

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

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

InstrumentsGalitzin-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 due to BCIS or USCGS. The periods given are periods of full oscillations. The amplitudes are single amplitudes of the ground in microns. C means compression and D dilatation. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.



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January		February	
3	<i>iP·Z'</i> 20 ^h 26 ^m 17 ^s C $\Delta = 37^\circ$. Tyrrenian Sea.	4	<i>ePKKP·Z'</i> 4 ^h 16 ^m 23 ^s <i>eSS·NE</i> 22.0 <i>L·NE</i> 41 $\Delta = 113^\circ$. New Ireland.
9	<i>iP·Z'</i> 7 33 26 C <i>ipP·Z'</i> 34 11 $\Delta = 57^\circ$. $h = 200$ km. Hindu Kush.	4	<i>eP·Z'</i> 17 01 33 <i>L·NE</i> 26 $\Delta = 70^\circ$. Japan.
11	<i>eP·Z'</i> 2 39 50 $\Delta = 80^\circ$. Ryukyu Islands.	8	<i>L·NE</i> 13 49
13	(<i>iP·Z</i> 15 53 38 in the time break. <i>ePP·Z</i> 57 20 <i>iSKS·NE</i> 16 04 04 (<i>iS·NE</i> 04 38 in the time break. <i>ePS·NE</i> 05 40 <i>L·NE</i> 24 $\Delta = 93^\circ$. $h = 100$ km. Peru.	10	<i>ePKP·Z'</i> 0 14 25 <i>ePKKP·Z'</i> 25 33 $\Delta = 110^\circ$. Celam Sea.
14	<i>eP·Z'</i> 10 37 19 $\Delta = 72^\circ$. Japan.	17	<i>ePKP·Z'</i> 12 57 55 <i>L·NE</i> 13 39 $\Delta = 118^\circ$. Easter Island.
15	<i>iP·Z'ZN</i> 9 43 26 C <i>i·ZE</i> 43 37 <i>e·Z'</i> 43 50 <i>i(S)·NE</i> 54 30 <i>i·N</i> 54 51 <i>L·NE</i> 10 17 $\Delta = 93^\circ$. $h = 100$ km. Peru.	18	<i>eP·Z'</i> 21 45 00 <i>L·E</i> 22 07 $\Delta = 57^\circ$. Kamchatka.
16	<i>iP·Z'</i> 20 57 10 C <i>ipP·Z'</i> 57 36 <i>ePP·Z'</i> 58 54 $\Delta = 42^\circ$. $h = 150$ km. Alaska.	18	<i>eP·Z'</i> 22 35 47 $\Delta = 56^\circ$. Aleutian Islands.
17	<i>eP·Z'</i> 3 10 58 D $\Delta = 93^\circ$. $h = 100$ km. Peru.	19	<i>iP·Z'</i> 10 46 19 <i>ipP·Z'</i> 47 06 <i>iS·E</i> 53 59 <i>isS·E</i> 55 11 $\Delta = 57^\circ$. $h = 200$ km. Hindu Kush.
23	<i>L·NE</i> 5 35	23	<i>iP·Z'</i> 7 41 58 $\Delta = 39^\circ$. Greece.
23	<i>L·NE</i> 8 28	23	<i>iPKP·Z'</i> 11 49 14 C $\Delta = 126^\circ$. $h = 500$ km. Fiji Islands.
25	<i>eP·Z'</i> 3 29 54 $\Delta = 87^\circ$. South Atlantic Ocean.	24	<i>iPKP·Z'</i> 21 55 51 D <i>ePS·N</i> 22 06 53 <i>L·NE</i> 37 $\Delta = 117^\circ$. Solomon Islands.
26	<i>eP·Z'</i> 10 00 17 $\Delta = 43^\circ$. Turkey.	26	<i>iP·Z'</i> 23 39 17 D $\Delta = 57^\circ$. Aleutian Islands.
26	<i>eP·Z'</i> 13 13 36 $\Delta = 42^\circ$. Turkey.	27	<i>eP·Z'</i> 8 19 55 Repetition.
31	<i>eP·Z'</i> 5 20 03 $\Delta = 75^\circ$. Japan.	28	<i>e·Z'</i> 0 15 40 <i>e·Z'</i> 15 50
February		28	<i>eP·Z'</i> 7 29 15 $\Delta = 11^\circ$. Off Northern Norway.
1	<i>eP·Z'</i> 12 07 43 $\Delta = 43^\circ$. Crete.	29	<i>e·Z'</i> 5 30 33
3	<i>iPKP·Z'</i> 2 40 35 $\Delta = 145^\circ$. New Zealand.		

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March		March	
2	<i>eP·Z'</i> 0 ^h 21 ^m 32 ^s $\Delta = 69^\circ$. Mexico.	12	<i>L·E</i> 12.7 $\Delta = 36^\circ$. Macedonia.
2	<i>e·Z'</i> 1 40 15 <i>i·Z'</i> 41 05 East Greenland?	12	<i>e(P)·Z'</i> 20 ^h 49 ^m 44 ^s <i>ePP·Z'N</i> 50 34 <i>ePS·Z'NE</i> 21 00 09 <i>L·NE</i> 25 $\Delta = 115^\circ$. New Britain.
2	<i>eP·Z'</i> 22 00 49 <i>eS·E</i> 04 28 <i>L·NE</i> 05,5 $\Delta = 19^\circ$. Mid Atlantic Ridge.	15	<i>eP·Z'</i> 9 30 49 $\Delta = 57^\circ$. Aleutian Islands.
4	<i>eP·Z'</i> 2 25 53 $\Delta = 58^\circ$. Aleutian Islands.	17	<i>eP·Z'</i> 23 50 01 $\Delta = 43^\circ$. Crete.
4	<i>iP·Z'</i> 4 04 48 C $\Delta = 76^\circ$. $h = 100$ km. Japan.	20	<i>eP·Z'</i> 13 48 04 $\Delta = 69^\circ$. Japan.
4	<i>eP·Z'</i> 16 26 59 <i>e(S)·NE</i> 25.4 $\Delta = 7^\circ$. Jan Mayen.	20	<i>eP·Z'</i> 17 18 40 <i>iI·Z'ZN</i> 18 45 <i>ePcP·Z</i> 19 12 <i>iS·NE</i> 27 48 <i>eSS·NE</i> 32 17 <i>L·NE</i> 39.4 <i>M·NE</i> 50 20 ^s . $N: 70 \mu$, $E: 150 \mu$. $\Delta = 69^\circ$. $M = 7\frac{1}{2}$. Japan.
5	<i>ePP·Z'</i> 14 07 16 <i>ePKKP·Z'</i> 19 26 <i>eS·NE</i> 15.4 <i>eSS·NE</i> 22.7 <i>L·NE</i> 38 $\Delta = 106^\circ$. Halmahera.	20	<i>eP·Z'</i> 23 38 09 $\Delta = 57^\circ$. Mid Atlantic Ridge.
6	<i>L·NE</i> 3 24	21	<i>iP·Z'</i> 0 46 03 C <i>eS·E</i> 55 11 <i>L·NE</i> 1 12 $\Delta = 70^\circ$. Japan.
6	<i>L·NE</i> 4 45	21	<i>iP·Z'</i> 9 29 33 D $\Delta = 70^\circ$. Japan.
7	<i>eP·Z'</i> 5 27 20 $\Delta = 105^\circ$. Celebes.	22	<i>L·NE</i> 13 55
7	<i>eP·Z'</i> 16 00 22 $\Delta = 83^\circ$. Ryukyu Islands.	23	<i>eP·Z'</i> 0 34 37 in the time break. <i>eI·Z'Z</i> 34 43 <i>iS·E</i> 43 20 <i>iPS·E</i> 43 35 <i>L·NE</i> 55 $\Delta = 70^\circ$. Japan.
8	<i>iPKP·Z'Z</i> 16 52 15 D <i>ePP·Z'Z</i> 54 07 <i>i(PKS)·N</i> 55 34 <i>iPKKP·Z'</i> 17 01 50 D <i>i(PSP)·Z'Z</i> 05 47 C $\Delta = 126^\circ$. $h = 250$ km. New Hebrides Islands.	23	<i>iP·Z'</i> 1 18 28 C $\Delta = 70^\circ$. Japan.
10	<i>iP·Z'</i> 0 07 30 $\Delta = 93^\circ$. $h = 150$ km. Peru.	23	<i>i·Z'</i> 1 50 55 D
10	<i>ePKP·Z'</i> 14 03 22 $\Delta = 122^\circ$. Samoa Islands.	23	<i>eP·Z'</i> 22 33 52 <i>eS·E</i> 43 04 <i>L·NE</i> 58 $\Delta = 70^\circ$. Japan.
10	<i>iP·Z'</i> 14 42 59 C $\Delta = 62^\circ$. $h = 100$ km. Kurile Islands.	23	<i>e·Z'</i> 23 46 25
12	<i>eP·Z'</i> 12 01 04 <i>ePP·E</i> 02 36 <i>eS·NE</i> 06 45 <i>eSS·N</i> 08.8		

