kamchatka.
- 31 *iP·Z'ZN* 17 12 32 C
e·Z 12 44
iPeS·Z' 17 23
eS·NE 20 29
L·NE 30
 $\Delta = 57^\circ$. $h = 32$ km. Adreanof Islands, Aleutian Islands.
- 31 *iP·Z'* 18 05 56
 $\Delta = 57^\circ$. $h = 43$ km. Adreanof Islands, Aleutian Islands.

September

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

September

- 4 *eP·Z'* 13^h39^m13^s
L·E 57
 $\Delta = 51^\circ$. $h = 53$ km. Iran.
- 4 *iP·Z'* 17 27 03
L·NE 45
 $\Delta = 55^\circ$. $h = 41$ km. Near coast of northern California.
- 4 *iP·Z'* 21 54 51
 $\Delta = 49^\circ$. $h = 39$ km. North Atlantic Ridge.
- 4 *iP·Z'* 22 17 08
 Local shock.
- 4 *eP·Z'* 23 07 35
eS·E 14 19
eSS·NE 17 49
L·NE 23
 $\Delta = 45^\circ$. $h = 33$ km. Turkey - USSR border region.
- 8 *eP·Z'* 10 22 58
 $\Delta = 22^\circ$. $h = 0$. Novaya Zemlya.
- 9 *iP·Z'* 01 47 59 C
 $\Delta = 96^\circ$. $h = 62$ km. Panay, Philippine Islands.
- 10 *iP·Z'* 09 44 33 D
 $\Delta = 44^\circ$. $h = 33$ km. Eastern Mediterranean Sea.
- 10 *iPKP·Z'Z* 16 01 56 D
e·Z'Z 04 10
ipPKP·Z'Z 04 22
iPKS·NE 05 22
eSS·N 20 42
 $\Delta = 129^\circ$. $h = 612$ km. West of Tonga Islands.
- 12 *iP·Z'Z* 21 06 39
eS·NE 14 33
iScS·E 16 31
L·NE 25
 $\Delta = 57^\circ$. $h = 56$ km. Hindu Kush region.
- 13 *eP·Z'* 14 45 48
 $\Delta = 66^\circ$. $h = 78$ km. Windward Islands.
- 15 *L·E* 08 14
- 15 *iP·Z'ZN* 23 01 01 C
iS·NE 09 24
iPS·N 09 42
iSS·E 13 27
L·NE 22
 $\Delta = 61^\circ$. $h = 33$ km. Kurile Islands region.
- 16 *iP·Z'* 16 49 59
i·Z' 50 02
 Local shock.
- 17 *iP·Z'* 04 31 00
 Local shock.

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September

- 17 *iPKP·Z'* 18^h13^m44^s D
epPKP·Z' 15 56
 $\Delta = 128^\circ$. $h = 626$ km. West of Tonga Islands.
- 18 *eP·Z'* 00 40 36
iS·NE 50 03
ePS·E 50 24
iScS·NE 50 42
L·NE 01 01
 $\Delta = 73^\circ$. $h = 33$ km. South of Panama.
- 19 *iP·Z'* 05 17 11 C
 $\Delta = 61^\circ$. $h = 466$ km. Sea of Okhotsk.
- 19 *L·NE* 11 11
- 22 *eP·Z'* 07 03 05
iS·NE 12 43
L·N 27
 $\Delta = 74^\circ$. $h = 33$ km. Burma.
- 22 *eP·Z'* 08 16 08
 $\Delta = 57^\circ$. $h = 71$ km. Hindu Kush region.
- 24 *iP·Z'* 14 46 12 D
 $\Delta = 66^\circ$. $h = 33$ km. Hokkaido, Japan region.
- 27 *L·E* 08 14

October

- 1 *iP·Z'* 10 03 45 C
 $\Delta = 62^\circ$. $h = 127$ km. Kurile Islands.
- 1 *iP·Z'* 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 *ePKP·Z'* 23 50 38
 $\Delta = 127^\circ$. $h = 42$ km. New Hebrides Islands.
- 8 *eP·Z'Z* 22 08 42 C
L·ZNE 33
 $\Delta = 82^\circ$. $h = 29$ km. Taiwan region.
- 13 *iP·Z'* 10 32 39 C
eS·NE 39 58
L·E 50
 $\Delta = 51^\circ$. $h = 33$ km. Western Iran.
- 14 *iP·Z'* 04 19 49 D
 Local shock.
- 14 *eP·Z'* 15 20 58
 $\Delta = 76^\circ$. $h = 33$ km. Kyushu, Japan.
- 15 *ePKP·Z'* 23 56 26 C
 $\Delta = 153^\circ$. $h = 33$ km. South Island, New Zealand.

