

GEODÆTISK INSTITUT
Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station
SCORESBYSUND

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

Lithologic foundation: gneiss

Instruments

- Galitzin-Wilip. *N* and *E*. $T_p = T_g = 12 \text{ sec,} \quad \mu^2 = 0, \quad \frac{Ak}{\pi l} = 300 \quad \text{or} \quad V_{\text{max}} \text{ abt. } 1000.$
- Galitzin-Wilip. *Z*. $T_p = 9 \text{ sec,} \quad T_g = 10 \text{ sec,} \quad \mu^2 = 0, \quad \frac{Ak}{\pi l} = 200 \quad \text{or} \quad V_{\text{max}} \text{ abt. } 600.$
- Grenet *Z'*. $T_p = 1 \text{ sec,} \quad T_g = \frac{1}{4} \text{ sec,} \quad V_{\text{max}} \text{ abt. } 30\,000.$

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. + indicates ground motion towards the north, towards the east, or upwards. – indicates the opposite direction. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.

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January

1	<i>ePKP·Z'</i>	13 ^h 22 ^m 50 ^s	
	<i>ePS·N</i>	33.6	
	<i>L·NE</i>	59	
	$\Delta = 115^\circ$. $h = 100$ km. Flores Sea.		
2	<i>iP·Z'</i>	1 21 23	
	$\Delta = 43^\circ$. Dodecanese.		
2	<i>iP·Z'</i>	20 26 45	
	$\Delta = 53^\circ$. Aleutian Islands.		
3	<i>e·Z'</i>	4 32 34	
5	<i>i·Z'</i>	7 20 52	
	$\Delta = 10^\circ$. Svalbard region.		
5	<i>eP·Z'</i>	22 15 40	
	$\Delta = 10^\circ$. Svalbard region.		
5	<i>i·Z'</i>	22 21 07	
6	<i>iP·Z'</i>	15 56 23	
	<i>eS·NE</i>	58 20	
	<i>L·ZE</i>	58 51	
	$\Delta = 10^\circ$. Svalbard region.		
7	<i>L·NE</i>	7 59	
11	<i>eP·Z'</i>	17 21 37	
	<i>ePP·Z'</i>	24 51	
	<i>L·E</i>	55	
	$\Delta = 84^\circ$. Ryukyu Islands region.		
12	<i>ePKP·Z'</i>	14 36 27	
	<i>ePP·NE</i>	40 35	
	$\Delta = 158^\circ$. New Zealand.		
12	<i>ePKP·Z'</i>	14 40 23	
	<i>ePP·N</i>	44 40	
	<i>eSKKS·N</i>	51 26	
	<i>iSS·NE</i>	15 04 53	
	Some of the phases possibly due to previous quake.		
	$\Delta = 158^\circ$. New Zealand.		
12	<i>eP·Z'</i>	23 43 58	
	<i>L·NE</i>	24 04	
	$\Delta = 59^\circ$. California.		
13	<i>ePKP·Z'</i>	0 33 06	dubious.
	<i>iPKP2·Z'</i>	33 42	
	<i>ePP·Z'</i>	37 29	
	Very strong microseisms.		
	$\Delta = 158^\circ$. New Zealand.		
15	<i>iPKP·Z'</i>	23 49 38	
	$\Delta = 126^\circ$. Tonga Islands.		

January

16	<i>i·Z'</i>	3 ^h 52 ^m 28 ^s	
16	<i>i·Z'</i>	5 22 26	
	<i>i·Z'</i>	22 29	
	<i>i·Z'</i>	22 35	
17	<i>iP·Z'</i>	3 15 43	
	$\Delta = 75^\circ$. Japan.		
17	<i>iP·Z'</i>	11 57 38	
	$\Delta = 72^\circ$. Japan.		
17	<i>iP·Z'</i>	20 53 17	
	<i>epP·Z'</i>	53 42	
	$\Delta = 57^\circ$. $h = 150$ km. Aleutian Islands.		
18	<i>iPKP·Z'</i>	11 05 48	
	$\Delta = 113^\circ$. Banda Sea.		
18	<i>eP·Z'</i>	14 23 44	
	$\Delta = 40^\circ$. Greece.		
19	<i>e·Z'</i>	3 26 07	
	<i>e·Z'</i>	27 16	
20	<i>e·Z'</i>	0 49 41	
	<i>e·Z'</i>	50 54	
20	<i>eP·Z'</i>	4 28 39	
	<i>ePP·Z'</i>	31 39	
	$\Delta = 80^\circ$. South of Mexico.		
20	<i>ePKP·Z'</i>	14 09 06	
	$\Delta = 129^\circ$. Tonga Islands.		
20	<i>e·Z'</i>	16 26 21	
22	<i>iP·Z'</i>	11 25 21	
	$\Delta = 53^\circ$. Alaska.		
30	<i>eP·Z'</i>	4 03 21	
	$\Delta = 40^\circ$. Ionian Sea.		
30	<i>eP·Z'</i>	18 37 02	
	<i>L·NE</i>	55	
	$\Delta = 53^\circ$. Alaska.		
31	<i>L·NE</i>	12 16	

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February

1	<i>iP·Z'Z</i>	1 ^h 19 ^m 29 ^s	
	<i>i·Z</i>	20 09	
	<i>ePP·Z'Z</i>	22 52	
	<i>i·N</i>	23 00	
	<i>eSKS·N</i>	29 59	
	<i>i·E</i>	30 04	
	<i>iS·N</i>	30 09	
	<i>iPS·E</i>	30 59	
	<i>i·N</i>	31 04	
	<i>iSS·E</i>	35 45	
	<i>i·N</i>	35 54	
	<i>i·E</i>	37 19	
	<i>eSSS·E</i>	39 14	
	<i>L·NE</i>	48	
	<i>M·N</i>	56	20 ^s . 15 μ .
	<i>M·E</i>	57	20 ^s . 25 μ .
	$\Delta = 85^\circ$. Bonin Islands.		
1	<i>eP·Z'</i>	1 32 47	
	$\Delta = 85^\circ$. Bonin Islands.		
1	<i>eP·Z'</i>	4 42 16	
	<i>L·NE</i>	5 02	
	$\Delta = 62^\circ$. California.		
2	<i>iP·Z'</i>	17 48 53	
	<i>i·Z'</i>	49 00	
	<i>eS·Z'</i>	51 15	
	<i>L·Z'</i>	52 20	
	<i>M·Z'ZNE</i>	53	N, E: 10 ^s . 5 μ .
	$\Delta = 13^\circ$. Off North-east Greenland.		
3	<i>iP·Z'</i>	18 34 22	
	$\Delta = 65^\circ$. $h = 100$ km. Kurile Islands.		
5	<i>ePKP·Z'</i>	9 38 10	
	$\Delta = 115^\circ$. New Britain.		
5	<i>e·Z'</i>	9 49 12	
5	<i>eP·Z'</i>	15 28 49	
	$\Delta = 67^\circ$. $h = 100$ km. Mexico.		
7	<i>iPKP·Z'</i>	6 34 15	
	$\Delta = 124^\circ$. $h = 100$ km. New Hebrides.		
7	<i>i·Z'</i>	6 43 57	
8	<i>eP·Z'</i>	14 32 37	
	$\Delta = 99^\circ$. $h = 150$ km. Chile-Bolivia border.		
8	<i>iP·Z'</i>	18 55 22	
	$\Delta = 80^\circ$. Japan.		

February

9	<i>eP·Z'</i>	4 ^h 14 ^m 53 ^s	
	$\Delta = 66^\circ$. Japan.		
9	<i>iP·Z'</i>	17 48 59	
	<i>L·E</i>	18 07	
	$\Delta = 54^\circ$. $h = 100$ km. Aleutian Islands.		
9	<i>eP·Z'</i>	23 34 48	
	<i>e·Z'</i>	34 59	
	<i>i·E</i>	43.2	
	$\Delta = 36^\circ$. South-east of Azores.		
11	<i>iP·Z'Z</i>	0 40 46	+
	<i>i·Z'Z</i>	40 50	-. 6 ^s . 20 μ .
	<i>ePP·N</i>	42 54	
	<i>iPPP·NE</i>	44 57	
	<i>iS·NE</i>	49 27	10 ^s . N: 10 μ , E: 13 μ .
	<i>iScS·NE</i>	50 40	
	<i>eSS·N</i>	53.5	
	<i>i·NE</i>	55 37	
	<i>i·NE</i>	56 27	
	<i>L·NE</i>	1 00	
	<i>M·N</i>	07	16 ^s . 45 μ .
	<i>M·E</i>	09	20 ^s . 100 μ .
	$\Delta = 63^\circ$. Ningsia Province, China.		
14	<i>eP·Z'</i>	6 54 29	
	$\Delta = 86^\circ$. Northern Peru.		
17	<i>eP·Z'</i>	11 46 41	
	$\Delta = 63^\circ$. $h = 100$ km. Kurile Islands.		
18	<i>e·Z'</i>	19 20 09	
19	<i>eP·Z'</i>	0 51 45	
	<i>eS·E</i>	1 01 11	uncertain.
	<i>eSS·E</i>	05 39	
	<i>L·E</i>	15	
	$\Delta = 71^\circ$. Nicaragua.		
19	<i>eP·Z'</i>	13 37 59	
	$\Delta = 55^\circ$. Sinkiang Province, China.		
19	<i>L·E</i>	15 07	
19	<i>ePKP·Z'</i>	19 27 04	
	<i>e·E</i>	42 17	
	<i>iSS·E</i>	48 12	
	<i>e·E</i>	50 11	
	$\Delta = 137^\circ$. Kermadec Islands.		

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February

19 *eP·Z'* 21^h45^m52^s
ePcP·Z'E 46 12
eS·E 55 12
iScS·E 55 47
iSS·E 59 48
L·E 22 10
M·E 11 30^s. 50 μ .
 $\Delta = 70^\circ$. Nicaragua.

20 *L·E* 2 39

20 *epP·Z'* 18 50 53
iPKP·Z' 52 42
ePP·Z 53 48
epPP·Z' 55 30
i·Z 55 42
iSKS·NE 58 43
i·NE 59 53
iS·E 19 00 38
e·N 00 43
isSKS·N 02 33
i·E 02 38
iPS·E 03 28
i·N 03 38
isPS·NE 06 06
 $\Delta = 112^\circ$. $h = 600$ km. Flores Sea.