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March	
24 <i>iP·Z'</i>	6 ^h 04 ^m 57 ^s D $\Delta = 63^\circ$. Kurile Islands.
24 <i>e·Z'</i>	11 32 25
27 <i>ePKP·Z'</i>	4 07 30
<i>iPP·Z'</i>	09 03
$\Delta = 123^\circ$. New Hebrides Islands.	
27 <i>e·Z'</i>	5 30 08
27 <i>ePKP·Z'</i>	9 16 53
<i>iPP·Z'</i>	18 28
$\Delta = 123^\circ$. New Hebrides Islands.	
27 <i>eP·Z'</i>	20 26 54
<i>ePP·Z'</i>	29 24
<i>L·NE</i>	50
$\Delta = 70^\circ$. Mexico.	
27 <i>iPKP·Z'</i>	23 47 42 C
<i>ePP·Z'</i>	51 08
$\Delta = 147^\circ$. $h = 250$ km. New Zealand.	
28 <i>eP·Z'</i>	0 25 11
<i>eS·N</i>	34 44
<i>eSKS·E</i>	35 14
<i>L·NE</i>	48
$\Delta = 73^\circ$. Panama.	
29 <i>iPKP·Z'</i>	6 50 02 C
<i>i·Z'</i>	50 07
<i>ePP·Z'Z</i>	51 55
<i>ePS·N</i>	7 02 05
<i>eSS·E</i>	09 05
<i>L·NE</i>	33
$\Delta = 127^\circ$. New Hebrides Islands.	
29 <i>L·NE</i>	8 21
30 <i>ePP·Z'Z</i>	11 10 23
$\Delta = 123^\circ$. New Hebrides Islands.	
30 <i>iP·Z'ZNE</i>	12 59 32 C
<i>iS·Z'ZNE</i>	59 58
$\Delta = 2^\circ$. Denmark Strait.	
30 <i>e(P)·Z'</i>	13 39 28
Aftershock?	
30 <i>e(P)·Z'</i>	15 00 24
<i>e(S)·Z'</i>	00 45
Aftershock?	
30 <i>e(P)·Z'</i>	15 38 40
Aftershock?	
30 <i>eP·Z'NE</i>	17 23 33

March	
30 <i>eS·NE</i>	23 ^m 59 ^s Aftershock.
31 <i>eP·Z'</i>	20 ^h 07 ^m 01 ^s
<i>eS·N</i>	15 41
<i>L·NE</i>	30
$\Delta = 65^\circ$. Gulf of California.	
April	
1 <i>L·NE</i>	14 36.2
2 <i>eP·Z'</i>	22 45 06
$\Delta = 52^\circ$. Iran.	
2 <i>eP·Z'</i>	23 42 18
Repetition.	
3 <i>e(P)·Z'</i>	8 04 30
<i>e·Z'</i>	04 42
Iceland?	
5 <i>ePKP·Z'</i>	12 55 29
<i>ePKS·Z'</i>	58 55
$\Delta = 131^\circ$. Sandwich Group.	
5 <i>eP·Z'</i>	17 27 38
$\Delta = 9^\circ$. North Atlantic Ocean.	
7 <i>ePKP·Z'</i>	14 05 45
<i>eSKP·Z'</i>	08 18
$\Delta = 131^\circ$. $h = 500$ km. Fiji Islands.	
7 <i>e·Z'</i>	14 40 35
8 <i>iPKP·Z'</i>	0 14 43
<i>epPKP·Z'</i>	15 36
<i>ePP·Z'</i>	16 45
$\Delta = 128^\circ$. 200 km. Tonga Islands.	
10 <i>iP·Z'</i>	20 35 42 C
$\Delta = 55^\circ$. Aleutian Islands.	
13 <i>iP·Z'</i>	12 48 46 D
$\Delta = 69^\circ$. Mexico.	
15 <i>L·NE</i>	4 22
15 <i>eP·Z'</i>	11 49 52
$\Delta = 68^\circ$. $h = 150$ km. Japan.	
15 <i>ePKP·Z'</i>	22 24 07
$\Delta = 123^\circ$. New Hebrides Islands.	
18 <i>iP·Z'</i>	8 18 37 D
$\Delta = 80^\circ$. $h = 450$ km. Bonin Islands.	
19 <i>e·Z'</i>	18 38 36
<i>e·Z'</i>	38 48

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April	
21 <i>L·E</i>	3 ^h 07 ^m
23 <i>e·Z'</i>	20 ^h 10 ^m 42 ^s
24 <i>eP·Z'</i>	0 08 08
$\Delta = 57^\circ$. Aleutian Islands.	
24 <i>eP·Z'</i>	3 35 53
<i>(i)PKP·Z'</i>	39 52 in the time break.
$\Delta = 110^\circ$. $h = 600$ km. Java Sea.	
24 <i>iP·Z'Z</i>	12 24 36
<i>eS·N</i>	32.0
<i>L·NE</i>	46
$\Delta = 60^\circ$. Iran.	
25 <i>eP·Z'</i>	15 02 47
$\Delta = 49^\circ$. Kodiak Island.	
28 <i>ePKP·Z'</i>	2 29 24
<i>ePKS·Z'</i>	32 43
$\Delta = 130^\circ$. Sandwich Group.	
28 <i>eP·Z'</i>	16 41 34
$\Delta = 44^\circ$. Greece.	
29 <i>iPKP·Z'</i>	2 34 43
<i>ePKS·Z'</i>	38 03
$\Delta = 130^\circ$. Sandwich Group.	
29 <i>ePP·Z'</i>	19 50 35
<i>L·NE</i>	20 32
$\Delta = 106^\circ$. Celebes.	
30 <i>ePP·Z'</i>	4 20 10
$\Delta = 106^\circ$. Celebes.	
May	
1 <i>i·Z'</i>	17 44 59
2 <i>eP·Z'</i>	8 54 12
$\Delta = 74^\circ$. Mid Atlantic Ridge.	
2 <i>ePP·Z'</i>	12 28 39
$\Delta = 106^\circ$. Celebes.	
3 <i>eP·Z'</i>	7 09 04
$\Delta = 58^\circ$. Iran.	
3 <i>iP·Z'</i>	22 34 23
$\Delta = 77^\circ$. $h = 150$ km. Japan.	
5 <i>iP·Z'</i>	11 35 50 C
$\Delta = 58^\circ$. Kamchatka.	
6 <i>iP·Z'</i>	18 57 06 C
$\Delta = 56^\circ$. Kamchatka.	

