

## GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

## Bulletin of the seismological station

**N O R D** $\varphi = 81^{\circ}36' N.$      $\lambda = 16^{\circ}41' W.$      $h = 35 \text{ m.}$ 

Lithologic foundation: calcareous greywacke

**Instruments**Willmore.    *Z.*     $T_p = 1 \text{ sec, } T_g = 1/4 \text{ sec.}$     No attenuation.Strobach.    *N* and *E.*     $T = 6 \text{ sec, } \nu = 15:1, V_0 = 500.$     (Belongs to Geophysikalisches Institut, Hamburg.)**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. For *N* and *E* the amplitudes given are single ground amplitudes. For *Z* trace amplitudes are given. + indicates ground motion towards the north, towards the east, or upwards. — indicates the opposite direction.

**Microseismic Readings**

For every group of figures the first one indicates the character of the microseisms. 1 is group microseisms, 2 is continuous microseisms, 3 is irregular or mixed microseisms. Thereafter the single ground amplitude in microns is given, and at last the period of a full oscillation is stated.



January

1	<i>iPn</i> ·ZNE	02 <sup>b</sup> 07 <sup>m</sup> 31 <sup>s</sup>	-
	<i>iP*</i> ·Z	07 33	
	<i>iPg</i> ·Z	07 37	
	<i>iS</i> ·NE	07 59	
	$\Delta = 3^\circ$ . Greenland.		
3	<i>iP</i> ·Z	08 08 05	+
	$\Delta = 48^\circ$ . Turkey.		
5	<i>eP</i> ·Z	05 04 35	
	<i>iPP</i> ·Z	04 43	
	<i>iPPP</i> ·Z	04 45	
	<i>iS</i> ·Z	07 49	
	$\Delta = 18^\circ$ . Baffin Island.		
6	<i>eP</i> ·Z	12 14 05	Faint.
	$\Delta = 46^\circ$ . Fox Islands.		
6	<i>eP</i> ·Z	14 37 14	
	$\Delta = 47^\circ$ . Turkey.		
7	<i>eP</i> ·Z	05 23 19	
	$\Delta = 61^\circ$ . Iran.		
7	<i>eP</i> ·Z	22 30 36	
	$\Delta = 48^\circ$ . Turkey		
8	<i>iP</i> ·Z	01 44 47	+
	<i>iS</i> ·E	53 38	-
	$\Delta = 68^\circ$ . $h = 100$ km. Lesser Antilles.		
8	<i>eP</i> ·Z	16 07 28	
	$\Delta = 88^\circ$ . Pacific Ocean.		
8	<i>e</i> ·Z	20 52 11	
10	<i>i</i> ·Z	18 42 47	
11	<i>iP</i> ·Z	04 36 04	
	$\Delta = 48^\circ$ . Turkey.		
11	<i>i</i> ·Z	05 24 04	
11	<i>iP</i> ·Z	07 33 52	+
	<i>ipP</i> ·Z	34 42	
	$\Delta = 73^\circ$ . $h = 200$ km. Guatemala.		
11	<i>iP</i> ·Z	08 47 14	
	$\Delta = 58^\circ$ . Japan.		
11	<i>i</i> ·Z	20 38 50	
11	<i>i</i> ·Z	21 12 04	
12	<i>ei</i> ·Z	08 44 34	
12	<i>iP</i> ·Z	14 25 47	-
	$\Delta = 55^\circ$ . $h = 100$ km. Japan.		

January

12	<i>i</i> ·Z	21 <sup>b</sup> 28 <sup>m</sup> 07 <sup>s</sup>	
	<i>i</i> ·Z	28 30	
	Near?		
13	<i>eP</i> ·Z	01 28 03	
	$\Delta = 86^\circ$ . Mariana Islands.		
13	<i>eP</i> ·Z	08 45 59	
	$\Delta = 77^\circ$ . $h = 100$ km. Costa Rica.		
13	<i>e</i> ·Z	09 48 34	
	Near?		
14	<i>iP</i> ·Z	06 24 57	
	Near.		
15	<i>ePKP</i> ·Z	21 38 30	
	$\Delta = 124^\circ$ . $h = 500$ km. Fiji Islands.		
16	<i>iP</i> ·Z	01 39 44	+
	<i>iPeP</i> ·Z	41 22	
	$\Delta = 47^\circ$ . Fox Islands.		
16	<i>eP</i> ·Z	05 49 32	
	<i>i</i> ·Z	49 33	
16	<i>eP</i> ·Z	16 58 40	
	$\Delta = 43^\circ$ . Queen Charlotte Islands.		
17	<i>iP</i> ·Z	03 02 42	
	$\Delta = 47^\circ$ . Turkey.		
17	<i>e</i> ·Z	03 27 46	
	Near?		
17	<i>iP</i> ·Z	09 37 21	-
	$\Delta = 87^\circ$ . Mindanao, Philippine Islands.		
17	<i>iP</i> ·Z	22 45 00	
	Near.		
19	<i>eP</i> ·Z	11 01 40	
	Near.		
19	<i>iP</i> ·Z	13 50 28	
	<i>i</i> ·Z	50 30	
	Near.		
22	<i>iP</i> ·ZNE	5 20 38	Z: +
	<i>iS</i> ·NE	28 52	
	<i>L</i> ·NE	38	
	$\Delta = 61^\circ$ . Japan.		
22	<i>i</i> ·Z	20 02 53	
	Near.		