October

- 16 *eP·Z'* 18^h12^m15^s
L·N 32
 $\Delta = 57^\circ$. $h = 27$ km. Adreanof Islands, Aleutian Islands.
- 17 *iP·Z'* 12 50 22
 $\Delta = 75^\circ$. $h = 33$ km. South of Honshu, Japan.
- 18 *iP·Z'* 08 51 11 C
isP·Z' 51 52
 $\Delta = 63^\circ$. $h = 140$ km. Kurile Islands.
- 18 *eP·Z'* 11 32 56
 $\Delta = 63^\circ$. $h = 128$ km. Kurile Islands.
- 21 *iP·Z'* 02 13 22 C
ipP·Z' 13 39
iPP·Z' 15 12
ipPP·Z' 15 31
 $\Delta = 44^\circ$. $h = 80$ km. Southern Alaska.
- 22 *eP·Z'* 15 33 40
 $\Delta = 60^\circ$. $h = 19$ km. Kurile Islands.
- 25 *eP·Z'* 09 48 13
ePP·Z' 52 36
 $\Delta = 103^\circ$. $h = 33$ km. Talaud Islands.
- 25 *ePKP²·Z'* 20 27 34 D
 $\Delta = 170^\circ$. $h = 33$ km. Balleny Islands region.
- 26 *ePKP·Z'* 07 39 28
 $\Delta = 127^\circ$. $h = 33$ km. New Hebrides Islands.
- 26 *eP·Z'* 11 34 31 C
 $\Delta = 46^\circ$. $h = 33$ km. Mediterranean Sea.
- 28 *eP·Z'* 23 03 57 D
epP·Z' 04 23
 $\Delta = 69^\circ$. $h = 97$ km. Near coast of Chiapas, Mexico.
- 29 *eP·Z'* 00 31 13 C
 $\Delta = 73^\circ$. $h = 42$ km. Panama.
- 30 *ePKP·Z'* 02 05 34
e·Z' 05 45
 $\Delta = 126^\circ$. $h = 33$ km. Southwest of Africa.
- 31 *eP·Z'* 11 44 11 C
 $\Delta = 75^\circ$. $h = 33$ km. South of Panama.
- November
- 1 *iP·Z'* 15 57 07
 Local shock.
- 1 *iP·Z'* 23 31 31 D
 $\Delta = 65^\circ$. $h = 131$ km. Kurile Islands.
- 2 *eP·Z'* 15 11 46
 $\Delta = 72^\circ$. $h = 67$ km. Near east coast of Honshu, Japan.