May	
8 <i>iP·Z'</i>	14 ^h 39 ^m 50 ^s D
$\Delta = 64^\circ$. Kurile Islands.	
9 <i>iP·Z'</i>	0 23 08 C
$\Delta = 77^\circ$. Ryukyu Islands.	
9 <i>eP·Z'</i>	16 38 08
$\Delta = 65^\circ$. Atlantic Ocean.	
10 <i>iP·Z'</i>	23 29 28 D
<i>ipP·Z'</i>	29 49
$\Delta = 74^\circ$. $h = 100$ km. Japan.	
12 <i>(e)P·Z'Z</i>	22 44 03 in the time break.
<i>iS·NE</i>	53 33
<i>L·NE</i>	23.1
$\Delta = 73^\circ$. Panama.	
13 <i>iP·Z'ZNE</i>	16 16 21
<i>i·Z'ZNE</i>	16 37
<i>iS·NE</i>	23 40
<i>eScS·E</i>	26 15
<i>L·NE</i>	32
$\Delta = 52^\circ$. Alaska Peninsula.	
14 <i>eP·Z'</i>	22 29 41 C
14 <i>ePn·Z'</i>	23 58 09
<i>iP·Z'</i>	58 21 C
<i>eSn·Z'</i>	59 18
$\Delta = 6^\circ$. Iceland.	
15 <i>eP·Z'</i>	13 42 46
$\Delta = 82^\circ$. Formosa.	
15 <i>eP·Z'</i>	21 46 24
$\Delta = 53^\circ$. Alaska Peninsula.	
17 <i>iP·Z'</i>	9 22 10 D
<i>L·NE</i>	24
$\Delta = 11^\circ$. Svalbard.	
18 <i>(i)P·Z'Z</i>	6 47 05 in the time break.
<i>i·Z'Z</i>	47 22 C
<i>eS·NE</i>	57 01
<i>L·NE</i>	7 14
$\Delta = 79^\circ$. Ryukyu Islands.	
18 <i>eP·Z'</i>	8 51 07
$\Delta = 59^\circ$. Persian Gulf.	
19 <i>iP·Z'</i>	2 16 35
<i>epP·Z'</i>	17 11
<i>eS·NE</i>	24 28
$\Delta = 58^\circ$. $h = 200$ km. Hindu Kush.	
19 <i>ePP·ZE</i>	10 30.8
<i>e(PS)·E</i>	40.2

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May	
19	<i>L</i> · <i>NE</i> 11 ^h 2 $\Delta = 105^\circ$. Indian Ocean.
21	<i>eP</i> · <i>Z'</i> 6 ^h 48 ^m 48 ^s $\Delta = 70^\circ$. Greece.
21	<i>ePP</i> · <i>ZNE</i> 10 22 26 <i>eSKKS</i> · <i>E</i> 29 31 <i>e</i> · <i>NE</i> 30 16 <i>ePS</i> !· <i>NE</i> 32 06 <i>iSS</i> !· <i>NE</i> 38 16 <i>M</i> · <i>NE</i> 11 07 20 ^s : <i>N</i> : 180 μ , <i>E</i> : 135 μ . $\Delta = 114^\circ$. <i>M</i> = 8. Chile.
22	<i>ePP</i> · <i>ZNE</i> 10 50 11 <i>ePS</i> · <i>NE</i> 59 59 <i>L</i> · <i>NE</i> 11 28 $\Delta = 114^\circ$. Chile.
22	<i>ePP</i> · <i>ZNE</i> 10 52 19 <i>ePPP</i> · <i>E</i> 54 52 <i>iPS</i> !· <i>NE</i> 11 02 12 <i>iSS</i> !· <i>NE</i> 08 17 <i>eSSS</i> · <i>NE</i> 12 17 $\Delta = 114^\circ$. Chile.
22	<i>eP</i> · <i>Z'ZE</i> 19 10 45 <i>ePKP</i> · <i>Z'</i> 14 34 <i>ePP</i> · <i>Z'ZNE</i> 15 32 <i>iPS</i> · <i>NE</i> 25 19 <i>eSS</i> · <i>NE</i> 31 07 $\Delta = 114^\circ$. Chile.
22	<i>ePKP</i> · <i>Z'</i> 19 29 19 <i>ePP</i> · <i>Z'</i> 30 04 $\Delta = 114^\circ$. Chile.
22	<i>iPP</i> · <i>Z'</i> 19 30 49 The main shock. Trace partly disappeared. Mingled with previous shocks. $\Delta = 114^\circ$. Chile. Hereafter several trains of surfacewaves.
23	<i>eP</i> · <i>Z'</i> 6 47 13 <i>e(S)</i> · <i>Z'</i> 48 00 <i>eL</i> · <i>NE</i> 48 22 $\Delta = 4^\circ$. SW of the station.
24	<i>ePKP</i> · <i>Z</i> 15 06 44 <i>ePKS</i> · <i>NE</i> 10 34 <i>L</i> · <i>NE</i> 59 $\Delta = 153^\circ$. New Zealand.
25	<i>ePKP</i> · <i>Z'Z</i> 8 53 36 <i>ePP</i> · <i>ZE</i> 55 09 <i>ePS</i> · <i>N</i> 9 05 16 <i>L</i> · <i>NE</i> 30 $\Delta = 122^\circ$. Chile.

May	
25	<i>iP</i> · <i>Z'</i> 19 ^h 48 ^m 48 ^s <i>i</i> · <i>Z'</i> 48 52 $\Delta = 4^\circ$. North of Iceland.
26	<i>eP</i> · <i>ZNE</i> 5 17 25 <i>ePP</i> · <i>NE</i> 18 52 <i>eS</i> · <i>NE</i> 23 18 <i>eSS</i> · <i>N</i> 26 05 <i>L</i> · <i>NE</i> 30 $\Delta = 38^\circ$. Greece.
28	<i>e</i> · <i>Z'</i> 16 22 48 Surface waves from near shock.
29	<i>ePS</i> · <i>NE</i> 8 08 40 <i>eSS</i> · <i>NE</i> 14.8 <i>L</i> · <i>NE</i> 34 $\Delta = 114^\circ$. Chile.
31	<i>eP</i> · <i>NE</i> 11 12 18 No Z-record. <i>eS</i> · <i>NE</i> 20 10 <i>eScS</i> · <i>NE</i> 21 58 <i>L</i> · <i>NE</i> 29 $\Delta = 57^\circ$. Lesser Antilles.
June	
2	<i>ePS</i> · <i>NE</i> 6 25 25 <i>eSKKS</i> · <i>NE</i> 28 25 <i>L</i> · <i>NE</i> 7 05 $\Delta = 123^\circ$. Chile.
2	<i>ePS</i> · <i>NE</i> 8 16 45 <i>eSS</i> · <i>NE</i> 23.1 <i>L</i> · <i>NE</i> 42 $\Delta = 115^\circ$. New Britain.
3	<i>eS</i> · <i>NE</i> 16 37 46 $\Delta = 67^\circ$. Japan.
4	<i>L</i> · <i>NE</i> 3 00
6	<i>iP</i> · <i>ZNE</i> 1 27 32 D <i>iS</i> · <i>N</i> 35 26 <i>eSS</i> · <i>E</i> 39.3 <i>L</i> · <i>NE</i> 46 $\Delta = 57^\circ$. California.
6	<i>ePKP</i> · <i>Z</i> 6 14 34 <i>e</i> · <i>NE</i> 15 48 <i>ePP</i> · <i>ZNE</i> 16 12 <i>eSKS</i> · <i>NE</i> 21 42 <i>L</i> · <i>NE</i> 56 <i>M</i> · <i>NE</i> 7 03 20 ^s : <i>N</i> : 35 μ , <i>E</i> : 25 μ . $\Delta = 122^\circ$. <i>M</i> = 7 ¹ / ₄ . Chile.
7	<i>iP</i> · <i>ZN</i> 13 07 02 C <i>iS</i> · <i>N</i> 14 45 $\Delta = 56^\circ$. Kamchatka.