January

23	<i>iP</i> ·Z	3 <sup>b</sup> 20 <sup>m</sup> 46 <sup>s</sup>	
	<i>iS</i> ·Z	22 02	
	<i>i</i> ·Z	22 03	
	$\Delta = 7^\circ$ . SW of Svalbard.		
23	<i>iPn</i> ·Z	18 21 08	
	<i>iP*</i> ·Z	21 12	
	<i>iPg</i> ·Z	21 16	
	<i>eSn</i> ·Z	21 36	
	$\Delta = 2\frac{1}{2}^\circ$ . Greenland Sea.		
24	<i>iP</i> ·Z	5 18 41	+
	<i>i</i> ·Z	18 43	
	$\Delta = 61^\circ$ . $h = 100$ km. Japan.		
24	<i>i</i> ·Z	16 02 51	+
	Near.		
24	<i>iP</i> ·Z	20 03 27	
	<i>iS</i> ·NE	10 06	
	<i>L</i> ·NE	16	
	$\Delta = 45^\circ$ . Azores.		
24	<i>e</i> ·Z	23 10 32	
25	<i>e</i> ·Z	0 02 49	
	<i>e(L)</i> ·Z	03 01	
	Near.		
26	<i>e</i> ·Z	8 57 02	
	<i>e(L)</i> ·Z	57 12	
	Near.		
26	<i>e</i> ·Z	9 57 21	
	<i>e(L)</i> ·Z	57 30	
	Near.		
26	<i>e(P)</i> ·Z	10 25 08	
	<i>e(S)</i> ·Z	25 45	
	$\Delta = 3^\circ$ .		
26	<i>iP</i> ·Z	11 47 14	
	$\Delta = 48^\circ$ . Turkey.		
26	<i>e</i> ·Z	16 49 25	
	<i>e(L)</i> ·Z	49 34	
	Near.		
26	<i>iP</i> ·Z	21 54 24	
	$\Delta = 70^\circ$ . Ryukyu Islands.		
27	<i>eP</i> ·Z	3 37 59	
	<i>i</i> ·Z	38 03	
	<i>L</i> ·NE	41.0	
	$\Delta = 11^\circ$ . Jan Mayen.		
27	<i>e</i> ·Z	12 09 07	
	<i>e(L)</i> ·Z	09 15	

January

29	<i>e</i> ·Z	6 <sup>b</sup> 27 <sup>m</sup> 20 <sup>s</sup>	
	<i>e</i> ·Z	27 44	
	Near.		
29	<i>e</i> ·Z	7 04 33	
	<i>e</i> ·Z	04 56	
	Near.		
29	<i>e</i> ·Z	11 43 27	
	<i>e</i> ·Z	43 51	
	Near.		
29	<i>e</i> ·Z	19 08 06	
	Near.		
29	<i>iP</i> ·Z	23 27 26	
	<i>iS</i> ·N	29 46	
	<i>L</i> ·NE	30.5	
	$\Delta = 12^\circ$ . Off coast of Norway.		
30	<i>iP</i> ·Z	5 23 14	
	$\Delta = 27^\circ$ . Hudson Bay.		
30	<i>i(P)</i> ·Z	9 43 51	
	<i>i</i> ·Z	43 52	
	<i>e(S)</i> ·Z	44 15	
	Near.		
30	<i>i(P)</i> ·Z	12 30 43	
	<i>i</i> ·Z	30 44	
	<i>e(S)</i> ·Z	31 07	
	Repetition?		
30	<i>e</i> ·Z	14 18 48	
	Near.		
30	<i>i</i> ·Z	17 58 12	
	<i>i</i> ·Z	58 15	
	Near.		
30	<i>ePKS</i> ·Z	18 28 06	
	<i>iPP</i> ·Z	30 22	
	$\Delta = 130^\circ$ . Kermadec Islands.		
30	<i>eP</i> ·Z	20 48 27	
	<i>L</i> ·NE	21 06	
	$\Delta = 55^\circ$ . Japan.		
30	<i>iP</i> ·Z	22 26 21	
	<i>L</i> ·NE	43	
	$\Delta = 55^\circ$ . Japan.		
31	<i>e(Pn)</i> ·Z	12 08 29	
	<i>i(Pg)</i> ·Z	08 44	
	<i>e(L)</i> ·Z	09 08	
	Near.		