20 *eP·Z'* 20 03 32
 $\Delta = 65^\circ$. $h = 100$ km. Lesser Antilles.

22 *iP·Z'* 6 23 09 +
 $\Delta = 75^\circ$. Japan.

22 *eP·Z'* 10 38 30
 $\Delta = 75^\circ$. Japan.

22 (*i*)*PKP·Z'* 12 22 26 in the time-break.
eSS·E 41.7
 $\Delta = 128^\circ$. Sandwich Group.

23 *eP·Z'* 6 51 55
L·E 7 19
 $\Delta = 72^\circ$. Southeastern Tibet.

23 *e·Z'* 22 42 11
i·Z' 42 15
i·Z' 42 18

24 *iP·Z'* 17 39 27 -
 $\Delta = 74^\circ$. Japan.

24 *eP·Z'* 20 56 50
 $\Delta = 82^\circ$. Bonin Islands.

February

25 *iP·Z'* 11^h53^m38^s
 $\Delta = 20^\circ$. North Atlantic Ocean.

26 *iP·Z'* 0 03 26
 $\Delta = 75^\circ$. Japan.

26 *iP·Z'* 18 55 53
 $\Delta = 57^\circ$. Hindu Kush.

28 *L·E* 0 37

28 *iP·Z'Z* 1 07 38 -
i·Z' 07 57 +
iS·E 17 57
eSS·E 23.0
L·E 35
 $\Delta = 82^\circ$. Ryukyu Islands.

28 *e·Z'* 21 26 34
i·Z' 26 44
e·Z' 26 50

March

2 *L·E* 7 16

3 *e·Z'* 4 18 49
e·Z' 18 57

3 *iPKP·Z'Z* 6 21 40
iPP·Z'ZN 22 40
i·E 22 45
iPPP·E 24 53
iPS·E 32 11
e·Z'Z 32 18
eSS·E 38 06
i·E 39 41
L·E 7 01
 $\Delta = 115^\circ$. New Guinea.

3 *eP·Z'* 19 55 28
 $\Delta = 40^\circ$. Greece.

3 *iP·Z'* 20 54 00
e·Z'N 56 06
L·E 21 09
 $\Delta = 42^\circ$. Southern Alaska.

6 *iPKP·Z'* 0 47 44 -
ePP·Z' 50 09
i·Z' 50 21
iSS·E 1 07 03
 $\Delta = 131^\circ$. $h = 550$ km. Fiji Islands region.

6 *e·Z'* 22 22.8

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March

7	<i>eP·Z'</i>	1 ^h 57 ^m 01 ^s	$\Delta = 82^\circ$. Ascension Island region.
8	<i>eP·Z'</i>	8 24 52	$\Delta = 39^\circ$. Ionian Islands.
8	<i>iP·Z'</i>	13 49 01	$\Delta = 72^\circ$. Japan.
9	<i>eP·Z'</i>	2 32 55	$\Delta = 70^\circ$. Mid Atlantic Ocean.
	<i>i·Z'</i>	33 01	
	<i>iS·NE</i>	42 08	
	<i>iPS·E</i>	42 25	
	<i>eSS·E</i>	46.3	
	<i>eSSS·E</i>	50.1	
	<i>L·N</i>	56	
9	<i>eP·Z'</i>	5 41 49	$\Delta = 68^\circ$. Chinghai Province, China.
9	<i>e·Z'</i>	5 43 46	$\Delta = 60^\circ$. Kamchatka.
	<i>e·Z'</i>	44 15	
	<i>e·Z'</i>	44 35	
9	<i>iP·Z'</i>	5 49 29	$\Delta = 60^\circ$. Kamchatka.
	<i>iPeP·Z'</i>	50 18	
	<i>eS·NE</i>	57 40	
	<i>L·E</i>	6 09	
9	<i>iPKP·Z'</i>	10 43 28	$\Delta = 127^\circ$. $h = 350$ km. Fiji Islands.
10	<i>iP·Z'</i>	14 21 17	$\Delta = 81^\circ$. $h = 100$ km. Ecuador.
11	<i>eP·Z'</i>	10 41 12	$\Delta = 69^\circ$. $h = 100$ km. Guatemala.
	<i>ePP·Z'</i>	43 50	
12	<i>e·Z'</i>	10 36 52	$\Delta = 126^\circ$. Sandwich Group.
12	<i>iPKP·Z'</i>	11 31 17	
12	<i>e·Z'</i>	11 34 22	$\Delta = 58^\circ$. Kamchatka.
14	<i>eP·Z'</i>	17 54 24	
	<i>eS·NE</i>	18 02 30	
	<i>L·E</i>	12	
14	<i>e·Z'</i>	20 52 51	$\Delta = 58^\circ$. Kamchatka.
	<i>e·Z'</i>	53 01	

March

16	<i>iP·Z'</i>	5 ^h 37 ^m 05 ^s	$\Delta = 59^\circ$. Kurile Islands.
16	<i>e·Z'</i>	14 32 00	$\Delta = 62^\circ$. California.
16	<i>L·E</i>	20 14	
17	<i>iP·Z'</i>	13 12 08	$\Delta = 70^\circ$. Mexico.
18	<i>e·Z'</i>	17 30 29	$\Delta = 62^\circ$. California.
19	<i>e·Z'</i>	8 32 37	
	<i>e·Z'</i>	33 32	
19	<i>iP·Z'</i>	10 04 42	$\Delta = 62^\circ$. Kurile Islands.
	<i>iS·NE</i>	13 05	
	<i>L·NE</i>	22	
19	<i>eP·Z'</i>	10 31 28	Repetition.
20	<i>iP·Z'</i>	14 14 25	$\Delta = 62^\circ$. $h = 100$ km. Kurile Islands.
	<i>L·E</i>	38	
21	<i>iP·Z'</i>	6 19 12	$\Delta = 56^\circ$. Kamchatka.
21	<i>i·Z'</i>	11 26 45	$\Delta = 75^\circ$. $h = 150$ km. Northwestern Burma.
	<i>i·Z'</i>	26 57	
21	<i>iP·Z'ZNE</i>	23 53 41	$Z': +$
	<i>epP·NE</i>	54 12	$H = 6^h17^m06^s$.
	<i>isP·Z'ZE</i>	54 24	
	<i>iPP·ZNE</i>	56 36	
	<i>isPP·ZE</i>	57 31	
	<i>iS·NE</i>	24 03 09	
	<i>esS·N</i>	04 16	
	<i>eSS·E</i>	07 48	
	<i>i·N</i>	08 16	
29	<i>iP·Z'ZNE</i>	0 00	$\Delta = 35^\circ$. $h = 650$ km. Sierra Nevada.
	<i>ipP·Z'Z</i>	1 49	
	<i>isP·Z</i>	3 03	
	<i>iS·E</i>	5 01	
	<i>i·E</i>	8 13	

NB. From March 22 to April 7 no time-signal has been received due to a break-down of the radio. For the following quake the times are counted from the first phase.

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April		
8	<i>L</i> · <i>NE</i>	17 ^h 29 ^m
11	<i>iP</i> · <i>Z'</i>	10 37 14
	<i>i</i> · <i>Z'</i>	37 19
	<i>i</i> · <i>Z'</i>	37 26
	<i>eS</i> · <i>N</i>	44 48
	<i>e</i> · <i>N</i>	55.7
	$\Delta = 76^\circ$. Arabian Sea.	
11	<i>iP</i> · <i>Z'</i>	11 03 02
	<i>eS</i> · <i>E</i>	10 58
	<i>iSSS</i> · <i>N</i>	16 48
	Strong microseisms. $\Delta = 57^\circ$. Hindu Kush.	
13	<i>iP</i> · <i>Z'</i>	15 37 26
	<i>i</i> · <i>Z'</i>	37 33
	$\Delta = 74^\circ$. Japan.	
14	<i>iP</i> · <i>Z'</i>	13 37 43
	$\Delta = 89^\circ$. Andaman Islands region.	
16	<i>iP</i> · <i>Z'</i>	10 41 11
	$\Delta = 66^\circ$. Japan.	
17	<i>iP</i> · <i>Z'Z</i>	20 20 26
	<i>e(PcP)</i> · <i>N</i>	21 32
	<i>iPPP</i> · <i>N</i>	24 07
	<i>iS</i> · <i>E</i>	28 31
	<i>i</i> · <i>N</i>	28 53
	<i>iSS</i> · <i>N</i>	32 35
	<i>eSSS</i> · <i>E</i>	34 56
	<i>L</i> · <i>NE</i>	39
	<i>M</i> · <i>E</i>	41 20 ^s . 35 μ .
	<i>M</i> · <i>N</i>	44 20 ^s . 40 μ .
	$\Delta = 58^\circ$. Aleutian Islands.	
17	<i>iP</i> · <i>Z'</i>	21 00 24
	$\Delta = 40^\circ$. Greece.	
19	<i>ePKP</i> · <i>Z'</i>	16 32 51
	(<i>i</i>) <i>PKS</i> · <i>Z'</i>	36 19 in the time-break.
	$\Delta = 131^\circ$. Loyalty Islands.	
20	<i>eP</i> · <i>Z'</i>	16 35 08
	<i>iS</i> · <i>Z'</i>	35 36
	$\Delta = 2\frac{1}{2}^\circ$.	
20	<i>eP</i> · <i>Z'</i>	16 51 26
	<i>iS</i> · <i>Z'</i>	51 55
	$\Delta = 2\frac{1}{2}^\circ$.	