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June	
8	<i>eP</i> · <i>ZN</i> 16 ^h 26 ^m 53 ^s <i>ePP</i> · <i>ZN</i> 28 20 <i>iS</i> · <i>E</i> 32 37 <i>SS</i> !· <i>E</i> 35.3 <i>L</i> · <i>NE</i> 36.2 $\Delta = 37^\circ$. Atlantic Ocean.
9	<i>ePKS</i> · <i>N</i> 11 46 21 <i>ePS</i> · <i>N</i> 55.5 <i>eSS</i> · <i>N</i> 12 02.9 <i>L</i> · <i>NE</i> 28 $\Delta = 127^\circ$. New Hebrides Islands.
9	<i>eP</i> · <i>Z'Z</i> 17 54 19 <i>eS</i> · <i>NE</i> 59 35 <i>L</i> · <i>N</i> 18 03 $\Delta = 33^\circ$. Azores.
10	<i>eSKKS</i> · <i>N</i> 21 39.4 <i>ePS</i> · <i>NE</i> 42 35 <i>L</i> · <i>NE</i> 22 13 $\Delta = 123^\circ$. Samoa Islands.
11	<i>iP</i> · <i>Z'</i> 0 48 00 C <i>iSKS</i> · <i>NE</i> 58 00 $\Delta = 97^\circ$. <i>h</i> = 300 km. Bolivia.
11	<i>ePKP</i> · <i>Z'Z</i> 15 32 59 <i>ePP</i> · <i>NE</i> 34 21 <i>ePS</i> · <i>NE</i> 44 07 <i>L</i> · <i>NE</i> 16 09 $\Delta = 118^\circ$. New Guinea.
11	<i>eP</i> · <i>Z'</i> 16 56 38 <i>ePS</i> · <i>N</i> 17 07 41 <i>L</i> · <i>NE</i> 32 Repetition.
12	<i>iPP</i> · <i>Z'</i> 4 17 23 C $\Delta = 131^\circ$. <i>h</i> = 600 km. Fiji Islands.
13	<i>L</i> · <i>NE</i> 6 51
15	<i>eP</i> · <i>Z'Z</i> 15 47 57 <i>eS</i> · <i>NE</i> 57 01 <i>L</i> · <i>NE</i> 16 11 $\Delta = 69^\circ$. Japan.
16	<i>eP</i> · <i>Z</i> 16 45 22 <i>L</i> · <i>N</i> 17 01 $\Delta = 55^\circ$. Aleutian Islands.
19	<i>e(P)</i> · <i>Z'</i> 11 57 52 <i>e(L)</i> · <i>Z'ZN</i> 12 00.8

June	
19	<i>iP</i> · <i>Z'</i> 17 ^h 29 ^m 45 ^s D $\Delta = 80^\circ$. Bonin Islands.
20	<i>ePKP</i> · <i>Z'</i> 2 19 56 <i>ePP</i> · <i>Z'ZN</i> 20 47 <i>ePS</i> · <i>N</i> 30 31 <i>eSS</i> · <i>N</i> 36.4 <i>L</i> · <i>N</i> 3.0 $\Delta = 115^\circ$. Chile.
20	<i>ePKP</i> · <i>Z'</i> 13 18 30 <i>ePP</i> · <i>Z'ZNE</i> 19 24 <i>ePS</i> · <i>NE</i> 29 10 <i>eSS</i> · <i>N</i> 35.2 <i>L</i> · <i>E</i> 54 $\Delta = 116^\circ$. Chile.
21	<i>e</i> · <i>Z'</i> 8 07.2
21	<i>L</i> · <i>NE</i> 9 25
22	<i>eP</i> · <i>Z'ZNE</i> 9 46 01 C <i>L</i> · <i>ZNE</i> 46.5 $\Delta = 3^\circ$. SE of the station.
22	<i>eP</i> · <i>Z'</i> 10 22 26 <i>L</i> · <i>NE</i> 22.7 $\Delta = 3^\circ$. SE of the station.
22	<i>eP</i> · <i>Z'ZNE</i> 13 59 15 C <i>L</i> · <i>ZNE</i> 14 00.0 $\Delta = 3^\circ$. SE of the station.
22	<i>iP</i> · <i>Z'</i> 16 23 49 C $\Delta = 76^\circ$. Arabian Sea.
23	<i>eP</i> · <i>Z'</i> 23 38 32 in the time break. <i>ePcP</i> · <i>Z'</i> 39 30 $\Delta = 56^\circ$. Aleutian Islands.
25	<i>L</i> · <i>E</i> 15 48
29	<i>L</i> · <i>NE</i> 2 58
29	<i>L</i> · <i>NE</i> 5 55
29	<i>eP</i> · <i>Z</i> 10 28 14 <i>e</i> · <i>Z</i> 28 23 <i>eS</i> · <i>NE</i> 32 33 <i>L</i> · <i>N</i> 35.4 $\Delta = 25^\circ$. Atlantic Ocean.
29	<i>L</i> · <i>NE</i> 17 33
March 1962.	

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Bulletin of the seismological station

SCORESBYSUND

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

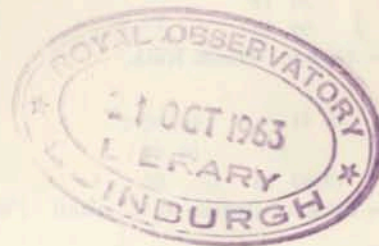
Lithologic foundation: gneiss

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 due to BCIS or USCGS. C means compression and D dilatation.



Scoresbysund 1960

July

1	<i>eP·Z'</i>	8 ^h 08 ^m 25 ^s	
	<i>i·Z'</i>	08 30	
	<i>ePPP·N</i>	11 54	
	<i>eS·NE</i>	16 00	
	<i>eSS·N</i>	19.8	
	<i>L·NE</i>	26	
	$\Delta = 54^\circ$. Aleutian Islands.		
2	<i>ePKP·Z'</i>	12 14 44	C
	<i>ePP·Z</i>	16 47	
	<i>e·E</i>	21 16	
	<i>eSS·E</i>	33.6	
	$\Delta = 126^\circ$. Sandwich Group.		
3	<i>iP·Z</i>	20 30 43	D
	<i>e·Z</i>	34 31	
	<i>ePS·Z</i>	38 53	
	<i>L·Z</i>	50 ^m	
	Z record only.		
	$\Delta = 58^\circ$. Aleutian Islands.		
3	<i>eP·Z'Z</i>	23 02 23	
	<i>L·NE</i>	22	
	$\Delta = 58^\circ$. Aleutian Islands.		
4	<i>eP·Z'Z</i>	4 37 16	
	<i>ePP·E</i>	38 59	
	<i>ePPP·E</i>	39 41	
	<i>eS·NE</i>	44 19	
	<i>eSS·NE</i>	47 45	
	<i>L·NE</i>	51	
	<i>M·NE</i>	56	
	$\Delta = 49^\circ$. Queen Charlotte Islands.		
4	<i>e·NE</i>	9 10.8	
	<i>L·NE</i>	18	
4	<i>eP·Z'Z</i>	13 18 54	
	<i>eS·N</i>	25 51	
	<i>eS·E</i>	25 57	
	<i>eSS·NE</i>	29 23	
	<i>L·ZNE</i>	34	
	$\Delta = 48^\circ$. Queen Charlotte Islands.		
6	<i>iP·Z'ZE</i>	5 26 15	C
	<i>epP·Z'</i>	27 05	
	<i>esP·Z'</i>	27 25	
	<i>eS·NE</i>	33 59	
	<i>esS·N</i>	35 19	
	<i>e·N</i>	39 25	
	$\Delta = 56^\circ$. $h = 220$ km. Hindu Kush.		
8	<i>L·NE</i>	10 41	
8	<i>iP·Z'Z</i>	13 03 16	C
	$\Delta = 77^\circ$. $h = 100$ km. Japan.		