February	
1 <i>iP·Z</i>	3 <sup>h</sup> 22 <sup>m</sup> 33 <sup>s</sup> +
<i>epP·Z</i>	23 35
$\Delta = 54^\circ$ , $h = 250$ km. Hindu Kush.	
1 <i>i·Z</i>	6 47 31
<i>e·Z</i>	47 33
1 <i>i·Z</i>	7 24 18
1 <i>i·Z</i>	13 52 28
<i>e·Z</i>	52 30
2 <i>i(P)·Z</i>	10 02 25
<i>e·Z</i>	02 39
<i>i·Z</i>	02 45
2 <i>iP·Z</i>	19 29 27
$\Delta = 49^\circ$ . Crete.	
3 <i>i·Z</i>	12 06 18
<i>e·Z</i>	06 21
4 <i>iP·Z</i>	8 45 38
5 <i>e·Z</i>	0 06 41
5 <i>iP·Z</i>	1 12 17
$\Delta = 41^\circ$ , 100 km. Alaska Peninsula.	
5 <i>iP·Z</i>	10 16 00
$\Delta = 61^\circ$ . Japan.	
5 <i>i·Z</i>	22 09 22
<i>i·Z</i>	09 29
5 <i>i·Z</i>	22 20 26
<i>i·Z</i>	20 27
Local.	
6 <i>eP·Z</i>	14 41 29
<i>L·NE</i>	56
$\Delta = 47^\circ$ . Aleutian Islands.	
7 <i>e·Z</i>	6 47 13
<i>i·Z</i>	47 16
7 <i>iP·ZN</i>	9 49 54
<i>iSKS·N</i>	10 00 22
<i>iS·N</i>	00 46
<i>eSS·N</i>	06.8
<i>eSSS·N</i>	10.3
<i>L·N</i>	20
$\Delta = 90^\circ$ . Peru.	
7 <i>eP·Z</i>	7 24 02
$\Delta = 82^\circ$ . Mariana Islands.	

February	
7 <i>e·Z</i>	7 <sup>h</sup> 06 <sup>m</sup> 54 <sup>s</sup>
<i>e·Z</i>	07 10
8 <i>e·Z</i>	0 56 27
8 <i>e·Z</i>	0 58 21
8 <i>e·Z</i>	1 01 53
8 <i>e·Z</i>	1 05 59
8 <i>iP·Z</i>	1 09 01 +
<i>L·E</i>	18
$\Delta = 33^\circ$ . North Atlantic Ocean.	
8 <i>e·Z</i>	3 19 42
<i>e·Z</i>	20 03
9 <i>iP·Z</i>	4 51 16
<i>eSSS·N</i>	5 02.3
<i>L·NE</i>	05.8
$\Delta = 48^\circ$ . Aleutian Islands.	
9 <i>i·Z</i>	7 36 36
10 <i>i·Z</i>	17 06 51
<i>i·Z</i>	06 54
<i>e·Z</i>	07 06
$\Delta$ about $1^\circ$ .	
11 <i>i·Z</i>	19 52 09
<i>i·Z</i>	52 11
Local.	
12 <i>i(Pn)·Z</i>	1 52 42
<i>i(Pg)·Z</i>	52 45
<i>i(Sn)·Z</i>	53 02
$\Delta$ about $1\frac{1}{2}^\circ$ .	
14 <i>iP·Z</i>	22 36 37 +
$\Delta = 66^\circ$ . India-Burma border.	
15 <i>eP·Z</i>	4 11 01
$\Delta = 48^\circ$ . Sinkiang province, China.	
15 <i>ePKP·Z</i>	5 02 07
<i>ePPP·NE</i>	07 51
<i>eSS·E</i>	24.3
<i>L·NE</i>	50
$\Delta = 140^\circ$ . Sandwich Group.	
15 <i>iP·Z</i>	5 56 42 +
$\Delta = 48^\circ$ . Turkey.	
16 <i>iP·Z</i>	18 06 19
<i>i(PcP)·Z</i>	06 39
$(\Delta = 74^\circ$ . Nicaragua?)	

February	
17 <i>e(P)·Z</i>	11 <sup>h</sup> 31 <sup>m</sup> 08 <sup>s</sup>
<i>i(S)·Z</i>	31 39
$\Delta = 3^\circ$ .	
17 <i>iP·Z</i>	12 11 35
$\Delta = 47^\circ$ . Aleutian Islands.	
17 <i>i(P)·Z</i>	15 35 06
<i>i(S)·Z</i>	35 35
$\Delta = 3^\circ$ .	
19 <i>e(P)·Z</i>	8 31 21
19 <i>e(P)·Z</i>	16 27 05
19 <i>i(P)·Z</i>	18 42 08
<i>e(S)·Z</i>	42 28
$\Delta = 2^\circ$ .	
20 <i>i·Z</i>	12 36 55
<i>i·Z</i>	36 57
20 <i>i·Z</i>	12 52 58
<i>i·Z</i>	53 00
20 <i>i·Z</i>	15 11 49
<i>i·Z</i>	11 51
20 <i>iP·Z</i>	18 27 39
$\Delta = 72^\circ$ , $h = 150$ km. Guatemala.	
21 <i>iPn·Z</i>	16 40 05
<i>eP*·Z</i>	40 10
<i>iPg·Z</i>	40 14
<i>iSn·Z</i>	40 39
<i>iS*·Z</i>	40 43
<i>i·Z</i>	40 45
<i>iSg·Z</i>	40 49
$\Delta = 2^\circ.8$ .	
22 <i>i(P)·Z</i>	9 45 35
<i>i(S)·Z</i>	46 03
$\Delta = 2^\circ.5$ .	
23 <i>iP·Z</i>	10 39 28
$\Delta = 46^\circ$ . Kamchatka.	
23 <i>iP·Z</i>	11 51 11
<i>iP·E</i>	51 11
<i>i(S)·E</i>	51 26
Local.	
23 <i>e·Z</i>	14 52 42
23 <i>eP·Z</i>	16 13 32
$\Delta = 49^\circ$ . Kurile Islands.	
24 <i>e·Z</i>	18 25 57