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November

- 3 *eP·Z'* 14^h24^m07^s
 $\Delta = 8^\circ$. $h = 37$ km. Norwegian Sea.
- 3 *eP·Z'* 15 39 07
 $\Delta = 8^\circ$. Norwegian Sea.
- 4 *ePKP·Z'* 23 12 26
L·E 53
 $\Delta = 120^\circ$. $h = 33$ km. Off coast of southern Chile.
- 5 *iP·Z'* 11 48 54 C
L·N 52
 $\Delta = 11^\circ$. $h = 32$ km. Norwegian Sea.
- 6 *eP·Z'* 00 19 51 C
 $\Delta = 58^\circ$. $h = 30$ km. Southern Iran.
- 6 *iP·Z'* 03 45 46
L·NE 04 03
 $\Delta = 51^\circ$. $h = 44$ km. Washington - Oregon border region.
- 6 *eP·Z'* 21 02 00
 $\Delta = 95^\circ$. $h = 51$ km. Panay, Phillipine Islands.
- 7 *eP·Z'* 00 19 09
e·Z' 19 23
 Local shock.
- 7 *iP·Z'* 13 03 57 D
 $\Delta = 31^\circ$. $h = 33$ km. Azores region.
- 7 *ePKP·Z'* 16 21 26
 $\Delta = 113^\circ$. $h = 182$ km. Flores Sea.
- 7 *iP·Z'* 22 36 22
 $\Delta = 57^\circ$. $h = 43$ km. Rat Islands, Aleutian Islands.
- 8 *L·NE* 01 24
- 8 *eP·Z'* 21 25 42
 $\Delta = 57^\circ$. $h = 33$ km. Rat Islands, Aleutian Islands.
- 9 *eP·Z'* 01 20 10 C
 $\Delta = 52^\circ$. $h = 44$ km. Western Iran.
- 9 *eP·Z'* 05 33 29
L·NE 34
 $\Delta = 6^\circ$. Norwegian Sea.
- 9 *iP·Z'* 09 33 00 C
 $\Delta = 73^\circ$. $h = 33$ km. Near east coast of Honshu, Japan.
- 9 *iP·Z'* 14 03 08 D
 $\Delta = 82^\circ$. $h = 452$ km. Bonin Islands region.
- 10 *iP·Z'ZN* 01 44 00 C
eS·E 52 45
L·NE 02 06
 $\Delta = 66^\circ$. $h = 33$ km. Kurile Islands.

November

- 11 *eP·Z'* 11^h40^m43^s D
 $\Delta = 50^\circ$. $h = 33$ km. East of Lake Baikal, U.S.S.R.
- 11 *eP·Z'* 15 26 12
 $\Delta = 65^\circ$. $h = 34$ km. Red Sea.
- 11 *iPKP·Z'* 16 28 46 D
L·NE 17 12
 $\Delta = 122^\circ$. $h = 77$ km. Santa Cruz Islands.
- 11 *eP·Z'* 16 38 43
e·Z' 42 29
- 11 *ePKP·Z'* 22 33 08 C
L·NE 23 12
 $\Delta = 120^\circ$. $h = 33$ km. Off coast of southern Chile.
- 12 *iP·Z'* 13 01 25 D
 $\Delta = 81^\circ$. $h = 40$ km. Ryukyu Islands.
- 14 *eP·Z'* 07 59 33
 $\Delta = 73^\circ$. $h = 61$ km. Near east coast of Honshu, Japan.
- 15 *iP·Z'Z* 23 38 02 C
eS·E 48 46
ePS·E 49 53
L·NE 00 08
 $\Delta = 88^\circ$. $h = 45$ km. Near coast of northern Peru.
- 16 *ePP·Z'* 07 38 44
ePS·E 48 42
L·NE 08 10
 $\Delta = 120^\circ$. $h = 33$ km. Easter Island Cordillera.
- 16 *iP·Z'* 21 22 40 C
ePP·Z' 25 45
iS·NE 33 16
ePS·E 34 21
L·NE 52
 $\Delta = 85^\circ$. $h = 33$ km. Andaman Islands region.
- 17 *eP·Z'* 11 18 31
 $\Delta = 71^\circ$. $h = 12$ km. Near coast of Guerrero, Mexico.
- 19 *eP·Z'* 21 54 07
 $\Delta = 53^\circ$. $h = 33$ km. Unimak Island region.
- 20 *eP·Z'* 07 42 06 C
 $\Delta = 54^\circ$. $h = 23$ km. Kamchatka.
- 23 *eP·Z'* 00 43 16
 $\Delta = 93^\circ$. $h = 33$ km. Near coast of Peru.
- 23 *ePKP·Z'* 23 23 47
eSKP·Z' 26 14
 $\Delta = 128^\circ$. $h = 690$ km. West of Tonga Islands.
- 24 *iP·Z'* 16 30 03
 $\Delta = 62^\circ$. $h = 33$ km. Central Mid-Atlantic Ridge.