July

9	<i>eP·Z'</i>	0 ^h 54 ^m 46 ^s	
	<i>eS·N</i>	1 05 16	
	<i>e·N</i>	06 ^m 2	
	<i>L·NE</i>	27	
	$\Delta = 82^\circ$. Ryukyn Islands.		
10	<i>eP·Z'ZE</i>	0 19 07	
	<i>ePP·Z'ZNE</i>	23 08	
	<i>ePPP·E</i>	25 10	
	<i>e·E</i>	26 58	
	<i>eSKS·NE</i>	29 43	
	<i>eSKKS·E</i>	29 59	
	<i>eS·N</i>	30 38	
	<i>e·NE</i>	30 52	
	<i>eSS·NE</i>	37 46	
	<i>L·NE</i>	55	
	$\Delta = 98^\circ$. $h = 150$ km. Sumatra.		
10	<i>L·ZNE</i>	23 34	
13	<i>iP·Z'</i>	2 41 15	
	$\Delta = 66^\circ$. Japan.		
13	<i>L·NE</i>	6 43	
13	<i>ePKP·Z'</i>	8 15 09	
	<i>e·Z'</i>	15 19	
	<i>ePP·N</i>	17.1	
	<i>eSKKS·N</i>	24.2	
	<i>ePS·N</i>	27 09	
	<i>eSS·NE</i>	34 24	
	<i>L·NE</i>	55	
	$\Delta = 125^\circ$. Bouvet Island.		
13	<i>iP·Z'</i>	13 08 22	
	<i>ePP·ZNE</i>	09 56	
	<i>eSS·N</i>	17 09	
	<i>L·NE</i>	23	
	$\Delta = 38^\circ$. Greece.		
13	<i>eP·Z'</i>	16 35 17	
	$\Delta = 68^\circ$. Mexico.		
14	<i>eP·Z'</i>	10 40 58	
	<i>ePP·N</i>	45 15	
	<i>eSKS·NE</i>	51 35	
	<i>eSKKS·N</i>	52 07	
	<i>eS·E</i>	52 57	
	<i>L·NE</i>	11 20	
	$\Delta = 102^\circ$. $h = 100$ km. Molucca Passage.		
14	<i>iP·Z'</i>	18 51 15	
	$\Delta = 75^\circ$. Ethiopia.		
15	<i>L·NE</i>	23 51	

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July

16	<i>L·NE</i>	21 ^h 40 ^m	
17	<i>L·NE</i>	5 43	
18	<i>ePP·ZNE</i>	2 02 56	
	<i>eSKKS·N</i>	10 12	
	<i>ePS·N</i>	13 01	
	<i>ePPS·NE</i>	14 04	
	<i>L·NE</i>	38	
	$\Delta = 113^\circ$. $h = 200$ km. New Britain.		
20	<i>eP·Z'ZN</i>	9 41 00	C
	<i>i·Z'ZE</i>	41 12	
	<i>eS·N</i>	49 13	
	<i>L·NE</i>	10 02	
	$\Delta = 60^\circ$. Kurile Islands.		
20	<i>ePKP·Z'</i>	21 18 18	C
	<i>ePP·Z</i>	20 28	
	<i>ePKS·NE</i>	21 39	
	<i>ePPP·NE</i>	23 06	
	<i>ePPS·N</i>	32 14	
	<i>L·NE</i>	22 02	
	$\Delta = 130^\circ$. $h = 200$ km. New Hebrides Islands.		
22	<i>eP·Z'ZNE</i>	6 39 42	
	<i>eS·E</i>	43 22	
	<i>L·NE</i>	44	
	$\Delta = 20^\circ$. North Atlantic Ocean.		
23	<i>L·ZNE</i>	17 49	
24	<i>eS·NE</i>	10 05 54	
	<i>ePS·N</i>	06 16	
	<i>eSSS·E</i>	11 41	
	<i>L·ZNE</i>	17	
	$\Delta = 53^\circ$. Kamchatka.		
25	<i>eP·Z'ZN</i>	3 50 36	
	<i>ePP·N</i>	52 25	
	<i>ePPP·NE</i>	53 57	
	<i>eS·NE</i>	58 15	
	<i>eSeS·E</i>	4 00 22	
	<i>eSS·E</i>	02 00	in the time break.
	<i>e·N</i>	03.1	
	<i>L·NE</i>	09	
	$\Delta = 55^\circ$. Kamchatka.		
25	<i>iP·Z'ZN</i>	11 21 35	D
	<i>isP·ZN</i>	22 12	
	<i>iPP·ZN</i>	23 39	
	<i>iS·NE</i>	29 13	
	<i>esS·E</i>	29 39	
	<i>i·E</i>	30 10	
	<i>iSeS·NE</i>	31 07	
	<i>eSSS·NE</i>	34 00	in the time break.
	<i>i·E</i>	35 40	
	<i>L·ZNE</i>	38	
	$\Delta = 55^\circ$. $h = 100$ km. Kamchatka.		

July

27	<i>e(PP)·NE</i>	10 ^h 24 ^m 56 ^s	
	<i>eSKS·NE</i>	30 52	
	<i>e(S)·N</i>	33 14	
	<i>ePS·NE</i>	35 18	
	<i>eSS·NE</i>	42 07	
	<i>L·NE</i>	11 06	
	$\Delta = 121^\circ$. $h = 150$ km. Chile.		
29	<i>ePKP·Z'Z</i>	0 43 21	
	<i>iPP·ZN</i>	45 27	
	<i>e(PKS)·NE</i>	46 45	
	<i>eSKKS·N</i>	52 07	
	<i>ePS·N</i>	55 49	
	<i>i·ZN</i>	1 00 09	
	<i>L·ZNE</i>	28	
	$\Delta = 128^\circ$. Loyalty Islands.		
29	<i>L·NE</i>	15 05	
29	<i>eP·Z'ZNE</i>	17 42 43	C
	<i>ipP·Z'Z</i>	43 01	
	<i>ePP·N</i>	45 24	
	<i>iS·NE</i>	51 46	
	<i>iPS·NE</i>	52 11	
	<i>eSS·NE</i>	56 20	
	<i>L·ZNE</i>	18 05	
	<i>M·E</i>	14	
	$\Delta = 69$. $h = 100$ km. Japan.		
30	<i>eS·E</i>	14 29 37	
	<i>eSSS·E</i>	34.3	
	<i>L·NE</i>	37	
	$\Delta = 53^\circ$. Near coast of Kamchatka.		
31	<i>ePP·ZN</i>	3 15 39	
	<i>ePPP·NE</i>	18 11	
	<i>ePS·NE</i>	25 08	
	<i>iPPS·ZN</i>	26 36	
	<i>eSS·NE</i>	32 11	
	<i>L·NE</i>	51	
	$\Delta = 115^\circ$. New Britain.		
31	<i>ePS·N</i>	7 34.1	
	<i>ePPS·N</i>	35.4	
	<i>L·NE</i>	8 05	
	New Britain.		
31	<i>L·NE</i>	16 02	
August			
1	<i>eP·Z'</i>	2 30 48	
	<i>eS·N</i>	39 01	
	<i>L·E</i>	52	
	$\Delta = 60^\circ$. Iran.		