February	
26 <i>iP·Z</i>	7 <sup>h</sup> 02 <sup>m</sup> 26 <sup>s</sup>
<i>iS·ZNE</i>	04 17
<i>L·NE</i>	05.2
$\Delta = 10^\circ$ . Eastern Greenland.	
27 <i>i(P)·Z</i>	10 01 12
<i>i·Z</i>	01 30
27 <i>i(P)·Z</i>	17 26 47
<i>i·Z</i>	27 13
27 <i>iP·Z</i>	21 07 42
$\Delta = 70^\circ$ . Ryukyu Islands.	
March	
1 <i>iP·Z</i>	0 33 23
<i>L·NE</i>	34.7
$15^\circ$ decreasing to $8^\circ$	
$\Delta = 8\frac{1}{2}^\circ$ . SSW of Svalbard.	
1 <i>i·Z</i>	3 05 47
1 <i>eP·Z</i>	17 02 48
<i>eSKS·N</i>	13 12
<i>ePS·E</i>	15 32
<i>e·N</i>	16 24
<i>L·E</i>	32.3
$\Delta = 98^\circ$ , $h = 100$ km. New Guinea.	
2 <i>e·Z</i>	10 02 53
<i>i·Z</i>	02 55
<i>e·Z</i>	02 57
2 <i>i·Z</i>	15 08 52
2 <i>iP·Z</i>	16 00 43 +
$\Delta = 54^\circ$ , $h = 200$ km. Hindu Kush.	
3 <i>e·Z</i>	7 49 50
3 <i>i·Z</i>	9 07 56
<i>i·Z</i>	08 17
3 <i>e·Z</i>	12 16 04
<i>i·Z</i>	16 08
<i>e·Z</i>	16 13
4 <i>iP·Z</i>	19 09 52
$\Delta = 118^\circ$ , $h = 100$ km. Tonga Islands.	
4 <i>iP·Z</i>	20 10 14
$\Delta = 81^\circ$ . Andaman Islands.	
4 <i>e·Z</i>	20 14 04
5 <i>eP·Z</i>	23 08 38
$\Delta = 92^\circ$ , $h = 100$ km. Sumatra.	

March		
6	<i>i</i> -Z	8 <sup>h</sup> 59 <sup>m</sup> 42 <sup>s</sup>
6	<i>i</i> -Z	12 23 37
7	<i>i</i> -Z	7 46 31
	<i>i</i> -Z	46 34
9	<i>i</i> -Z	9 13 50
9	<i>i</i> -Z	17 52 24
	<i>i</i> -Z	52 45
9	<i>iP</i> -Z	18 54 09
	<i>epP</i> -Z	54 24
	$\Delta = 57^\circ$ , <i>h</i> about 60 km. Japan.	
10	<i>e</i> -Z	7 46 12
10	<i>i</i> -Z	9 01 01
10	<i>i</i> -Z	10 43 31
	<i>i</i> -Z	43 51
11	<i>iP</i> -Z	12 34 16
	<i>iS</i> -Z	34 54
11	<i>e</i> -Z	13 29 03
11	<i>iP</i> -Z	18 32 40
	<i>iS</i> -Z	33 39
	$\Delta = 54\frac{1}{2}^\circ$ , Svalbard.	
16	<i>e</i> -Z	20 08 02
16	<i>e</i> -Z	20 38 16
16	<i>i</i> -Z	22 00 28
	<i>i</i> -Z	00 56
17	<i>iP</i> -Z	8 36 34
	<i>iS</i> -NE	45 41
	<i>L</i> -NE	57
	$\Delta = 69^\circ$ , Ryukyu Islands.	
17	<i>iP</i> -Z	22 02 42
	<i>iS</i> -Z	04 33
	$\Delta = 10^\circ$ , Jan Mayen.	
18	<i>iP</i> -Z	0 52 35
	$\Delta = 69^\circ$ , Ryukyu Islands.	
19	<i>eP</i> -Z	8 34 04
	<i>iS</i> -E	41 01
	<i>L</i> -NE	46
	$\Delta = 48^\circ$ , North Atlantic Ocean.	
19	<i>iP</i> -Z	9 44 31
	$\Delta = 35^\circ$ , <i>h</i> = 100 km. Alaska.	

March		
20	<i>iP</i> -Z	1 <sup>h</sup> 11 <sup>m</sup> 14 <sup>s</sup>
	$\Delta = 47^\circ$ , Kamchatka.	
20	<i>i</i> -Z	14 28 08
21	<i>e</i> -Z	4 35 27
21	<i>e</i> -Z	9 54 23
22	<i>e</i> -Z	8 34 04
22	<i>e(P)</i> -Z	10 00 14
	<i>e(S)</i> -Z	00 42
23	<i>eP</i> -Z	7 19 38
	<i>eS</i> -NE	27 13
	<i>L</i> -NE	37
	$\Delta = 53^\circ$ , Nevada.	
23	<i>e</i> -Z	14 15 05
23	<i>e</i> -Z	23 24 47
24	<i>e</i> -Z	3 22 33
24	<i>e</i> -Z	4 05 30
24	<i>e</i> -Z	8 18 26
24	<i>e</i> -Z	8 47 36
24	<i>e</i> -Z	8 58 42
24	<i>e(P)</i> -Z	9 40 20
	<i>e(S)</i> -Z	40 44
24	<i>i</i> -Z	12 26 24
25	<i>e</i> -Z	2 28 25
25	<i>e(P)</i> -Z	3 02 14
	<i>e(S)</i> -Z	02 36
25	<i>e(P)</i> -Z	4 22 47
	<i>e(S)</i> -Z	23 15
25	<i>e(P)</i> -Z	4 57 56
	<i>e(S)</i> -Z	58 25
25	<i>eP</i> -Z	6 13 50
	$\Delta = 60^\circ$ , <i>h</i> = 100 km. W. Pakistan.	
25	<i>e</i> -Z	6 40 27
25	<i>iP</i> -Z	6 57 32
	<i>eS</i> -N	57 37
	trace ampl. 20 mm. no phase on <i>E</i> .	
25	<i>e</i> -Z	9 16 15