April		
21	<i>eP</i> · <i>Z'</i>	2 ^h 01 ^m 50 ^s
	<i>iS</i> · <i>Z'</i>	02 18
	$\Delta = 2\frac{1}{2}^\circ$.	
21	<i>eP</i> · <i>Z'</i>	10 05 42
	<i>e</i> · <i>Z'</i>	07 29
	<i>L</i> · <i>E</i>	22
	$\Delta = 43^\circ$. Caucasias.	
21	<i>eP</i> · <i>Z'</i>	20 36 01
	<i>eSKS</i> · <i>N</i>	46 31
	$\Delta = 91^\circ$. Peru.	
22	<i>iP</i> · <i>Z'Z</i>	15 06 15
	<i>eSKS</i> · <i>NE</i>	16 07
	<i>e</i> · <i>E</i>	18 31
	$\Delta = 87^\circ$. <i>h</i> = 300 km. Mariana Islands.	
23	<i>i</i> · <i>Z'</i>	18 33 39
24	<i>eP</i> · <i>Z'</i>	8 40 46
	$\Delta = 40^\circ$. <i>h</i> = 100 km. Alaska.	
24	<i>e</i> · <i>Z'</i>	14 05 36
24	<i>e</i> · <i>Z'</i>	14 06 49
	<i>L</i> · <i>NE</i>	07.4
24	<i>eP</i> · <i>Z'</i>	17 45 32
	$\Delta = 75^\circ$. Japan.	
24	<i>iP</i> · <i>Z'</i>	18 43 42
	$\Delta = 66^\circ$. Japan.	
25	<i>eP</i> · <i>Z'Z</i>	0 39 12
	<i>eS</i> · <i>NE</i>	48 32
	<i>eSS</i> · <i>NE</i>	53.3
	<i>eSSS</i> · <i>E</i>	56.6
	<i>L</i> · <i>N</i>	1 00
	$\Delta = 71^\circ$. Mid Atlantic Ocean.	
25	<i>e</i> · <i>Z'</i>	15 06 44
25	<i>e</i> · <i>N</i>	17 56 45
25	<i>eP</i> · <i>Z'</i>	20 11 11
	$\Delta = 39^\circ$. Greece.	
25	<i>eP</i> · <i>Z'</i>	20 43 30
	<i>L</i> · <i>NE</i>	21 02
	$\Delta = 57^\circ$. California.	
26	<i>iP</i> · <i>Z'</i>	2 22 01
	$\Delta = 67^\circ$. Japan.	

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April			
26	<i>eP·Z'</i>	9h29m51s	
	<i>L·NE</i>	10 00	
	$\Delta = 84^\circ$. Galapagos Islands.		
26	<i>i·Z'</i>	15 02 24	
26	<i>iP·Z'ZNE</i>	20 34 36	<i>Z</i> : 5s. + 8 μ .
	<i>ePP·N</i>	36 49	
	<i>ePPP·ZN</i>	38 04	
	<i>eS·NE</i>	42 31	
	<i>i·E</i>	43 00	
	<i>eScS·E</i>	44 46	
	<i>L·NE</i>	52	
	$\Delta = 58^\circ$. Kamchatka.		
27	<i>iP·Z'ZNE</i>	10 18 09	
	<i>eS·NE</i>	27 42	
	<i>SS·E</i>	32.5	
	<i>SSS·E</i>	36.1	
	<i>L·E</i>	41	
	$\Delta = 75^\circ$. Panama.		
27	<i>ePKP·Z'</i>	21 41 42	
	<i>ePKP2·Z'</i>	42 34	
	<i>eSKKS·N</i>	53 12	
	<i>eSS·E</i>	22 06 59	
	<i>L·NE</i>	22.6	
	$\Delta = 165^\circ$. Tasmania.		
28	<i>iP·Z'</i>	5 00 45	
	$\Delta = 57^\circ$. Aleutian Islands.		
29	<i>eP·Z'Z</i>	10 59 56	
	<i>eS·NE</i>	11 08 27	
	<i>L·N</i>	18	
	<i>M·N</i>	20	35s. 20 μ .
	$\Delta = 63^\circ$. Gulf of California.		
29	<i>eP·Z'Z</i>	11 45 05	
	<i>L·N</i>	12 04.5	
	<i>M·N</i>	11	18s. 150 μ .
	$\Delta = 63^\circ$. Gulf of California.		
30	<i>e·Z'</i>	12 06 59	
30	<i>e·Z'</i>	13 03 04	
30	<i>iP·Z'ZNE</i>	13 10 01	6s. 16 μ .
	<i>iPP·Z'ZNE</i>	11 36	
	<i>iS·NE</i>	15 59	
	<i>iSSS·NE</i>	18 57	
	<i>M·NE</i>	28	<i>N, E</i> : 15s. 45 μ .
	$\Delta = 39^\circ$. Greece.		
30	<i>iP·Z'</i>	19 40 55	
	$\Delta = 39^\circ$. Greece.		

April

30 $e \cdot Z'$ 22^h37^m29^s

30 $eP \cdot Z'$ 23 15 50

$eS \cdot E$ 25 12

$e \cdot N$ 25 27

$SSS \cdot E$ 33 11

$L \cdot N$ 39

$\Delta = 72^\circ$. Mid Atlantic Ocean.

May

1 $ePKP \cdot Z'$ 0 39 14

$\Delta = 125^\circ$. Fiji Islands region.

1 $eP \cdot Z'$ 15 06 11

$\Delta = 42^\circ$. Aegean Sea.

1 $eP \cdot Z'$ 15 32 41

$L \cdot E$ 47

$\Delta = 42^\circ$. Aegean Sea.

1 $eP \cdot Z'$ 18 19 05

$\Delta = 85^\circ$. Formosa.

1 $eP \cdot Z'$ 21 01 14

$eS \cdot E$ 07.5

$e \cdot N$ 10.7

$L \cdot N$ 13

$L \cdot E$ 15

$\Delta = 42^\circ$. Aegean Sea.

2 $eSKS \cdot NE$ 18 12 02

$eSKKS \cdot E$ 12 17

$eS \cdot NE$ 12 43

$eSS \cdot N$ 19 13

$e \cdot NE$ 28.5

$L \cdot NE$ 33

$\Delta = 95^\circ$. Sumatra.

3 $eP \cdot Z'$ 4 09 13

$\Delta = 65^\circ$. Mid Atlantic Ocean.

3 $iP \cdot Z'$ 5 32 46

$SSS \cdot E$ 42.6

$L \cdot NE$ 49

$\Delta = 42^\circ$. Greece.

3 $(i)P \cdot Z'$ 8 59 08 in the time-break.

$S \cdot E$ 9 05.7

$SSS \cdot N$ 08.7

$L \cdot NE$ 13

$\Delta = 42^\circ$. Greece.

3 $eP \cdot Z'$ 13 37.8

$ePP \cdot Z'$ 39 40

$SSS \cdot N$ 48.4

$L \cdot NE$ 52

$\Delta = 44^\circ$. Dodecanese Islands.

Scoresbysund 1954

May
3 *i·Z'* 14^h05^m16^s

3 *eP·Z'Z* 15 39 38
i·Z'Z 39 40 *Z*: 5^s. - 5 μ .
ePP·Z 41 32
iS·E 47 42
e·N 47 48
iPS·NE 47 59
i·N 48 28
iScS·E 49 28
i·N 50 04
L·NE 59
M·E 16 04 20^s. 32 μ .
M·N 08 20^s. 18 μ .
 Δ = 59°. Kamchatka.

3 *iP·Z'Z* 17 24 33
ipP·Z'Z 25 10
iS·N 33 31
isS·N 34 39
 Δ = 70°. *h* = 150 km. Nicaragua.

3 *eP·Z'* 18 31 42
 Δ = 70°. Sikang Province, China.

4 *ePKP·Z'* 3 01 45
iPKP2·Z' 01 59
e·Z' 02 25
 Δ = 153°. New Zealand.

4 *iP·Z'* 6 36 19
 Δ = 73°. Japan.

4 *iP·Z'* 16 50 38
L·E 17 02
 Δ = 38°. Greece.

4 *iP·Z'Z* 16 52 53
 Δ = 38°. Greece.

4 *eP·Z'* 17 45 00
i·Z' 45 18
L·E 18 02
 Δ = 58°. Kamchatka.

4 *eP·Z'* 17 55 29
iS·Z' 58 30
 Δ = 18°. Devon Island region, Canada.

4 *e·Z'* 18 23 36

4 *eP·Z'* 23 52 18
 Δ = 39°. Greece.

5 *L·E* 0 45

May
5 *eP·Z'* 1^h05^m35^s
 Δ = 40°. Greece.

5 *e·Z'* 2 35.2

5 *L·E* 11 35

5 *eP·Z'Z* 13 20 24 *Z*: 4^s. 1.5 μ .
i·Z' 20 30
i·E 24 33
eS·E 29.2
L·E 40
M·E 48 16^s. 50 μ .
 Δ = 65°. Gulf of California.

5 *iP·Z'* 17 23 19
eS·NE 31 26
L·NE 43
 Δ = 59°. Kamchatka.

6 *iP·Z'Z* 9 12 10 *Z*: 5^s. + 4 μ .
epP·Z' 12 48
isP·Z' 12 59
iS·E 20 12
esS·NE 21 08
e·E 21 53
L·NE 35
 Δ = 60°. *h* = 100 km. Kamchatka.

7 *eP·Z'* 0 35 22
ipP·Z' 36 00
 Δ = 86°. *h* = 150 km. Peru-Brazil border.

7 *iP·Z'* 2 30 21
 Δ = 65°. Japan.

9 *e·Z'* 1 21.5

9 *iP·Z'* 14 15 15
i·N 15 27
iS·NE 15 50
M·ZNE 16 *Z*: 8^s. 20 μ , *N*: 12^s. 90 μ , *E*: 10^s. 25 μ .
 Δ = 3°. Jan Mayen region.

9 *iP·Z'* 20 56 40
 Δ = 82°. Ryukyu Islands.

10 *iP·Z'* 8 11 06
 Δ = 81°. Ryukyu Islands.