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August	
2	<i>ePKP·Z'Z</i> 5 ^h 26 ^m 26 ^s C
	<i>iPP·Z'ZN</i> 28 43
	<i>iPKS·NE</i> 29 53
	<i>e·NE</i> 41 14
	<i>eSS·E</i> 46 14
	<i>L·NE</i> 6 10
	$\Delta = 131^\circ$, $h = 100$ km. Loyalty Islands region.
2	<i>L·NE</i> 10 46
2	<i>eP·Z'Z</i> 20 54 29
	<i>eS·N</i> 57 11
	<i>eSS·E</i> 57 34
	<i>L·NE</i> 59
	$\Delta = 15^\circ$. North Polar region.
4	<i>iP·Z'ZN</i> 7 44 40 C
	<i>iPPP·ZNE</i> 48 30
	<i>eS·NE</i> 52 38
	<i>iPS·E</i> 52 51
	<i>eSS·E</i> 56 36
	<i>L·E</i> 59
	<i>L·ZN</i> 8 04
	$\Delta = 58^\circ$. Aleutian Islands.
4	<i>eP·Z'</i> 14 15 18
	$\Delta = 58^\circ$. Aleutian Islands.
5	<i>eP·Z'</i> 22 37 29
	<i>eS·NE</i> 45 30
	<i>L·NE</i> 56
	$\Delta = 58^\circ$. Aleutian Islands.
8	<i>e·Z'</i> 3 02 54
	<i>i·Z'</i> 02 56
	<i>i·Z'</i> 02 59
	Near shock.
9	<i>L·E</i> 6 50
9	<i>L·E</i> 7 26
9	<i>eP·Z'Z</i> 7 49 21
	<i>eS·NE</i> 57 16
	<i>L·NE</i> 8 06
	$\Delta = 57^\circ$. California.
9	<i>ePKS·NE</i> 17 09 05
	<i>L·NE</i> 51
	$\Delta = 132^\circ$, $h = 120$ km. Tonga Islands Region.
10	<i>L·NE</i> 0 38
11	<i>iP·Z'</i> 5 04 03 D
	<i>L·NE</i> 43
	$\Delta = 97^\circ$, $h = 60$ km. Philippine Islands.

August	
12	<i>eP·Z'Z</i> 13 ^h 23 ^m 59 ^s
	<i>eS·E</i> 33 28
	<i>eSS·E</i> 38 29
	<i>L·E</i> 47
	$\Delta = 73^\circ$, $h = 60$ km. Japan.
13	<i>iP·Z'ZN</i> 7 22 07 C
	<i>epP·Z</i> 22 22
	<i>e·Z'</i> 22 28
	<i>eS·E</i> 31 12
	<i>ipS·E</i> 31 40
	<i>L·NE</i> 47
	$\Delta = 69^\circ$, $h = 60$ km. Japan.
13	<i>ePP·ZNE</i> 14 34 45
	<i>e·Z</i> 35 03
	<i>eSKS·NE</i> 40 30
	<i>eSKKS·NE</i> 41 45
	<i>iPS·NE</i> 44 41
	<i>eSS·E</i> 51 37
	<i>eSSS·NE</i> 55.4
	<i>L·NE</i> 15 11
	$\Delta = 118^\circ$. Chile.
14	<i>eP·Z'</i> 14 11 24
	$\Delta = 63^\circ$. Kurile Islands.
15	<i>L·E</i> 6 03
15	<i>L·E</i> 7 53
19	<i>iP·Z'</i> 12 53 42 C
	$\Delta = 82^\circ$, $h = 400$ km. Bonin Islands.
20	<i>L·NE</i> 0 54
20	<i>e·E</i> 20 35.6
	<i>eSS·E</i> 42 03
	<i>L·NE</i> 21 06
	$\Delta = 106^\circ$. Tristan da Cunha.
20	<i>eP·Z'</i> 22 33 30
23	<i>L·E</i> 9 35
23	<i>iP·Z</i> 23 03 36 C
	<i>L·NE</i> 50
	$\Delta = 122^\circ$. Fiji Islands.
24	<i>iS·NE</i> 2 01 14
	<i>eSSS·E</i> 07 17
	<i>L·NE</i> 12
	$\Delta = 54^\circ$. Kamchatka.
25	<i>L·NE</i> 18 07
26	<i>L·NE</i> 1 19

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August	
30	<i>L·NE</i> 7 ^h 38 ^m
31	<i>L·NE</i> 8 12
September	
1	<i>L·NE</i> 10 28
1	<i>eP·Z'Z</i> 15 46 03
	<i>ePP·ZNE</i> 47 59
	<i>eS·NE</i> 53 07
	<i>iPS·NE</i> 53 13
	<i>eSS·NE</i> 56 12
	<i>e·NE</i> 56 58
	<i>L·ZNE</i> 16 01
	$\Delta = 49^\circ$. Kodiak Islands.
2	<i>L·NE</i> 14 27
2	<i>e·N</i> 22 13 09
	<i>eS·E</i> 20 09
	<i>eScS·E</i> 22 12
	<i>L·NE</i> 28
	$\Delta = 55^\circ$. Aleutian Islands.
3	<i>ePP·N</i> 13 00 46
	<i>eSKS·N</i> 05 48
	<i>ePS·NE</i> 10 32
	<i>epPS·N</i> 11 42
	<i>eSSS·E</i> 18 57
	$\Delta = 115^\circ$, $h = 450$ km. Solomon Islands.
3	<i>eP·Z</i> 23 57 07
	$\Delta = 65^\circ$. No horizontal records. Kurile Islands.
6	<i>eP·Z'</i> 15 35 29
	$\Delta = 67^\circ$, $h = 100$ km. Japan.
6	<i>eP·Z'</i> 16 00 03
9	<i>L·Z</i> 16 22
	No horizontal records. Jan Mayen.
9	<i>L·Z</i> 20 07
	No horizontal records. Jan Mayen.
12	<i>iP·Z'</i> 12 29 18
	$\Delta = 80^\circ$. Ryukyu Islands.
13	<i>iP·Z'Z</i> 3 20 47 C
	<i>eSS·E</i> 35 38
	$\Delta = 81^\circ$, $h = 450$ km. Bonin Islands.
16	<i>L·E</i> 8 23
16	<i>eP·Z'</i> 8 16 40 in the time break.
	$\Delta = 60^\circ$. Kurile Islands.
17	<i>L·E</i> 21 09

September	
19	<i>e·E</i> 4 ^h 03 ^m 33 ^s
	<i>L·E</i> 31
19	<i>iPS·E</i> 19 22 34
	<i>L·E</i> 36
	$\Delta = 72^\circ$. Columbia - Panama border.
21	<i>eP·Z'</i> 00 20 45
	<i>eS·E</i> 21 27
	<i>eL·E</i> 21 45
	$\Delta = 4^\circ$. North of Iceland.
21	<i>iP·Z'</i> 16 20 07
	$\Delta = 80^\circ$, $h = 200$ km. China Sea.
26	<i>eP·Z'</i> 6 48 44
	<i>e·Z'</i> 49 42
	<i>L·E</i> 50
26	<i>L·E</i> 12 45
29	<i>L·NE</i> 19 28
30	<i>eS·NE</i> 6 51 19
	<i>eScS·NE</i> 54 04
	<i>L·NE</i> 58
	$\Delta = 50^\circ$. Vancouver Island.
October	
1	<i>eP·Z'Z</i> 16 20 36 C
	<i>ePeP·Z'Z</i> 21 32
	<i>ePPP·ZNE</i> 24 05
	<i>eScS·E</i> 30 28
	<i>eS·N</i> 32 24
	<i>e·E</i> 32 40
	<i>L·NE</i> 40
	$\Delta = 55^\circ$. Aleutian Islands.
2	<i>L·NE</i> 12 52
3	<i>L·E</i> 1 27
6	<i>eP·Z'</i> 19 58 52
	<i>eS·E</i> 20 01.2
	<i>L·ZNE</i> 02
	<i>M·ZNE</i> 06
	$\Delta = 13^\circ$. North Atlantic Ocean.
7	<i>eS·E</i> 3 21 04
	<i>eSS·N</i> 21 14
	<i>L·ZNE</i> 22
	$\Delta = 13^\circ$. North Atlantic Ocean.