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November

- 25 *eP·Z'* 17^h45^m38^s
 $\Delta = 69^\circ$. $h = 125$ km. Oaxaca, Mexico.
- 16 *iP·Z'* 05 39 11 D
 $\Delta = 56^\circ$. $h = 14$ km. Southern Sinkiang Province, China.
- 26 *iP·Z'* 13 39 27
 $\Delta = 66^\circ$. $h = 33$ km. Hokkaido, Japan region.
- 26 *ePKP·Z'* 16 17 58
 $\Delta = 132^\circ$. $h = 19$ km. Tonga Islands region.
- 27 *iP·Z'* 07 05 00 C
 $\Delta = 81^\circ$. $h = 148$ km. Taiwan region.
- 28 *eP·Z'* 06 05 39
 $\Delta = 85^\circ$. $h = 82$ km. Volcano Islands region.
- 28 *eP·Z'* 23 59 05
e·Z' 00 00 58
L·Z'E 01 44
 Near shock.
- 29 *ePKP·Z'* 19 25 43
e·N 41 03
e·N 51 04
L·ZNE 20 07
 $\Delta = 126^\circ$. $h = 33$ km. New Hebrides Islands.
- 30 *eP·Z'Z* 22 02 30
eS·NE 11 43
L·NE 23
 $\Delta = 70^\circ$. $h = 57$ km. Guerrero, Mexico.

December

- 1 *iP·Z'* 01 59 52 C
L·E 02 16
 $\Delta = 55^\circ$. $h = 38$ km. Fox Islands, Aleutian Islands.
- 1 *ePKP·Z'* 04 36 16
 $\Delta = 137^\circ$. $h = 52$ km. Kermadec Islands.
- 1 *ePKP·Z'* 21 20 45
 $\Delta = 125^\circ$. $h = 620$ km. West of Tonga Islands.
- 4 *eP·Z'* 10 20 45
 Local shock.
- 6 *eP·Z'* 02 25 26
 $\Delta = 78^\circ$. $h = 33$ km. South of Honshu, Japan.
- 6 *eP·Z'* 04 14 15
iPcP·Z' 14 58
 $\Delta = 60^\circ$. $h = 85$ km. Kurile Islands.
- 7 *eP·Z'* 09 46 44
 $\Delta = 65^\circ$. $h = 33$ km. Northern China.

December

- 7 *iP·Z'* 14^h15^m02^s C
ipP·Z' 16 38
iS·NE 24 27
iSKS·E 24 45
iSS·E 27 14
L·NE 40
 $\Delta = 79^\circ$. $h = 411$ km. South of Honshu, Japan.
- 8 *e·Z'* 18 37 39
i·Z' 37 47
- 8 *iP·Z'* 21 40 08 D
epP·Z' 42 16
esP·Z' 43 16
 $\Delta = 100^\circ$. $h = 620$ km. Salta Province, Argentina.
- 8 *eP·Z'* 23 04 53 C
 $\Delta = 58^\circ$. $h = 33$ km. Adreanof Islands, Aleutian Islands.
- 9 *eP·Z'* 13 51 28
 Local shock.
- 9 *eP·Z'* 14 36 03
i·Z' 36 56
 Near shock.
- 9 *eP·Z'* 21 28 08
 $\Delta = 69^\circ$. $h = 33$ km. Honshu, Japan.
- 12 *iP·Z'* 00 14 02
 $\Delta = 75^\circ$. $h = 407$ km. Near south coast of Honshu, Japan.
- 12 *ePKP·Z'* 14 15 44
iPKS·Z' 19 05
 $\Delta = 130^\circ$. $h = 33$ km. South Sandwich Islands region.
- 13 *iP·Z'* 04 02 01
iS·Z' 02 10
 Local shock.
- 13 *eP·Z'* 04 29 07
 $\Delta = 42^\circ$. $h = 47$ km. Central Alaska.
- 13 *iP·Z'* 06 28 00
iS·Z' 28 09
 Local shock.
- 13 *iP·Z'* 06 50 13
 Local shock.
- 13 *eP·Z'* 15 05 31
 $\Delta = 43^\circ$. $h = 69$ km. Southern Alaska.
- 14 *eP·Z'* 17 01 44
 $\Delta = 50^\circ$. $h = 30$ km. U.S.S.R. - Mongolia border region.
- 16 *eP·Z'* 13 32 31
 Local shock.