11 *eP·Z'* 1 01 29
eS·NE 01 57

11 *eP·Z'* 1 16 57
eS·N 17 28

Scoresbysund 1954

May				May			
11	$iP \cdot Z'$	4h29m35s		20	$e(PKP2) \cdot Z'$	2h37m28s	
	$eL \cdot N$	32 57			$\Delta = 163^\circ$.	Southern Ocean.	
	$\Delta = 12^\circ$.	Arctic Ocean.					
11	$e \cdot Z'$	11 08.7		20	$e(P) \cdot Z'$	3 40 56	
	$e \cdot Z'$	09 27			$(L) \cdot Z'$	41 01	
13	$iP \cdot Z'Z$	14 57 39	$Z: 5^s. 4 \mu.$	21	$iP \cdot Z'$	5 21 53	
	$ipP \cdot ZE$	57 57			$e \cdot N$	29 22	
	$eS \cdot E$	15 06 37		21	$eP \cdot Z'$	16 22 13	
	$i \cdot NE$	06 42			$ePP \cdot E$	24.2	
	$i \cdot Z$	06 54			$eS \cdot NE$	29.4	
	$e \cdot N$	07 04			$eSS \cdot E$	32.3	
	$e \cdot NE$	07 40			$L \cdot NE$	37	
	$L \cdot NE$	20			$\Delta = 50^\circ$.	Alaska Peninsula.	
	$\Delta = 69^\circ$.	$h = 100$ km.	Mexico.				
14	$iP \cdot Z'ZNE$	22 50 30	$Z: 5^s. - 10 \mu.$	23	$iP \cdot Z'$	4 20 46	
	$ipP \cdot ZN$	51 27			$epP \cdot Z'$	21 21	
	$i \cdot Z'$	51 32			$eS \cdot E$	29.2	
	$isP \cdot Z$	51 55			$L \cdot E$	41	
	$i \cdot Z'N$	51 57			$\Delta = 63^\circ$.	$h = 150$ km.	Kurile Islands.
	$iS \cdot E$	59 37	$10^s. 25 \mu.$				
	$i \cdot N$	59 41	$8^s. 8 \mu.$	23	$eP \cdot Z'$	7 10 44	
	$i \cdot E$	23 00 17			$L \cdot E$	46	
	$i \cdot N$	00 42			$\Delta = 103^\circ$.	Celebes Sea.	
	$esS \cdot NE$	01 17					
	$i \cdot E$	02 07		24	$eP \cdot Z'$	0 02 49	
	$eSS \cdot N$	04 12			$L \cdot NE$	24	
	$SSS \cdot N$	07.5			$\Delta = 60^\circ$.	California.	
	$\Delta = 72^\circ$.	$h = 250$ km.	Japan.				
15	$eP \cdot Z'$	12 32 26		24	$eP \cdot Z'$	7 38 57	very small.
	$eS \cdot NE$	38.8			$e(pP) \cdot Z'$	39 14	
	$eSSS \cdot N$	42.1			$L \cdot NE$	8 01	
	$L \cdot NE$	45			$\Delta = 62^\circ$.	Kurile Islands.	
	$\Delta = 42^\circ$.	Greece.					
17	$iP \cdot Z'$	17 08 50	very small.	25	$eP \cdot Z'Z$	22 10 58	
	$iS \cdot Z'$	11 05			$ePP \cdot NE$	12 29	
	$eL \cdot Z'N$	12 15			$eS \cdot N$	16.9	
	$eL \cdot Z$	12.3			$eSSS \cdot NE$	19.9	
					$L \cdot N$	26	
					$\Delta = 39^\circ$.	Greece.	
18	$eP \cdot Z'$	5 23 59		26	$eP \cdot Z'Z$	1 53 02	
	$\Delta = 88^\circ$.	Peru.			$eS \cdot NE$	2 01 11	
					$L \cdot NE$	12	
19	$L \cdot NE$	9 50			$\Delta = 58^\circ$.	Kamchatka.	
19	$i \cdot Z'$	10 02 55		26	$eP \cdot Z'$	19 07 46	
					$eS \cdot E$	16 23	
					$L \cdot E$	29	
					$\Delta = 62^\circ$.	Kurile Islands.	
19	$ePS \cdot NE$	23 36.8		27	$eP \cdot Z'$	7 01 59	
	$eSS \cdot NE$	43.1			$\Delta = 77^\circ$.	Japan.	
	$L \cdot NE$	24 01					
	$\Delta = 114^\circ$.	New Britain.					

Scoresbysund 1954

May

27 *eP·Z'ZNE* 14^h28^m00^s
e(S)·NE 28 13
M·NE 28.6 N: 10^s. 9 μ , E: 10^s. 8 μ .
M·NE 29.6 N: 5^s. 8 μ , E: 7^s. 10 μ .
 $\Delta = 1^\circ$. North of Iceland.

27 *e·Z'* 14 50.8
Aftershock?

28 *eP·Z'* 7 50 25
 $\Delta = 39^\circ$. Greece.

28 *ePKP·Z'* 13 41 30
e(PP)·Z' 44 26
 $\Delta = 130^\circ$. Fiji Islands region.

29 *iPKP·Z'* 5 55 25
ipPKP·Z' 57 21
eSS·N 6 13.6
 $\Delta = 125^\circ$. $h = 550$ km. Fiji Islands.

29 *ePKP·Z'* 22 40 16
 $\Delta = 134^\circ$. Kermadec Islands region.

30 *e·Z'* 5 31 19

31 *ePP·Z'ZNE* 16 08 13
iPPP·Z 10 38
eSKS·NE 13 58
ePS·NE 17 22
ePPS·NE 18 46
eSS·NE 23 45
eSSS·NE 28.1
 $\Delta = 113^\circ$. Flores Sea.

June

4 *eP·Z'* 0 55 57
 $\Delta = 65^\circ$. Kurile Islands.

4 *e·Z'* 2 23.3

4 *iP·Z'Z* 7 03 12 7^s. + 6 μ .
ePP·Z 06 29
iSKS·N 13 39
eSS·N 19 19
L·N 30
M·N 41 20^s. 70 μ .
 $\Delta = 84^\circ$. Galapagos Islands.

4 *eP·Z'* 16 12 32
eS·N 21 14
eSS·N 25.0
L·N 33
 $\Delta = 65^\circ$. Gulf of California.

June

4 *eP·Z'* 16^h47^m16^s
 $\Delta = 62^\circ$. Kurile Islands.

4 *iPKP·Z'* 17 16 15
 $\Delta = 138^\circ$. Kermadec Islands.

4 *L·NE* 21 15

5 *iP·Z'* 1 59 37
L·NE 2 22
 $\Delta = 69^\circ$. Mexico.

5 *iP·Z'* 13 25 50
 $\Delta = 73^\circ$. Japan.

5 *eP·Z'* 14 12 56
 $\Delta = 39^\circ$. Greece.

6 *eP·Z'* 17 05 21
ePKP·Z'ZN 09 13
ePP·N 09 48
ePPP·Z 12 21
e·N 15 37
eSKS·E 16 00
iSKKS·NE 17 00
iPS·NE 19 25
eSS·NE 25.7
iSSS·E 29 56
L·NE 41
 $\Delta = 111^\circ$. New Guinea.

6 *eP·Z'* 22 10 33
e(pP)·Z' 10 35
eS·E 20 13
 $\Delta = 75^\circ$. Japan.

7 *eP·Z'* 7 49 28
e(S)·N 49 51
M·NE 51 6^s. 2 μ .

7 *eP·Z'* 8 11 45
(L)·NE 12.6

7 *eP·Z'* 10 29 33
epP·Z' 31 23
ePKP·Z' 33 25
ePP·ZN 34 20
i·ZE 36 26 —
eSKS·N 39 21
i·N 39 27
iSKKS·NE 40 36
i(pSKS)·E 41 22
isSKS·N 42 46
eSP·N 43 18
iPS·NE 44 01
 $\Delta = 112^\circ$. $h = 450$ km. New Britain.

Scoresbysund 1954

June				June			
8	L·NE	17 ^h 17 ^m		18	eS·N	2 ^h 17.8 ^m	
					e(MSS)·N	21.8	
10	eP·Z'N	4 46 58			L·NE	28	
	i·Z'	47 01			Δ = 49°. Kodiak Island.		
	eS·N	52 52		18	ePP·E	18 13.5	
	L·N	57			eSKS·NE	19.6	
	Δ = 39°. North Atlantic Ocean.				L·NE	51	
10	ePKP·Z'	18 54 39			Δ = 107°. Sunda Strait.		
	i·Z'	54 41		19	iP·Z'	2 08 28	
	ePP·Z'	56 40			eS·NE	18 13	
	ipPKP·Z'	57 27			L·NE	37	
	iSKP·Z'	57 43			Δ = 77°. Japan.		
	iSS·NE	19 13 02		19	L·NE	22 42	
	Δ = 126°. h = 750 km. Fiji Islands.			21	eP·Z'	2 02 13	
10	iP·Z'	22 49 24	—		ipP·Z'Z	02 41	
	iS·NE	58 54			eSKS·N	12 38	
	Δ = 79°. h = 400 km. Japan.				i·E	12 41	
10	iP·Z'E	23 35 14			eS·NE	13 32	
	eS·NE	35 53			esS·NE	14 56	
	M·NE	36	10 ^s . 5 μ.		Δ = 100°. h = 150 km. Northern Chile.		
	Jan Mayen.			21	eP·Z'	14 34 13	
11	iP·Z'N	17 05 30			L·E	55	
	ePPP·N	08 52			Δ = 55°. Kamchatka.		
	eS·NE	13.4		21	L·E	18 42	
	Δ = 57°. Aleutian Islands.			25	eP·Z'	5 22 32	
12	iPKP·Z'	5 53 16			eL·Z	24.9	
	epPKP·Z'	55 12			No H-records. Δ = 10°. Arctic Ocean.		
	Δ = 126°. h = 550 km. Fiji Islands.			25	iP·Z'	23 34 40	
14	iPKP·Z'	16 37 57			Δ = 80°. h = 500 km. Japan.		
	ePKS·N	41.4		26	eP·Z'	12 02 54	
	Δ = 130°. Sandwich Group.				Δ = 63°. Kurile Islands.		
15	iP·Z'	13 41 46		28	ePKP·Z'	5 17 48	
	Δ = 61°. h = 500 km. Sea of Okhotsk.				e·E	25.4	
15	iP·Z'ZNE	13 42 20	Z'Z: —.		e·NE	34 38	
	ipP·Z'Z	42 50			e·E	47.6	
	eSKS·N	52 37			L·NE	6.1	
	e(S)·E	52 40			Δ = 153°. Antarctic Ocean.		
	e(sS)·N	53 26		30	eP·Z'E	13 16 00	
	e·E	54 20			e·Z'	16 12	
	eSS·NE	58 18			e·N	16 18	
	Δ = 84°. h = 100 km. Peru.				e·Z'	16 35	
17	iP·Z'ZNE	1 51 12	Z'Z: —.		M·NE	17	7 ^s . 4 μ.
	ePP·ZNE	53 11			Jan Mayen?		
	iS·NE	58 17		30	eP·Z'	13 38 35	
	i·E	58 33			iS·NE	48 17	
	eScS·E	2 01 08			eSS·N	52 53	
	eSS·N	01 49			L·NE	14 02	
	L·NE	06			Δ = 74°. Ethiopia.		
	Δ = 49°. Kodiak Island.			30	L·NE	15 53	
17	L·NE	19 05		30	iP·Z'	22 18.5	
					L·NE	20	