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October	
7	<i>ePP·Z'ZNE</i> 15 ^b 38 ^m 11 ^s <i>eSKS·N</i> 43 58 <i>eSKKS·NE</i> 45 13 <i>i·E</i> 45 53 <i>ePS·NE</i> 48 03 <i>eSS·NE</i> 54 03 <i>eSSS·E</i> 58 04 <i>L·ZNE</i> 16 16 $\Delta = 114^\circ$. Banda Sea.
8	<i>L·NE</i> 2 30
8	<i>eP·Z'</i> 3 37 35 Local shock.
8	<i>eP·Z'ZNE</i> 6 03 05 <i>ipP·Z'ZN</i> 05 10 <i>iS·NE</i> 11 17 <i>eScS·E</i> 11 38 <i>iSP·N</i> 12 03 <i>esS·E</i> 14 28 <i>e·N</i> 15 04 <i>iSS·E</i> 16 16 <i>e·E</i> 17 23 <i>esSS·NE</i> 19 15 <i>L·NE</i> 25 <i>iPKPKPKZ'Z</i> 31 17 $\Delta = 67^\circ$. $h = 650$ km. Japan Sea.
8	<i>eP·Z'</i> 20 53 08 <i>eS·NE</i> 21 04 08 <i>L·NE</i> 26 $\Delta = 90^\circ$. Nicobar Islands.
9	<i>iP·Z'Z</i> 9 11 32 <i>epP·Z'</i> 11 54 <i>iS·NE</i> 20 26 <i>isS·E</i> 21 03 <i>e·E</i> 22 04 <i>eSS·NE</i> 25 13 <i>eSSS·E</i> 28 14 <i>L·NE</i> 35 $\Delta = 67^\circ$. $h = 100$ km. Japan.
13	<i>eP·Z'</i> 2 27 58 $\Delta = 35^\circ$. Rumania.
13	<i>iP·Z'ZN</i> 15 02 08 C <i>ePPP·N</i> 05 34 <i>iS·NE</i> 09 55 <i>iPS·E</i> 10 11 <i>iScS·E</i> 11 53 <i>iSS·E</i> 13 21 <i>L·ZNE</i> 21 $\Delta = 56^\circ$. Kamchatka.

October	
14	<i>eP·Z'</i> 21 ^b 28 ^m 53 ^s <i>ePPP·Z'</i> 31 38 <i>e·NE</i> 32 21 <i>eS·N</i> 36 36 <i>iPS·E</i> 36 48 <i>eScS·E</i> 38 34 <i>i·E</i> 38 46 <i>iSS·NE</i> 40 39 $\Delta = 55^\circ$. Aleutian Islands.
14	<i>iP·Z'ZN</i> 22 59 31 <i>iS·E</i> 23 02 19 <i>i·E</i> 02 48 <i>iL·E</i> 04 05 $\Delta = 15^\circ$. North Atlantic Ocean.
14	<i>eP·Z'</i> 23 07 34
15	<i>iP·Z'</i> 2 00 29 <i>e·E</i> 02 29 <i>L·NE</i> 04
16	<i>L·NE</i> 10 12
17	<i>L·NE</i> 22 56
20	<i>ePKP·Z'</i> 11 24 50 C $\Delta = 120^\circ$. Santa Cruz Islands.
22	<i>ePKP·Z'</i> 8 40 44 <i>ePP·Z'ZN</i> 42 21 <i>ePS·N</i> 52 02 <i>e·N</i> 54 02 <i>e·SS</i> 58.6 <i>L·NE</i> 9 20 $\Delta = 120^\circ$. $h =$ abt. 100 km. Solomon Islands.
23	<i>eP·Z'</i> 6 40 04 <i>L·NE</i> 59 $\Delta = 41^\circ$. Atlantic Ocean.
24	<i>ePKP·Z'</i> 5 30 51 $\Delta = 124^\circ$. $h =$ abt. 150 km. New Hebrides Islands.
No time marks from October 25, 17 ^h –October 30, 0 ^h .	
30	<i>eS·N</i> 12 39 44 <i>e·N</i> 45 36 <i>L·N</i> 13 07 $\Delta = 100^\circ$. Chile.
30	<i>e·Z'</i> 21 46 51 <i>eSKS·N</i> 56 58 <i>eS·N</i> 57 48 <i>e·N</i> 22 03 48 $\Delta = 99^\circ$. $h = 60$ km. Chile–Bolivia border.

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November	
1	<i>ePP·Z'Z</i> 9 ^b 05 ^m 56 ^s <i>eSKS·N</i> 11 44 <i>sS·N</i> 13 32 <i>ePPS·N</i> 16 44 <i>eSS·N</i> 21 20 <i>eSSS·N</i> 25.5 <i>L·ZN</i> 44 $\Delta = 115^\circ$. Chile.
2	<i>iPKP·Z'</i> 17 33 52 <i>ePPS·N</i> 45 45 <i>e·N</i> 56 52 <i>L·N</i> 18 20 $\Delta = 120^\circ$. Santa Cruz Islands.
5	<i>eP·Z'</i> 1 03 27 <i>epP·Z'</i> 03 40 $\Delta = 77^\circ$. $h =$ abt. 75 km. Japan.
5	<i>L·N</i> 20 37
6	<i>iP·Z'ZN</i> 4 48 03 <i>eS·N</i> 55 53 <i>L·N</i> 5 06 $\Delta = 57^\circ$. Kamchatka.
6	<i>L·N</i> 7 31
6	<i>iP·Z'</i> 22 19 36 <i>L·N</i> 40 $\Delta = 55^\circ$. Aleutian Islands.
8	<i>iP·Z'</i> 5 32 49 $\Delta = 65^\circ$. Kurile Islands.
8	<i>eP·Z'</i> 5 38 02 $\Delta = 65^\circ$. Kurile Islands.
8	<i>eP·Z'</i> 11 45 40 <i>L·NE</i> 12 06 $\Delta = 52^\circ$. Near coast of Oregon.
9	<i>ePKP·Z'</i> 3 37 08 <i>ePKS·Z'N</i> 40 40 <i>e·E</i> 47 52 <i>eSS·E</i> 57 11 <i>eSSS·NE</i> 4 01.8 <i>L·NE</i> 21 $\Delta = 132^\circ$. Sandwich Group.
9	<i>eP·Z'</i> 10 54 57 <i>eS·NE</i> 11 04 08 <i>eSS·E</i> 08.8 <i>L·NE</i> 18 $\Delta = 70^\circ$. China.
9	<i>L·NE</i> 21 00