March		
25	<i>e</i> -Z	13 <sup>h</sup> 50 <sup>m</sup> 19 <sup>s</sup>
25	<i>e</i> -Z	14 56 21
25	<i>e</i> -Z	16 45 45
25	<i>e</i> -Z	19 37 54
25	<i>e</i> -Z	21 21 15
26	<i>i</i> -Z	0 52 03
26	<i>i</i> -Z	1 16 13
26	<i>e</i> -Z	1 42 54
26	<i>i(P)</i> -Z	3 19 57
	<i>i(S)</i> -Z	20 21
26	<i>e(P)</i> -Z	9 20 45
	<i>e(S)</i> -Z	21 15
26	<i>e</i> -Z	11 07 51
26	<i>e</i> -Z	12 11 05
27	<i>e</i> -Z	7 12 19
27	<i>i</i> -Z	7 12 46
	$\Delta = 67^\circ$ , <i>h</i> = 150 km. Lesser Antilles.	
27	<i>e</i> -Z	10 59 07
27	<i>i</i> -Z	23 49 04
28	<i>e</i> -Z	0 56 10
	<i>e</i> -Z	58 52
	Two shocks?	
28	<i>e</i> -Z	7 20 36
	<i>i</i> -Z	21 13
	<i>i</i> -Z	21 19
	$\Delta = 3^\circ?$	
29	<i>e</i> -Z	5 15 06
29	<i>e</i> -Z	11 07 05
29	<i>e</i> -Z	14 45 56
29	<i>i</i> -Z	17 49 48
29	<i>eP</i> -Z	19 18 20
	$\Delta = 52^\circ$ , <i>h</i> = 300 km? Sikhota Alin.	

March		
29	<i>i</i> -Z	19 <sup>h</sup> 36 <sup>m</sup> 33 <sup>s</sup>
29	<i>e</i> -Z	19 48 04
29	<i>iP</i> -Z	23 15 44
	$\Delta = 46^\circ$ , Greece.	
30	<i>i</i> -Z	7 53 41
30	<i>e</i> -Z	8 52 00
30	<i>e</i> -Z	13 32 16
	<i>i</i> -Z	32 48
	Japan?	
30	<i>i</i> -Z	21 27 32
	<i>i</i> -Z	27 53
31	<i>e</i> -Z	0 42 42
31	<i>e</i> -Z	4 07.6
31	<i>i</i> -Z	16 48 55
	<i>i</i> -Z	49 09
	<i>i</i> -Z	49 16
31	<i>iP</i> -Z	19 55 11
	<i>i(S)</i> -Z	55 36
	$\Delta = 2^\circ$ .	
April		
1	<i>e</i> -Z	0 15 07
	<i>e</i> -Z	16 11
1	<i>iP</i> -Z	0 43 46
	<i>eS</i> -NE	51 11
	<i>L</i> -N	1 02
	$\Delta = 54^\circ$ , Canary Islands.	
1	<i>e</i> -Z	2 36 37
1	<i>e</i> -Z	9 01 25
	<i>e</i> -Z	01 57
1	<i>eP</i> -Z	11 12 34
	$\Delta = 54^\circ$ , Canary Islands.	
1	<i>e</i> -Z	15 15 44
2	<i>iP</i> -Z	4 13 52
	$\Delta = 71^\circ$ , Ryukyu Islands.	
3	<i>iP</i> -Z	1 29 25
	<i>i(S)</i> -Z	29 34
	Near.	