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December

- 17 *ePKP·Z'* 11^h17^m47^s
 $\Delta = 105^\circ$. $h = 393$ km. Celebes Sea.
- 18 *eP·Z'* 07 41 50
 Local shock.
- 18 *eP·Z'* 08 12 22
 Local shock.
- 18 *eP·Z'* 08 43 59
 Local shock.
- 18 *iP·Z'* 10 16 11
 Local shock.
- 19 *iP·Z'* 20 03 23 D
iS·Z' 03 31
 Local shock.
- 19 *iP·Z'* 23 38 22
 Local shock.
- 21 *eP·Z'* 06 37 19
 $\Delta = 55^\circ$. $h = 33$ km. Fox Islands, Aleutian Islands.
- 21 *iP·Z'Z* 08 52 19 D
eS·E 09 00 07
ePS·N 00 19
eScS·E 02 14
L·NE 13
 $\Delta = 55^\circ$. $h = 33$ km. Fox Islands, Aleutian Islands.
- 21 *eP·Z'* 08 59 35
 $\Delta = 55^\circ$. $h = 33$ km. Repetition.
- 21 *iP·Z'* 09 10 12
 $\Delta = 55^\circ$. $h = 33$ km. Repetition.
- 21 *iP·Z'Z* 09 19 32
 $\Delta = 55^\circ$. $h = 33$ km. Repetition.
- 21 *iP·Z'* 09 44 07 C
 $\Delta = 66^\circ$. $h = 27$ km. Hokkaido, Japan region.
- 22 *ePKP·Z'* 01 11 34
iPKS·Z' 14 56
 $\Delta = 131^\circ$. $h = 33$ km. Loyalty Islands region.
- 22 *eP·Z'* 15 30 00 C
eS·E 37 48
ePS·N 37 53
eSS·N 42 15
L·NE 46
 $\Delta = 56^\circ$. $h = 47$ km. Fox Islands, Aleutian Islands.

December

- 23 *eP·Z'* 10^h57^m43^s
 $\Delta = 55^\circ$. $h = 53$ km. Fox Islands, Aleutian Islands.
- 24 *iP·Z'* 11 16 53 D
L·NE 25
 $\Delta = 24^\circ$. $h = 0$ km. Novaya Zemlya.
- 26 *eP·Z'* 09 04 46
L·E 15
 $\Delta = 33^\circ$. $h = 19$ km. North Atlantic Ocean.
- 26 *iP·Z'ZN* 22 34 50
iS·NE 42 37
iPS·NE 42 47
L·ZNE 53
 $\Delta = 56^\circ$. $h = 33$ km. Komandorsky Islands region.
- 26 *eP·Z'* 23 36 07
 $\Delta = 67^\circ$. $h = 34$ km. Near coast of West Pakistan.
- 26 *eP·Z'* 23 55 49
 $\Delta = 56^\circ$. $h = 33$ km. Komandorsky Islands region.
- 27 *iP·Z'* 18 29 48 C
 $\Delta = 69^\circ$. $h = 36$ km. Near east coast of Honshu, Japan.
- 28 *iP·Z'* 20 00 59 D
 $\Delta = 66^\circ$. $h = 41$ km. Hokkaido, Japan region.
- 28 *iP·Z'* 21 51 57 D
 $\Delta = 87^\circ$. $h = 33$ km. South Atlantic Ridge.
- 28 *eP·Z'* 23 37 34
 $\Delta = 43^\circ$. $h = 82$ km. Crete.
- 29 *eP·Z'* 10 54 20
ePP·Z' 58 21
eSKS·NE 11 05 19
eS·NE 06 05
eSS·N 12 32
L·NE 29
 $\Delta = 97^\circ$. $h = 49$ km. Near coast of northern Chile.
- 29 *e·E* 15 28 14
L·N 53
- 31 *eP·Z'* 08 10 08
 $\Delta = 57^\circ$. $h = 53$ km. Off east coast of Kamchatka.

January 1967

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