November	
10	<i>ePP·Z'</i> 15 ^b 04 ^m 03 ^s <i>ePS·N</i> 13 34 <i>e·E</i> 13 41 <i>L·E</i> 42 $\Delta = 111^\circ$. New Guinea.
11	<i>iP·Z'</i> 5 38 57 C $\Delta = 39^\circ$. Greece.
13	<i>eSKS·N</i> 7 01 41 <i>ePPS·N</i> 06 06 <i>eSS·E</i> 10.4 <i>eSSS·NE</i> 14 52 <i>L·NE</i> 26 $\Delta = 106^\circ$. Molucca Passage.
13	<i>iP·NE</i> 9 30 14 <i>ePP·N</i> 32 22 <i>e·N</i> 35 18 <i>iS·NE</i> 38 03 <i>iScS·E</i> 39 48 <i>eSS·N</i> 41 44 <i>iSSS·E</i> 43 28 <i>L·NE</i> 47 $\Delta = 56^\circ$. Aleutian Islands.
14	<i>L·NE</i> 20 39
16	<i>iP·Z'</i> 23 10 05 D $\Delta = 61^\circ$. Sinkiang Province, China.
17	<i>iP·Z'</i> 19 56 24 D <i>L·NE</i> 20 13 $\Delta = 55^\circ$. Aleutian Islands.
20	<i>eP·Z'</i> 22 14 40 <i>eS·N</i> 25 21 <i>eScS·NE</i> 25 37 <i>ePS·NE</i> 26 14 <i>eSS·NE</i> 31 06 <i>L·NE</i> 41 $\Delta = 87^\circ$. h abt. 100 km. Near coast of Peru.
22	<i>eP·Z'</i> 3 13 34 $\Delta = 63^\circ$. Atlantic Ocean.
22	<i>L·NE</i> 4 32
22	<i>e·NE</i> 6 58.9 <i>L·NE</i> 7 18
22	<i>eP·Z'</i> 7 19 01 $\Delta = 57^\circ$. Kamchatka.
22	<i>ePP·Z'</i> 12 48 40 <i>ePS·E</i> 58 44 <i>ePPS·E</i> 59 50 <i>eSS·NE</i> 13 04 57 <i>eSSS·NE</i> 09 20 <i>L·NE</i> 25 $\Delta = 117^\circ$. Southern Chile.

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November

22	<i>iP·Z'</i>	19 ^h 11 ^m 09 ^s
23	<i>ePKP·Z'Z</i>	14 31 42
	<i>ePKS·Z</i>	35 10
	<i>eSKSP·N</i>	43 55
	<i>ePS·E</i>	44 13
	<i>e·ZN</i>	46 54
	<i>e·E</i>	47 13
	<i>eSS·E</i>	51 40
	<i>e·N</i>	51 59
	<i>L·ZNE</i>	15 14
	$\Delta = 132^\circ$.	Tonga Islands.
24	<i>ePKP·Z'Z</i>	7 11 58
	<i>ePP·Z'</i>	14 16
	<i>e·Z</i>	14 26
	<i>ePKS·NE</i>	15 20
	<i>eSKKS·N</i>	21 38
	<i>ePS·E</i>	24 45
	<i>e·N</i>	25 00
	<i>ePPS·E</i>	26 43
	<i>eSS·E</i>	31 50
	<i>L·NE</i>	50
	$\Delta = 132^\circ$.	Tonga Islands.
25	<i>eS·E</i>	22 14 28
	<i>e·E</i>	15 12
	$\Delta = 70^\circ$.	$h = 100$ km. Japan.
27	<i>iP·Z'</i>	15 27 57 C
	<i>epP·Z'</i>	28 07
	<i>esP·Z'</i>	28 21
	$\Delta = 65^\circ$.	$h =$ abt. 100 km. Japan.
28	<i>eP·Z'</i>	19 52 27
	$\Delta = 65^\circ$.	North Atlantic Ocean.
29	<i>iP·Z'</i>	14 19 03 C
	$\Delta = 82^\circ$.	Ryukyu Islands.

December

1	<i>eP·Z'</i>	20 58 51
	<i>L·NE</i>	21 14
	$\Delta = 51^\circ$.	Vancouver Island.
1	<i>L·NE</i>	22 15
2	<i>eP·Z'</i>	9 24 36
	<i>eSKS·N</i>	35 24
	<i>iSKKS·NE</i>	35 34
	<i>eS·NE</i>	36 46
	<i>ePS·E</i>	37 48
	<i>eSS·NE</i>	42 38
	<i>i·N</i>	43 35
	<i>L·NE</i>	52
	$\Delta = 101^\circ$.	Chile.

December

3	<i>iP·Z'</i>	4 ^h 34 ^m 24 ^s C
	$\Delta = 60^\circ$.	Outer Mongolia.
3	<i>iP·Z'</i>	7 18 03 C
	$\Delta = 55^\circ$.	$h = 150$ km. Aleutian Islands.
3	<i>eP·Z'</i>	20 27 31
	$\Delta = 33^\circ$.	Laptev Sea.
4	<i>eP·Z'</i>	16 32 21
	$\Delta = 75^\circ$.	Japan.
5	<i>eP·Z'</i>	18 17 02
	$\Delta = 55^\circ$.	Kamchatka.
5	<i>eP·Z'</i>	21 29 06 C
	$\Delta = 36^\circ$.	Straits of Gibraltar.
6	<i>L·NE</i>	9 35
7	<i>e·Z'</i>	13 37 49
		Possibly local quake.
9	<i>eP·Z'</i>	21 26 34
	<i>L·E</i>	27
	$\Delta = 7^\circ$.	Jan Mayen region.
11	<i>eP·Z'</i>	0 25 22
11	<i>ePKP·Z'</i>	19 11 57
	$\Delta = 125^\circ$.	New Hebrides Islands.
13	<i>ePKP2·Z'</i>	7 57 17
	<i>e·Z'Z</i>	57 48
	<i>i·ZNE</i>	8 01 52
	<i>eSKS·Z</i>	03 39
	<i>ePPP2·E</i>	08 32
	<i>eSKSP·N</i>	11 18
	<i>i·Z</i>	13 15
	<i>eSKSP2·NE</i>	14 55
	<i>eSS·E</i>	21 18
	<i>ePSS·N</i>	26 22
	<i>L·NE</i>	52
	$\Delta = 162^\circ$.	Macquarie Islands.
13	<i>iP·Z'</i>	10 17 42 C
	$\Delta = 82^\circ$.	Bonin Islands.
15	<i>eP·Z'</i>	0 05 28
	<i>iS·N</i>	17 07
	<i>iPPS·N</i>	19 37
	<i>eSSS·N</i>	28.6
	<i>L·N</i>	47
	$\Delta = 103^\circ$.	$h = 75$ km. Molucca Passage.

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December

15	<i>iP·Z'</i>	0 ^h 22 ^m 08 ^s C
16	<i>eP·Z'</i>	1 29 35
	$\Delta = 55^\circ$.	Aleutian Islands.
16	<i>iP·Z'</i>	18 27 16 C
	<i>L·N</i>	35
	$\Delta = 28^\circ$.	North Atlantic Ocean.
17	<i>eP·Z'</i>	2 14 21
	$\Delta = 57^\circ$.	Aleutian Islands.
17	<i>eP·Z'</i>	16 55 11
	$\Delta = 62^\circ$.	Kurile Islands.
21	<i>iP·Z'</i>	14 47 54 C
	<i>eSSS·N</i>	58 12
	$\Delta = 45^\circ$.	$h = 125$ km. Alaska.
22	<i>eP·Z'</i>	14 37 04
	<i>e·Z'</i>	37 32
	$\Delta = 53^\circ$.	Aleutian Islands.

December

25	<i>eP·Z'</i>	5 ^h 33 ^m 15 ^s
	$\Delta = 80^\circ$.	Bonin Islands.
26	<i>eP·Z'</i>	1 56 33
	$\Delta = 74^\circ$.	Japan.
26	<i>ePKP·Z'</i>	4 51 35
	$\Delta = 132^\circ$.	Sandwich Group.
27	<i>iP·Z'</i>	18 22 46 C
	$\Delta = 92^\circ$.	$h =$ abt. 100 km. Near coast of Peru.
28	<i>eP·Z'</i>	5 47 41
	$\Delta = 43^\circ$.	Southwest of Crete.
29	<i>eP·Z'</i>	18 27 37
	$\Delta = 43^\circ$.	Crete.
29	<i>eP·Z'</i>	19 15 05
	$\Delta = 95^\circ$.	Northern Chile.

May 1963

Henry Jensen / Erik Møller