April		
3	<i>iP·Z</i>	1 <sup>h</sup> 35 <sup>m</sup> 39 <sup>s</sup>
	$\Delta = 47^\circ$ .	Aleutian Islands.
3	<i>e·Z</i>	7 19 27
	<i>i·Z</i>	19 33
5	<i>eP·Z</i>	5 45 42
	$\Delta = 46^\circ$ .	Aleutian Islands.
5	<i>eP·Z</i>	10 55 12
	$\Delta = 38^\circ$ .	France.
5	<i>eP·Z</i>	20 09 12
	$\Delta = 53^\circ$ .	Kurile Islands.
8	<i>iPKP·Z</i>	1 41 52
	<i>ePP·Z</i>	44 35
	<i>i·Z</i>	44 37
	$\Delta = 131^\circ$ .	$h = 400$ km. Kermadec Islands.
8	<i>i·Z</i>	2 31 27
8	<i>iP·Z</i>	8 18 37 +
	<i>i·Z</i>	18 39
		Local.
8	<i>iPKP·Z</i>	12 03 47 +
	$\Delta = 134^\circ$ .	Chile.
9	<i>i·Z</i>	0 19 28
	<i>i·Z</i>	19 34
9	<i>iPKP·Z</i>	6 37 38
	$\Delta = 127^\circ$ .	Indian Ocean.
9	<i>iP·Z</i>	8 28 49
	<i>eS·Z</i>	29 40
	$\Delta = 4\frac{1}{2}^\circ$ .	NW of Isfjord, Svalbard.
9	<i>e·Z</i>	11 33 34
9	<i>eP·Z</i>	17 19 30
	$\Delta = 69^\circ$ .	India-Burma border.
9	<i>iP·Z</i>	17 48 20
	<i>eS·N</i>	58 35
	<i>eSS·N</i>	18 03 19
	<i>L·NE</i>	14.5
	$\Delta = 80^\circ$ .	South of Panama.
10	<i>e·Z</i>	5 48 50
10	<i>iPKP·Z</i>	6 05 28
	<i>ipPKP·Z</i>	07 50
	$\Delta = 123^\circ$ .	$h = 600$ km. Fiji Islands.
10	<i>i·Z</i>	6 15 19

April		
10	<i>e·Z</i>	7 <sup>h</sup> 58 <sup>m</sup> 09 <sup>s</sup>
10	<i>iP·Z</i>	12 09 57
	<i>iS·Z</i>	10 23
	$\Delta = 2^\circ$ .	
10	<i>iP·Z</i>	12 13 51
	<i>iS·Z</i>	14 17
	$\Delta = 2^\circ$ .	
10	<i>e·Z</i>	12 30 32
	<i>e·Z</i>	31 33
10	<i>eP·Z</i>	13 56 08
		Svalbard.
11	<i>iP·Z</i>	12 55 18
	<i>e·Z</i>	55 55
12	<i>iP·Z</i>	0 54 53
	<i>iS·Z</i>	55 09
	$\Delta = 1^\circ$ .	
12	<i>e·Z</i>	4 43 03
12	<i>eP·Z</i>	7 05 28
	<i>iS·Z</i>	05 59
	$\Delta = 3^\circ$ .	
12	<i>iP·Z</i>	10 06 05
	<i>ipP·ZNE</i>	06 31
	<i>iS·NE</i>	15 17
	<i>L·N</i>	35
	$\Delta = 71^\circ$ .	$h = 100$ km. Mexico.
12	<i>iP·Z</i>	11 10 49
	$\Delta = 72^\circ$ .	Formosa.
12	<i>eP·Z</i>	11 40 33
12	<i>iP·Z</i>	18 13 21
	<i>iS·Z</i>	13 40
	$\Delta = 2^\circ$ .	
12	<i>L·N</i>	21 45
13	<i>iP·Z</i>	9 06 57
	<i>iS·Z</i>	07 17
	$\Delta = 2^\circ$ .	
13	<i>iP·Z</i>	18 43 16
	<i>i(PeP)·Z</i>	43 31
	$\Delta = 70^\circ$ .	India-Burma border.
14	<i>iP·Z</i>	1 26 32
	<i>iS·Z</i>	26 56
	$\Delta = 3^\circ$ .	

April		
14	<i>iP·Z</i>	1 <sup>h</sup> 50 <sup>m</sup> 41 <sup>s</sup>
	<i>iS·Z</i>	51 05
		Aftershock?
14	<i>iP·Z</i>	1 57 16
	<i>iS·Z</i>	57 40
		Aftershock?
14	<i>eP·Z</i>	3 03 57
	<i>L·NE</i>	28
	$\Delta = 67^\circ$ .	Gulf of California.
14	<i>iP·Z</i>	7 27 51
	<i>iPeP·Z</i>	30 01
	$\Delta = 39^\circ$ .	Alaska Peninsula.
14	<i>e·Z</i>	9 08 45
14	<i>iPn·Z</i>	14 08 43 -
	<i>iP*·Z</i>	08 48
	<i>ePg·Z</i>	08 53
	<i>iSn·Z</i>	09 20
	$\Delta = 3^\circ$ .	
15	<i>iP·Z</i>	0 25 07 +
	$\Delta = 57^\circ$ .	Japan.
15	<i>e·Z</i>	4 45 40
15	<i>i·Z</i>	21 25 52
	<i>i·Z</i>	25 57
		Local.
16	<i>e·Z</i>	0 17 42
16	<i>iP·Z</i>	7 12 47
	<i>iS·Z</i>	13 08
	$\Delta = 2^\circ$ .	
16	<i>eP·Z</i>	13 07 53
	<i>eS·Z</i>	08 20
	$\Delta = 2^\circ$ .	
16	<i>e(P)·Z</i>	16 26 48
	$\Delta = 86^\circ$ .	$h = 100$ km. Mariana Islands.
17	<i>eP·Z</i>	17 01 33
	<i>iS·Z</i>	01 53
	$\Delta = 2^\circ$ .	
17	<i>eP·Z</i>	8 39 17 very weak.
	$\Delta = 16^\circ$ .	Lofoten.
18	<i>eP·Z</i>	3 42 11
	<i>eS·Z</i>	42 36
	$\Delta = 2^\circ$ .	
18	<i>i(P)·Z</i>	3 55 43