Scoresbysund 1954

July

1	<i>iP·Z'</i>	5 ^h 36 ^m 27 ^s	
	<i>L·E</i>	6 08	
	$\Delta = 83^\circ$. Formosa.		
2	<i>iP·Z'Z</i>	2 58 26	+
	<i>iPcP·Z'</i>	58 32	
	<i>iPP·NE</i>	3 02 14	
	<i>i·Z</i>	02 19	
	<i>i·NE</i>	05 56	
	<i>iSKS·NE</i>	09 03	
	<i>ePS·E</i>	11 06	
	<i>eSS·NE</i>	16 08	
	<i>L·NE</i>	3.5	
	$\Delta = 94^\circ$. Philippine Islands.		
3	<i>e·Z'</i>	0 32 59	
3	<i>eP·Z'</i>	0 45 14	
	<i>L·NE</i>	1 18	
	$\Delta = 82^\circ$. Belgian Congo.		
3	<i>eP·Z'</i>	21 27.8	
	<i>eSKS·NE</i>	38 11	
	<i>eSS</i>	44.0	
	<i>L·NE</i>	22 01	
	$\Delta = 86^\circ$. Philippine Islands.		
3	<i>eP·Z'</i>	22 05 06	
	$\Delta = 83^\circ$. Hawaii.		
3	<i>iP·Z'Z</i>	22 45 42	$Z': -, Z: +.$
	<i>e(PKP)·Z'Z</i>	49.0	
	<i>iPP·Z'Z</i>	50 12	+
	<i>eSKS·NE</i>	56 20	
	<i>eS·N</i>	57 41	
	<i>L·NE</i>	23 24	
	<i>M</i>	41	23 ^s . <i>N</i> : 12 μ , <i>E</i> : 30 μ .
	$\Delta = 107^\circ$. <i>h</i> = 100 km. Java.		
5	<i>iP·Z'Z</i>	14 02 17	-
	<i>eS·N</i>	10 24	
	$\Delta = 59^\circ$. Kamchatka.		
6	<i>ePP·NE</i>	4 19.6	
	<i>eSS·NE</i>	35.4	
	$\Delta = 112^\circ$. New Britain.		
6	<i>iP·Z'Z</i>	8 15 04	5 ^s . + 8 μ .
	<i>ipP·Z'</i>	15 15	
	<i>isP·Z'</i>	15 26	
	<i>ePP·N</i>	17 31	
	<i>ePPP·N</i>	18 44	
	<i>iS·NE</i>	23 37	
	<i>iScS·E</i>	25 00	
	<i>i·N</i>	25 11	
	<i>M·E</i>	36	25 ^s . 20 μ .
	<i>M·E</i>	43	20 ^s . 25 μ .
	$\Delta = 63^\circ$. <i>h</i> = 100 km. Kurile Islands.		

July

6	<i>eP·Z'</i>	8 ^h 31 ^m 57 ^s	
	$\Delta = 63^\circ$. Kurile Islands.		
6	<i>e·Z'Z</i>	8 44.0	
6	<i>eP·Z'</i>	9 05 08	in the time-break.
	$\Delta = 63^\circ$. Kurile Islands.		
6	<i>eP·Z'Z</i>	10 24 38	
	$\Delta = 63^\circ$. Kurile Islands.		
6	<i>(e)·Z'Z</i>	11 22 08	
6	<i>iP·Z'Z</i>	11 22 54	$Z': +, Z: -.$
	<i>i·Z'N</i>	23 06	
	<i>eS·NE</i>	30 44	
	<i>L·NE</i>	39	
	<i>M·N</i>	44	15 ^s . 20 μ .
	<i>M·E</i>	46	14 ^s . 20 μ .
	$\Delta = 56^\circ$. Nevada.		
6	<i>eP·Z'</i>	15 49 43	
	<i>L·NE</i>	54.7	
	$\Delta = 11^\circ$. Arctic Ocean.		
6	<i>eP·Z'Z</i>	22 17 18	
	<i>i·Z'</i>	17 21	
	<i>(i)S·NE</i>	25 08	in the time-break.
	<i>L·NE</i>	34	
	<i>M·NE</i>	37	17 ^s . <i>N</i> : 15 μ , <i>E</i> : 12 μ .
	$\Delta = 56^\circ$. Nevada.		
8	<i>L·NE</i>	2 43	
8	<i>e·Z'</i>	17 08.3	
8	<i>L·NE</i>	20.1	
9	<i>L·NE</i>	12 51	
9	<i>eS·E</i>	15 58.0	
	<i>L·NE</i>	16 16	
	$\Delta = 66^\circ$. Japan.		
10	<i>L·NE</i>	17.0	
10	<i>L·NE</i>	19 27	
10	<i>iP·Z'Z</i>	23 06 21	$Z': +.$
	<i>eS·N</i>	14 05	
	<i>eScS·N</i>	15 27	
	$\Delta = 56^\circ$. <i>h</i> = 200 km. Hindu Kush.		
11	<i>L·NE</i>	0 32.6	
11	<i>L·NE</i>	0 39.8	

Scoresbysund 1954

July

11	<i>L</i> · <i>NE</i>	5 ^h 22 ^m	
12	<i>eP</i> · <i>Z'</i>	17 42 45	
	<i>eS</i> · <i>E</i>	51 21	
	<i>eScS</i> · <i>E</i>	52 40	
	<i>L</i> · <i>NE</i>	18 03	
	$\Delta = 64^\circ$. Kurile Islands.		
12	<i>eP</i> · <i>Z'</i>	22 05 36	
	$\Delta = 64^\circ$. Kurile Islands.		
13	<i>ePP</i> · <i>Z</i>	8 24.1	
	<i>L</i> · <i>E</i>	8.9	
	$\Delta = 111^\circ$. New Britain.		
15	<i>L</i> · <i>NE</i>	0.9	
16	<i>L</i> · <i>NE</i>	09 44.5	
16	<i>L</i> · <i>NE</i>	14 18	
18	<i>L</i> · <i>NE</i>	1 34	
18	<i>iP</i> · <i>Z'Z</i>	6 44 07	<i>Z</i> : +.
	<i>ePcP</i> · <i>Z'</i>	45 11	
	<i>eS</i> · <i>E</i>	51.8	
	<i>L</i> · <i>NE</i>	59	
	$\Delta = 55^\circ$. Kamchatka.		
18	(<i>iP</i> · <i>Z'Z</i>	9 19 09	in the time-break.
	<i>iPP</i> · <i>ZN</i>	21 55	
	<i>iS</i> · <i>NE</i>	28 36	
	<i>i</i> · <i>NE</i>	28 59	
	<i>e</i> · <i>E</i>	29 42	
	<i>L</i> · <i>NE</i>	43	
	$\Delta = 73^\circ$. Japan.		
23	<i>ePP</i> · <i>N</i>	4 52 00	
	<i>eSKS</i> · <i>N</i>	58 44	
	<i>L</i> · <i>N</i>	5 24	
	$\Delta = 107^\circ$. Chile.		
No recording July 23—Aug. 1.			

August

3	<i>eP</i> · <i>Z</i>	18 25 43	
	<i>ePP</i> · <i>ZE</i>	27 13	
	<i>eS</i> · <i>NE</i>	31 39	
	<i>eSS</i> · <i>NE</i>	34.3	
	<i>L</i> · <i>NE</i>	38	
	$\Delta = 39^\circ$. Aegean Sea.		
4	<i>L</i> · <i>NE</i>	14 18	
4	<i>L</i> · <i>NE</i>	23 42	
5	<i>L</i> · <i>E</i>	5 59	

August

5	<i>eP</i> · <i>Z'Z</i>	8 ^h 59 ^m 36 ^s	<i>Z</i> : +.
	<i>ePP</i> · <i>E</i>	9 01 43	
	<i>e</i> · <i>ZNE</i>	03 18	
	<i>iS</i> · <i>NE</i>	07 36	
	<i>eSS</i> · <i>NE</i>	11.3	
	<i>eSSS</i> · <i>E</i>	13.1	
	<i>L</i> · <i>NE</i>	17	
	$\Delta = 57^\circ$. Aleutian Islands.		
6	<i>L</i> · <i>NE</i>	0 42	
6	<i>iP</i> · <i>Z'</i>	11 41 21	
	$\Delta = 41^\circ$. Greece.		
6	<i>iP</i> · <i>Z'</i>	16 31 12	
	<i>eS</i> · <i>NE</i>	40 34	
	<i>eScS</i> · <i>NE</i>	41 27	
	<i>L</i> · <i>NE</i>	53	
	$\Delta = 72^\circ$. Mid Atlantic Ocean.		
9	<i>iP</i> · <i>Z'</i>	19 26 31	+
	<i>ipP</i> · <i>Z'</i>	26 39	-
	<i>iS</i> · <i>NE</i>	34 21	
	<i>isS</i> · <i>E</i>	34 55	
	<i>i</i> · <i>E</i>	35 14	
	<i>iScS</i> · <i>E</i>	36 21	
	<i>L</i> · <i>NE</i>	43	
	$\Delta = 57^\circ$. <i>h</i> = 60 km. Kamchatka.		
10	<i>i</i> · <i>Z'</i>	22 49 46	
	<i>i</i> · <i>Z'</i>	49 53	
	<i>i</i> · <i>Z'</i>	49 58	
	Near quake.		
13	<i>ePS</i> · <i>E</i>	0 10 08	
	<i>ePPS</i> · <i>E</i>	11 08	
	<i>L</i> · <i>NE</i>	32	
	$\Delta = 103^\circ$. Borneo.		
13	<i>L</i> · <i>NE</i>	1 06	
14	<i>L</i> · <i>NE</i>	2 10	
14	<i>eSKS</i> · <i>N</i>	23 21 21	
	<i>eSKKS</i> · <i>N</i>	22 20	
	<i>L</i> · <i>NE</i>	23.9	
	$\Delta = 110^\circ$. Molucca Islands.		
17	<i>iP</i> · <i>Z'</i>	7 13 28	
	<i>iL</i> · <i>Z'</i>	13 40	
	Near quake.		

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August

18	<i>iPKP·Z'</i>	5h01m14s	
	<i>epPKP·Z'</i>	01 59	
	<i>ePP·NE</i>	03 46	
	<i>epPP·Z'</i>	04 16	
	<i>i·NE</i>	05 16	
	<i>iSKS·NE</i>	08 12	
	<i>iSKKS·NE</i>	10 04	
	<i>ePSKS·NE</i>	13 56	
	<i>eSS·E</i>	21 27	
$\Delta = 131^\circ$. $h = 150$ km. Tonga Islands.			

Jan Mayen Earthquakes.

The first column gives *P* (most often from *Z'*), the second column *S* (most often from *N* or *E*), and the last column period and amplitude for *M* from *N* or *E*. *Z* was out of order.

20	17h	<i>e</i> 29m13s	<i>e</i> 29m40s	6s. 6 μ
	18	<i>e</i> 50 01	<i>e</i> 50 18	6 3
	19	<i>e</i> 16 50	<i>i</i> 17 26	6 3
	19	<i>e</i> 22 06	<i>e</i> 22 34	6 20
	20	<i>e</i> 10 28	<i>e</i> 11 00	
	20	<i>e</i> 23 51	<i>e</i> 24.3	
	20	<i>i</i> 24 48	<i>i</i> 25 17	6 30
	20			38m: 6 12
	20			43 5 8
	20			48 5 7
	21	<i>e</i> 02.1	<i>e</i> 02 38	5 2
	21	<i>i</i> 05 06	<i>i</i> 05 42	6 10
	21	<i>e</i> 16 29	<i>e</i> 16 56	
	21	<i>e</i> 19 38	<i>e</i> 20 14	5 6
	21	<i>i</i> 24 20		5 4
	21	<i>e</i> 35 46	<i>e</i> 36 18	
	21	<i>e</i> 47 56	<i>i</i> 48 26	5 15
	22	<i>e</i> 03 25	<i>i</i> 03 58	
	22	<i>i</i> 09 44	<i>i</i> 10 12	6 24
	22	<i>e</i> 20 26		6 2
	22	<i>e</i> 30 06	<i>e</i> 30 36	6 1
	22	<i>e</i> 36 49		
	22		<i>e</i> 39.6	5 5
	22	<i>e</i> 47 14	<i>e</i> 47 50	5 2
	22	<i>e</i> 51 39	<i>e</i> 52 01	6 4
	22	<i>i</i> 59 51	<i>i</i> 60 14	5 24
	23	<i>e</i> 33 53		
	23	<i>e</i> 35 56	<i>i</i> 36 41	
	23	<i>e</i> 39 11	<i>e</i> 39 43	4 3
	23	<i>e</i> 48 16		
	23	<i>e</i> 51 16	<i>e</i> 51 43	
	23	<i>e</i> 58 03	<i>e</i> 58.6	
21	0	<i>e</i> 03 04	<i>i</i> 03 32	6 3
	0	<i>e</i> 11 05	<i>e</i> 11 31	
	0	<i>i</i> 20 27	<i>i</i> 21 00	6 4
	0	<i>e</i> 26 09	<i>i</i> 26 41	6 25
	0			54 6 4
	0		<i>i</i> 59 47	6 4
	1	<i>e</i> 10 01		

August

21	1h	<i>e</i> 10m56s	<i>i</i> 11m26s	5s. 3 μ
	1	<i>i</i> 20 21	<i>i</i> 20 41	6 3
	1	<i>e</i> 36 16	<i>e</i> 36 51	5 4
	3	<i>e</i> 02 26	<i>e</i> 03 01	7 2
	4	<i>e</i> 01 42		
	4	<i>i</i> 13 51	<i>e</i> 14 21	6 10
	5	<i>e</i> 14 01	<i>i</i> 14 31	5 2
	6	<i>e</i> 17 51	<i>e</i> 18 21	
	6	<i>e</i> 20 09	<i>e</i> 20 39	6 5
	6	<i>e</i> 42 10	<i>i</i> 42 41	6 2
	6	<i>e</i> 59 56	<i>e</i> 60 27	6 3
	7	<i>i</i> 20 25		6 40
	7	<i>i</i> 37 41		7 3
	7	<i>e</i> 53 59		6 1
	8	<i>e</i> 06 05		
	8	<i>e</i> 28 46		
	8	<i>e</i> 43 25		6 2
	8	<i>e</i> 51 06	<i>e</i> 51 36	6 7
	9	<i>e</i> 27 00		
	9	<i>i</i> 49 23		5 3
	9	<i>e</i> 56 42		5 2
	10	<i>e</i> 22 44		5 1
	10	<i>e</i> 48 21	<i>e</i> 48 51	5 6
	11	<i>e</i> 31 25		
	11	<i>e</i> 40 24	<i>e</i> 40 48	5 2
	12	<i>e</i> 10 41	<i>e</i> 11 11	5 1
	12	<i>e</i> 16 36		
	12	<i>e</i> 30 36		
	12	<i>e</i> 36 34		
	12	<i>e</i> 51 02	<i>e</i> 51 32	5 6
	12	<i>e</i> 58 55		
	13	<i>i</i> 05 41	<i>i</i> 06 09	5 24
	13	<i>e</i> 50 59	<i>e</i> 51 28	6 2
	14	<i>e</i> 01 02	<i>i</i> 01 26	6 8
	15	<i>i</i> 57 58		
	16	<i>e</i> 53 11		
	17	<i>i</i> 00 30		
	17	<i>i</i> 12 01	<i>e</i> 12 28	6 4
	17	<i>i</i> 40 42	<i>e</i> 41 11	6 24
	18	<i>e</i> 45 37		
	19	<i>e</i> 08 22		
	20		<i>e</i> 35 28	7 5
	20	<i>e</i> 45 11	<i>e</i> 45 41	6 3
	21	<i>e</i> 23 08	<i>i</i> 23 46	5 3
	21	<i>e</i> 31 55		6 1
	21	<i>e</i> 47 51	<i>e</i> 48 11	
	22	<i>e</i> 08 23	<i>e</i> 09 06	6 1
	22	<i>i</i> 51 31	<i>i</i> 52 08	6 40
22	0	<i>e</i> 19 53	<i>e</i> 20 13	5 2
	1	<i>i</i> 07 26	<i>e</i> 07 56	6 4
	2	<i>i</i> 52 18	<i>i</i> 52 48	6 25
No recording 4h35m—20h30m.				
	23	<i>e</i> 19 56	<i>e</i> 20 31	5 2
	23	<i>e</i> 41 23	<i>e</i> 41 50	
	23	<i>e</i> 46 53		
	23	<i>i</i> 52 46	<i>i</i> 53 16	6 7

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August				
23	0h	e 53 ^m 26 ^s		
	1	e 45.0		6 ^s . 1 μ
	2	e 05 16	e 05 ^m 47 ^s	5 1
	2	e 23 48		
	2	e 30 45		
	3	e 02 15		
	3	e 37 21	e 37 42	6 1
	3	e 44 07		
	4	e 18.1	e 18 31	6 1
	5	i 17 12	i 17 44	6 1
	5	e 41 53	i 42 29	6 1
	7	i 42 18		6 1
	9	e 17 43		7 1
	9	i 33 17	i 33 47	6 14
	11	e 06.2		
	11	i 13 26		
	11	e 16.3		
	11	e 27 03	i 27 24	7 2
	11	e 30.9		
	11	i 39 54	i 40 24	5 15
	11	e 47.4		
	12	e 06.1		6 2
	12	e 59 31		
	13	e 49 31		
	14	i 11 43	e 12 11	5 3
	14	e 50 47	e 51 22	5 2
	21	e 24 49		5 1
	23	e 52 18		
24	1	e 58 01	e 58 34	
	2	e 00.1		
	124 shocks from Jan Mayen.			
24	iP·Z'E	6h01m07s		
	iS·E	09 05		
	eSS·E	12 45		
	Z' and E only. $\Delta = 58^\circ$. Nevada, U.S.A.			
24	iP·Z'	6 19 46		
	i·Z'	19 48		
	M	21	Ampl.: 9 cm on the record.	
	Jan Mayen.			
24	e·Z'	10 15 50		
	e·Z'	12 27.6		
25	e·Z'	4 55 51	M: 6 ^s . 2 μ .	
	i·Z'	7 02 31		
	i·Z'	02 46		
	e·Z'	14 34.4		
	i·Z'	34 49		
	e·Z'	15 36 47		
	e·Z'	18 43 30		
	7 minor shocks from Jan Mayen.			

August.			
25	eE	20 ^h 28 ^m 01 ^s	M: 6 ^s . 2 μ .
	eZ'	23 56 19	
26	iZ'	3 14 47	
	eZ'E	3 40 54	
	iZ'	5 32 33	
	eE	5 54.0	
	eE	60 35	
	iZ'	6 01 11	
	eZ'	6 08 38	
	eE	6 30 13	
	eZ'E	6 40 49	
	eZ'E	7 01 25	
	iZ'N	01 52	
	iZ'	16 59 19	
	eZ'	19 39.9	
	eZ'	20 55 40	
	eN	21 10.3	
	eZ'	21 19 05	
	eN	19 23	
	eE	21 31 50	
	eE	32 23	
	eZ'	21 48 47	
	eE	21 53.6	
	eZ'	54 11	
	eZ'	22 05.1	
27	eZ'	11 00 58	
	21 minor shocks from Jan Mayen.		
	455		
27	iP·Z'N	11 07 30	
	iSKS·NE	17 53	
	iS·N	18 13	
	L·NE	42	
	M	45	20 ^s . 4 μ .
	$\Delta = 85^\circ$. Bonin Islands.		
27	eZ'	11 59 12	
	eZ'	12 08 17	
	eN	08 52	
	iZ'NE	12 22 06	M: 6 ^s . 35 μ .
	eE	16 37 54	
	eZ'	17 49 17	
	eZ'N	49 53	
	e·E	18 55 49	
	e·N	56.3	
	6 shocks from Jan Mayen.		
28	eZ'	2 38.2	
	Jan Mayen?		
28	eP·Z'	9 52 51	
	iS·Z'	53 19	
	M·NE	54	6 ^s . 3 μ .
	Jan Mayen.		