April		
18	<i>eP·Z</i>	3 <sup>h</sup> 59 <sup>m</sup> 20 <sup>s</sup>
	<i>eS·Z</i>	59 44
	$\Delta = 2^\circ$ .	
19	<i>eP·Z</i>	0 31 47
	<i>eS·Z</i>	32 12
	$\Delta = 2^\circ$ .	
19	<i>eP·Z</i>	11 45 51
	<i>eS·Z</i>	47 17
	$\Delta = 2^\circ$ .	
19	<i>iP·Z</i>	15 10 49
	<i>L·NE</i>	23
	$\Delta = 39^\circ$ .	Kodiak Island.
19	<i>iP·Z</i>	17 47 20 +
	$\Delta = 46^\circ$ .	Greece.
20	<i>iP·Z</i>	1 32 00
	<i>iS·Z</i>	32 21
	$\Delta = 2^\circ$ .	
20	<i>iP·Z</i>	3 08 56
	<i>i·Z</i>	09 00
		Local.
20	<i>ePS·N</i>	3 55 11
	<i>eSS·N</i>	4 01 18
	$\Delta = 104^\circ$ .	New Britain.
20	<i>eP·Z</i>	4 33 12
	<i>L·NE</i>	58
	$\Delta = 78^\circ$ .	Costa Rica.
21	<i>iP·Z</i>	20 04 39 +
	<i>iS·ZNE</i>	05 06
	$\Delta = 2\frac{1}{2}^\circ$ .	Greenland Sea.
22	<i>e·Z</i>	3 09 49
22	<i>eP·Z</i>	4 09 27
	<i>iS·Z</i>	09 54
	$\Delta = 3^\circ$ .	
22	<i>iP·Z</i>	11 03 15
	<i>ePP·Z</i>	04 58
	$\Delta = 45^\circ$ .	$h = 100$ km. Aleutian Islands.
22	<i>eP·Z</i>	13 51 12
	<i>eS·Z</i>	51 44
	$\Delta = 3^\circ$ .	
23	<i>e·Z</i>	2 05 54
24	<i>iP·Z</i>	4 02 54
	<i>i·Z</i>	02 57
		Local.

April			
24	<i>iP</i> · <i>Z</i>	10 <sup>b</sup> 13 <sup>m</sup> 36 <sup>s</sup>	
	<i>i(S)</i> · <i>Z</i>	13 59	
24	<i>e</i> · <i>Z</i>	10 53 20	
24	<i>e</i> · <i>Z</i>	10 55 15	
24	<i>e</i> · <i>Z</i>	15 55 43	
24	<i>iPKP</i> · <i>Z</i>	18 17 10	
	<i>iPKS</i> · <i>N</i>	20 35	
	<i>L</i> · <i>N</i>	59	
	$\Delta = 130^\circ$ .		Kermadec Islands.
25	<i>iP</i> · <i>Z</i>	0 35 17	-
	<i>i</i> · <i>Z</i>	39 24	
	<i>L</i> · <i>NE</i>	50	
	$\Delta = 47^\circ$ .		Turkey.
25	<i>iP</i> · <i>Z</i>	1 14 18	-
	Repetition.		
25	<i>i</i> · <i>Z</i>	2 32 44	
25	<i>iP</i> · <i>Z</i>	5 47 05	
25	<i>i</i> · <i>Z</i>	9 53 42	
25	<i>iP</i> · <i>Z</i>	22 59 35	
	$\Delta = 58^\circ$ .		Japan.
26	<i>iP</i> · <i>Z</i>	14 52 23	+
	$\Delta = 36^\circ$ .		Northern Italy.
26	<i>iP</i> · <i>Z</i>	20 51 48	+
	Papershift.		
	$\Delta = 72^\circ$ .		$h = 150$ km. Formosa.
27	<i>e</i> · <i>Z</i>	4 50 45	
27	<i>e</i> · <i>Z</i>	8 40 32	
27	<i>eP</i> · <i>Z</i>	13 00 35	
	$\Delta = 97^\circ$ .		$h = 200$ km. Celebes.
27	<i>e</i> · <i>Z</i>	13 18 08	
27	<i>eP</i> · <i>Z</i>	13 19 30	
	$\Delta = 60^\circ$ .		China.
27	<i>e</i> · <i>Z</i>	22 04 05	
28	<i>iP</i> · <i>Z</i>	5 45 09	
	<i>iS</i> · <i>Z</i>	45 40	
	$\Delta = 3^\circ$ .		