Scoresbysund 1954

August				September			
28	<i>iP·Z'</i>	10 ^h 12 ^m 49 ^s		4	<i>iP·Z'</i>	6 ^h 56 ^m 22 ^s	
	$\Delta = 72^\circ$. Japan.				$\Delta = 69^\circ$. Nepal.		
28	<i>eP·Z'</i>	10 40 20		4	<i>eP·Z'</i>	9 06 07	in the time-break.
	<i>eS·Z'</i>	40 57			<i>e·E</i>	16 47	
	<i>M·NE</i>	42	5 ^s . 3 μ .		<i>iPS·E</i>	17 13	
	Jan Mayen.				<i>L·NE</i>	38	
	$\Delta = 85^\circ$. Formosa.				$\Delta = 85^\circ$. Formosa.		
28	<i>eP·Z'</i>	12 58 31		4	<i>e·Z'</i>	13 27 47	
	<i>eS·Z'</i>	59 05			<i>e·N</i>	28.2	
	<i>M·NE</i>	13 00	5 ^s . 3 μ .				
	Jan Mayen.			4	<i>L·NE</i>	14 11	
28	<i>eP·Z'</i>	20 10 30		5	<i>ePKP·Z</i>	8 04 46	
	<i>eS·Z'</i>	20 10 58			<i>ePP·N</i>	06 46	
	<i>M·NE</i>	11	7 ^s . 1 μ .		<i>ePS·E</i>	16 44	
28	<i>iPKP·Z'</i>	23 23 40			<i>ePPP2·N</i>	21 26	
	$\Delta = 132^\circ$. Drake Street.				<i>iSS·E</i>	24 03	
29	<i>L·NE</i>	4 11			<i>L·NE</i>	44	
30	<i>iP·Z'</i>	8 08 05			$\Delta = 127^\circ$. Fiji Islands region.		
	<i>ePcP·Z'</i>	08 38		6	<i>e(SKS)·NE</i>	17 10 13	
	<i>L·NE</i>	32			<i>L·NE</i>	32	
	$\Delta = 66^\circ$. Kurile Islands.				$\Delta = 85^\circ$. Philippine Islands.		
31	<i>eZ'</i>	3 39 12		6	<i>iP·Z'ZN</i>	18 40 44	
31	<i>eP·Z'</i>	22 30 11			<i>ePP·N</i>	42 56	
	<i>eS·NE</i>	37 58			<i>ePPP·N</i>	44 34	
	<i>iSS·E</i>	41 51			<i>iS·NE</i>	48 49	
	<i>L·NE</i>	47			<i>iScS·NE</i>	50 52	
	<i>M·NE</i>	51	15 ^s . N: 18 μ , E: 14 μ .		<i>i·E</i>	55 51	
	$\Delta = 56^\circ$. Nevada, U.S.A.				<i>L·NE</i>	19 00	
					$\Delta = 58^\circ$. Kamchatka.		
September				7	<i>eP·Z'</i>	0 24 27	
1	<i>eP·Z'</i>	5 28 23			<i>eSKS·N</i>	34 48	
	<i>eS·N</i>	36 14			$\Delta = 85^\circ$. Philippine Islands.		
	<i>L·NE</i>	45		7	<i>eSKS·NE</i>	0 31 26	
	$\Delta = 56^\circ$. Nevada, U.S.A.				$\Delta = 85^\circ$. Philippine Islands.		
2	<i>e·Z'</i>	14 26 04		7	<i>iP·Z'Z</i>	0 47 52	+
	<i>e·N</i>	26 31			<i>eSKS·NE</i>	58 31	
	(<i>L</i>)· <i>N</i>	27			$\Delta = 85^\circ$. Philippine Islands.		
4	<i>i·Z'</i>	1 59 59		7	<i>e·Z'</i>	9 30 34	
4	<i>ePP·Z'</i>	3 47 47		9	<i>eP·Z'</i>	1 11 47	
	<i>eSS·E</i>	4 03 09			<i>iP·Z'</i>	11 50	
	<i>L·NE</i>	28			<i>ePP·NE</i>	13 05	
	$\Delta = 112^\circ$. New Guinea.				<i>iPPP·N</i>	13 19	
4	<i>eP·Z'</i>	6 54 53			<i>iS·NE</i>	17 37	
	$\Delta = 69^\circ$. Nepal.				<i>eSS·NE</i>	19 50	
					<i>L·NE</i>	22.5	
					<i>M·NE</i>	25	20 ^s . N: 160 μ , E: 100 μ .
					$\Delta = 37^\circ$. Orléansville, Algeria.		

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September

9	<i>ePPP·NE</i>	9h37.4m	
	<i>L·NE</i>	47	
	$\Delta = 37^\circ$. Orléansville.		
9	<i>eP·Z'</i>	18 17 41	
	<i>eS·N</i>	19.7	
	<i>M·E</i>	22.0	
	$\Delta = 10^\circ$. SW of Svalbard.		
9	<i>eP·Z'</i>	18 29 45	
	<i>eS·N</i>	31.6	
	<i>L·NE</i>	32.2	
	$\Delta = 10^\circ$. SW of Svalbard.		
10	<i>eP·Z'</i>	5 51 12	
	<i>i·Z'</i>	51 20	
	<i>iPP·NE</i>	52 40	
	<i>i·E</i>	59 40	
	<i>L·NE</i>	6 02	
	<i>M·NE</i>	07	13 ^s . N: 15 μ , E: 20 μ .
	$\Delta = 37^\circ$. Orléansville.		
12	<i>iP·Z'</i>	7 54 55	
	<i>eS·E</i>	8 03 58	
	<i>eScS·N</i>	04 58	
	<i>L·E</i>	16	
	$\Delta = 68^\circ$. Japan.		
13	<i>iPKP·Z'</i>	2 28 52	+
	<i>ePP·E</i>	30 35	
	<i>e·N</i>	30 49	
	<i>ipPP·N</i>	31 38	
	<i>iPKS·NE</i>	32 15	
	<i>e·E</i>	38 49	
	<i>iSS·NE</i>	47 50	
	<i>isSS·E</i>	49 01	
	<i>e·E</i>	50 30	
	$\Delta = 128^\circ$. $h = 150$ km. Tonga Islands.		
13	<i>eP·Z'</i>	18 25 17	
	<i>eSKS·N</i>	35 37	
	$\Delta = 85^\circ$. Philippine Islands.		
13	<i>iP·Z'</i>	18 31 57	
	<i>eSKS·N</i>	42 23	
	<i>L·NE</i>	19 05	
	$\Delta = 85^\circ$. Philippine Islands.		
14	<i>eP·Z'</i>	1 00 59	
	<i>L·NE</i>	36	
	$\Delta = 85^\circ$. Philippine Islands.		
14	<i>L·NE</i>	14 01	
15	<i>L·NE</i>	13 54	

September

15	<i>iPKP·Z'</i>	18h14m10 ^s	
	<i>ipPKP·Z'</i>	16 07	+
	<i>ePP·E</i>	16 23	
	<i>iPKS·N</i>	17 30	
	<i>i·E</i>	31 25	
	$\Delta = 125^\circ$. $h = 600$ km. Fiji Islands.		
17	<i>iPKP·Z'</i>	11 22 00	-
	<i>epPKP·Z'</i>	23 10	
	<i>iPP·Z'</i>	24 01	
	<i>i·NE</i>	24 09	
	<i>ipPP·N</i>	25 08	
	<i>isPP·N</i>	25 28	
	<i>i·E</i>	25 37	
	<i>i·NE</i>	26 50	
	<i>eSKS·N</i>	28 56	
	<i>isSKS·NE</i>	30 44	
	<i>i·E</i>	32 06	
	<i>i·N</i>	34 13	
	<i>e·E</i>	34 20	
	<i>i·N</i>	37 16	
	<i>iSS·NE</i>	41 08	
	<i>esSS·E</i>	42 50	
	<i>i·E</i>	43 44	
	<i>i·E</i>	45 27	
	$\Delta = 129^\circ$. $h = 250$ km. Tonga Islands region.		
20	<i>eS·E</i>	0 18 07	
	<i>L·E</i>	20	
	$\Delta = 19^\circ$. North Atlantic Ocean.		
20	<i>eSKS·N</i>	1 04 34	
	<i>L·NE</i>	38	
	$\Delta = 107^\circ$. Celebes.		
23	<i>iP·Z'Z</i>	21 53 51	+
	<i>eS·NE</i>	22 02 13	
	<i>iPS·E</i>	02 23	
	<i>iScS·E</i>	03 48	
	<i>L·NE</i>	13	
	$\Delta = 61^\circ$. Kurile Islands region.		
25	<i>L·NE</i>	12 45	

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October

1	<i>ePKP·Z'</i>	3h14m35s	
	<i>iSS·NE</i>	32 33	
	<i>iSSS·NE</i>	36 52	
	<i>L·N</i>	52	
	$\Delta = 120^\circ$. Santa Cruz Islands.		
1	<i>L·NE</i>	7 52	
3	<i>eSS·NE</i>	3 24 19	
	<i>eSSS·NE</i>	28.3	
	<i>L·NE</i>	46	
	$\Delta = 119^\circ$. Santa Cruz Islands.		
3	<i>iP·Z'ZNE</i>	11 26 50	$Z: 5^s. - 8 \mu.$
	<i>ipP·Z'Z</i>	27 14	
	<i>iPP·ZNE</i>	28 44	
	<i>iS·NE</i>	33 19	
	<i>isS·E</i>	33 49	
	<i>iSS·NE</i>	36 46	
	<i>L·NE</i>	40	
	$\Delta = 44^\circ$. $h = 100$ km. Alaska.		
5	<i>eP·Z'</i>	4 30 01	
	$\Delta = 75^\circ$. Japan.		
6	<i>L·NE</i>	8 53	
8	<i>iP·Z'</i>	10 56 47	
	$\Delta = 65^\circ$. Kurile Islands.		
8	<i>e·Z'</i>	17 30 28	
11	<i>i·Z'</i>	23 52 47	$0^s.5.$
	<i>i·Z'</i>	52 53	$1^s.$
	<i>i·Z'</i>	52 56	$2^s.$
	Near shock.		
14	<i>ePKP·Z'</i>	1 53 31	
	<i>ePP·Z'</i>	54 43	
	<i>ePS·N</i>	2 04 21	
	$\Delta = 113^\circ$. Banda Sea.		
16	<i>iPn·Z'</i>	0 28 50	
	<i>iP*·Z'</i>	28 53	
	<i>iPg·Z'</i>	28 58	
	<i>i(S)·Z'</i>	29 25	
	<i>M·ZNE</i>	30	$Z: 6^s. 50 \mu, N: 8^s. 30 \mu, E: 6^s. 30 \mu.$
	$\Delta = 2\frac{1}{2}^\circ$. Jan Mayen.		
16	<i>eP·Z'</i>	1 03 00	
	<i>e(S)·Z'</i>	03 33	
	<i>M·ZNE</i>	04	$Z: 5^s. 13 \mu, N: 8^s. 6 \mu, E: 7^s. 10 \mu.$
	$\Delta = 2\frac{1}{2}^\circ$. Jan Mayen.		
16	<i>e·Z'</i>	1 30 43	
	Jan Mayen?		

October

16	<i>eP·Z'</i>	3h02m27s	
	<i>iS·Z'</i>	03 06	
	<i>M·ZNE</i>	04	$Z: 8^s. 10 \mu, N: 10^s. 6 \mu, E: 8^s. 6 \mu.$
	Jan Mayen?		
16	<i>eP·Z'</i>	20 16 14	
	<i>i·Z'</i>	16 38	
	<i>M·ZNE</i>	17	$Z: 7^s. 30 \mu, N: 8^s. 14 \mu, E: 6^s. 18 \mu.$
	$\Delta = 2\frac{1}{2}^\circ$. Jan Mayen.		
17	<i>eS·N</i>	23 16 14	
	<i>L·N</i>	29	
	$\Delta = 62^\circ$. Lower California.		
19	<i>eP·Z'</i>	17 51 29	in strong microseisms.
	$\Delta = 15^\circ$. North Atlantic Ocean.		
20	<i>iP·Z'</i>	23 53 48	—
	$\Delta = 78^\circ$. Japan.		
21	<i>L·E</i>	1.5	in strong microseisms.
21	<i>L·E</i>	7 27	in strong microseisms.
22	<i>i·Z'</i>	20 37 27	
	Very short period. Seismic?		
24	<i>eP·Z'</i>	9 54 30	
	<i>ePPP·N</i>	58 28	
	<i>eS·N</i>	10 02 58	
	<i>eSS·N</i>	07 13	
	<i>eSSS·N</i>	09.6	
	<i>L·N</i>	14.4	
	$\Delta = 63^\circ$. Lower California.		
25	<i>i·Z'</i>	5 30 19	
25	<i>i·Z'</i>	5 32 41	
26	<i>e·Z'</i>	4 50 41	
26	<i>e·Z'</i>	9 19 12	
28	<i>i·Z'</i>	11 17 41	
	<i>i·Z'</i>	17 46	
29	<i>i·Z'</i>	11 44 41	
	<i>i·Z'</i>	44 46	
29	<i>e·Z'</i>	20 12 58	
29	<i>iP·Z'</i>	21 26 44	very small.
	$\Delta = 6^\circ$. SW of Iceland.		
30	<i>e·Z'</i>	15 48 53	

Scoresbysund 1954

November

1	<i>L·N</i>	0h22m	
1	<i>iP·Z'</i>	21 07 39	very small.
	<i>L·NE</i>	33	
	$\Delta = 70^\circ$.	Guatemala.	
2	<i>ePKP·Z'</i>	8 42 58	
	<i>ePP·NE</i>	43 48	
	<i>ePPP·ZE</i>	46 24	
	<i>eSKS·NE</i>	49 46	
	<i>eSKKS·E</i>	50 52	
	<i>ePS·ZNE</i>	53 19	
	<i>ePPS·NE</i>	54 22	
	<i>eSS·NE</i>	59 34	
	<i>eSSS·NE</i>	9 03 47	
	<i>L·NE</i>	18	
	$\Delta = 113^\circ$.	Sunda Islands.	
2	<i>e·Z'</i>	10 36 21	
	<i>e·Z'</i>	36 40	
5	<i>iP·Z'</i>	21 56 34	
	$\Delta = 57^\circ$.	Kamchatka.	
6	<i>eP·Z'</i>	13 19 44	
	$\Delta = 83^\circ$.	Ryukyu Islands.	
8	<i>i·Z'</i>	4 56 42	
12	<i>eP·Z'</i>	12 37 09	
	<i>eSS·E</i>	49 52	
	<i>eSSS·N</i>	52 31	
	<i>L·NE</i>	56.5	
	<i>M·NE</i>	58	30s. N: 30 μ , E: 15 μ .
	<i>M·NE</i>	13 00	20s. N: 30 μ , E: 15 μ .
	<i>M·NE</i>	02	15s. N: 30 μ , E: 15 μ .
	$\Delta = 62^\circ$.	Lower California.	
15	<i>eP·Z'</i>	11 42 10	
	$\Delta = 75^\circ$.	Japan.	
17	<i>iP·Z'</i>	17 30 16	
	$\Delta = 90^\circ$.	$h = 600$ km. Mariana Islands.	
18	<i>L·NE</i>	5 51	
18	<i>iP·Z'</i>	20 56 11	+
	$\Delta = 70^\circ$.	Japan.	
19	<i>iP·Z'</i>	6 06 04	-
	$\Delta = 67^\circ$.	$h = 600$ km. Japan.	
21	<i>L·NE</i>	8 50	
23	<i>iP·Z'</i>	10 09 30	
	$\Delta = 57^\circ$.	Kamchatka.	

November

23	<i>eP·Z'</i>	10h27m25s	
	$\Delta = 57^\circ$.	Kamchatka.	
23	<i>eP·Z'</i>	13 06 58	
	$\Delta = 38^\circ$.	Mediterranean Sea.	550
23	<i>eP·Z'</i>	21 22 46	
	<i>ipP·Z'</i>	23 00	
	<i>L·NE</i>	42	
	$\Delta = 58^\circ$.	$h = 60$ km. Kamchatka.	
25	<i>iP·Z'</i>	11 26 19	-
	<i>iS·N</i>	34 10	
	<i>i·E</i>	34 20	
	<i>SS·E</i>	38 15	
	<i>M·N</i>	45	20s. 120 μ .
25	<i>iP·Z'</i>	12 15 57	+
	$\Delta = 66^\circ$.	Japan.	
25	<i>eP·Z'</i>	21 00 07	
	$\Delta = 70^\circ$.	Mexico.	
25	<i>iPKP·Z'</i>	21 51 42	-
	<i>iSKP·Z'</i>	54 00	+
	<i>(i)pPKP·Z'</i>	54 07	in the time-break.
	$\Delta = 130^\circ$.	$h = 650$ km. Fiji Islands.	
30	<i>L·NE</i>	20.5	

December

1	<i>i·Z'</i>	2 50 11	
	<i>i·Z'</i>	50 15	
	Very short period.		
1	<i>i·Z'</i>	9 51 22	very short period.
1	<i>i·Z'</i>	12 56 42	
	<i>i·Z'</i>	56 46	
	Very short period.		
3	<i>L·NE</i>	9 16	
4	<i>ePKP·Z'</i>	7 19 08	very small.
	<i>ePS·N</i>	30.0	
	<i>L·NE</i>	53	
	$\Delta = 114^\circ$.	New Britain.	
4	<i>iP·Z'</i>	18 41 49	+
	<i>eS·NE</i>	50 26	
	<i>iPS·NE</i>	50 59	
	<i>iScS·N</i>	51 39	
	<i>L·NE</i>	19 02	
	$\Delta = 64^\circ$.	Trinidad.	

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December

7	<i>iP·Z'</i>	6h30m56s	+
	$\Delta = 53^\circ$.	Alaska.	
9	<i>eP·Z'</i>	14 26 39	very small.
	$\Delta = 94^\circ$.	Peru.	
10	<i>eP·Z'</i>	13 10 58	
	<i>L·NE</i>	30	
	$\Delta = 63^\circ$.	Jamaica.	
11	<i>e·Z'</i>	4 02 25	
11	<i>i·Z'</i>	5 43 25	
11	<i>iP·Z'ZNE</i>	13 01 30	<i>Z</i> : 6s. + 14 μ .
	<i>iS·NE</i>	05 04	
	<i>M·NE</i>	07.5	10s. <i>N</i> : 90 μ , <i>E</i> : 110 μ .
	$\Delta = 20^\circ$.	North Atlantic Ocean.	
16	<i>eP·Z'</i>	11 16 48	
	<i>i·Z'</i>	16 51	
	<i>iS·NE</i>	24 36	
	<i>iScS·N</i>	26 41	
	<i>L·NE</i>	34	
	<i>M</i>	38	17s. <i>N</i> : 200 μ , <i>E</i> : 175 μ .
	$\Delta = 56^\circ$.	Nevada.	
16	<i>eP·Z'</i>	11 21 05	
	<i>i·Z'</i>	21 16	
	$\Delta = 56^\circ$.	Nevada. Conf. previous shock.	
21	<i>iP·Z'</i>	20 06 04	
	<i>iS·N</i>	13 51	
	<i>i·E</i>	14 08	
	<i>eSS·NE</i>	17.7	
	<i>L·NE</i>	24	
	$\Delta = 56^\circ$.	California.	

December

22	<i>e·Z'</i>	12h37m21s	
	<i>e·Z'</i>	38 25	
23	<i>iP·Z'</i>	16 34 52	
	$\Delta = 40^\circ$.	Greece.	
23	<i>e·Z'</i>	19 03 00	
26	<i>eP·Z'</i>	3 52 50	doubtful.
	$\Delta = 78^\circ$.	Japan.	
26	<i>iP·Z'</i>	3 53 44	+
	$\Delta = 78^\circ$.	Japan.	
28	<i>eSKS·N</i>	1 26 18	
	<i>eSKKS·N</i>	27 38	
	<i>ePS·NE</i>	29 51	
	<i>L·NE</i>	55	
	$\Delta = 114^\circ$.	New Britain.	
30	<i>e·Z'</i>	8 33 31	
30	<i>eP·Z'</i>	11 13 48	
	<i>i·Z'</i>	13 54	
	$\Delta = 41^\circ$.	Greece.	
30	<i>iP·Z'</i>	11 41 57	+
	<i>L·NE</i>	58	
	$\Delta = 54^\circ$.	Aleutian Islands.	

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