April			
28	<i>iP</i> · <i>Z</i>	6 <sup>b</sup> 15 <sup>m</sup> 43 <sup>s</sup>	
	<i>i</i> · <i>Z</i>	16 02	
28	<i>iP</i> · <i>ZNE</i>	11 21 02	<i>Z</i> : +
	<i>iS</i> · <i>NE</i>	30 26	
	<i>L</i> · <i>NE</i>	41	
	<i>M</i> · <i>NE</i>	56	20 <sup>s</sup> , <i>N</i> : 40 $\mu$ , <i>E</i> : 40 $\mu$ .
	$\Delta = 73^\circ$ .		$M = 6\frac{3}{4}$ . Mexico.
28	<i>e</i> · <i>Z</i>	23 55 33	
29	<i>e</i> · <i>Z</i>	13 14 09	
29	<i>iPn</i> · <i>Z</i>	17 11 47	
	<i>e</i> · <i>Z</i>	11 50	
	<i>e</i> · <i>Z</i>	11 52	
	<i>iSn</i> · <i>Z</i>	12 21	
	<i>i</i> · <i>Z</i>	12 24	
	<i>i</i> · <i>Z</i>	12 26	
	$\Delta = 3^\circ$ .		
30	<i>e</i> · <i>Z</i>	5 02 05	
30	<i>iP</i> · <i>Z</i>	6 50 05	
	<i>eS</i> · <i>Z</i>	50 45	
	$\Delta = 3\frac{1}{2}^\circ$ .		
30	<i>ePKP</i> · <i>Z</i>	13 44 51	
	<i>ePP</i> · <i>Z</i>	47 46	
	$\Delta = 137^\circ$ .		Sandwich Group.
30	<i>iPn</i> · <i>Z</i>	22 41 26	
	<i>iSn</i> · <i>ZNE</i>	42 14	
	<i>i</i> · <i>ZN</i>	42 22	
	$\Delta = 4^\circ$ .		Greenland Sea.
May			
1	<i>eP</i> · <i>Z</i>	8 33 01	
	$\Delta = 51^\circ$ .		Iran.
1	<i>iPn</i> · <i>Z</i>	13 10 44	
	<i>iP*</i> · <i>Z</i>	10 49	
	<i>iPg</i> · <i>Z</i>	10 52	
	<i>iSn</i> · <i>ZNE</i>	11 19	
	<i>iS*</i> · <i>ZNE</i>	11 22	
	$\Delta = 3^\circ$ .		
2	<i>iP</i> · <i>Z</i>	7 54 45	
	<i>iS</i> · <i>Z</i>	55 03	
	$\Delta = 2^\circ$ .		
2	<i>iP</i> · <i>Z</i>	13 53 59	
	<i>iS</i> · <i>Z</i>	54 30	
	$\Delta = 3^\circ$ .		

May			
3	<i>iP</i> · <i>Z</i>	4 <sup>b</sup> 52 <sup>m</sup> 59 <sup>s</sup>	
	$\Delta = 75^\circ$ .		$h = 100$ km. Nicaragua.
4	<i>e</i> · <i>Z</i>	6 00 43	
4	<i>iP</i> · <i>ZNE</i>	7 24 01	<i>Z</i> : +, <i>N</i> : -18 $\mu$ , <i>E</i> : -4 $\mu$ .
	<i>iS</i> · <i>NE</i>	30 35	<i>N</i> : +, <i>E</i> : +.
	<i>iSS</i> · <i>NE</i>	33 50	
	<i>L</i> · <i>NE</i>	38	
	<i>M</i> · <i>NE</i>	42	20 <sup>s</sup> , <i>N</i> : 400 $\mu$ , <i>E</i> : 140 $\mu$ .
	$\Delta = 46^\circ$ .		$M = 7\frac{1}{2}$ . Kamchatka.
4	<i>i</i> · <i>Z</i>	11 41 48	
4	<i>iP</i> · <i>Z</i>	17 29 10	
	$\Delta = 64^\circ$ .		Tibet.
4	<i>iP</i> · <i>Z</i>	23 15 37	+
	$\Delta = 2^\circ$ .		Greenland Sea.
5	<i>e</i> · <i>Z</i>	8 44 03	
5	<i>L</i> · <i>NE</i>	19 26	
5	<i>i</i> · <i>Z</i>	19 56 10	
5	<i>iP</i> · <i>Z</i>	22 55 35	
	<i>iS</i> · <i>Z</i>	55 57	
	$\Delta = 2^\circ$ .		
5	<i>iP</i> · <i>Z</i>	23 38 55	
	<i>iS</i> · <i>Z</i>	39 06	
	$\Delta = 1^\circ$ .		
6	<i>iP</i> · <i>Z</i>	7 09 25	
	<i>iS</i> · <i>Z</i>	09 45	
	$\Delta = 2^\circ$ .		
6	<i>iP</i> · <i>Z</i>	14 00 28	
	<i>i</i> · <i>Z</i>	00 30	
	$\Delta = 2^\circ$ .		Greenland Sea.
7	<i>iP</i> · <i>Z</i>	3 17 48	-
8	<i>eP</i> · <i>Z</i>	3 10 04	
	<i>eS</i> · <i>Z</i>	10 30	
	$\Delta = 2^\circ$ .		
8	<i>iP</i> · <i>Z</i>	5 26 31	
	$\Delta = 72^\circ$ .		Ryukyu Islands.
8	<i>iP</i> · <i>Z</i>	11 43 02	
	<i>eS</i> · <i>NE</i>	49 37	
	<i>L</i> · <i>NE</i>	57	
	$\Delta = 45^\circ$ .		Kamchatka.
8	<i>iP</i> · <i>Z</i>	17 33 51	+

May			
9	<i>i</i> · <i>Z</i>	21 <sup>b</sup> 32 <sup>m</sup> 09 <sup>s</sup>	
10	<i>e</i> · <i>Z</i>	7 50 12	
11	<i>i(P)</i> · <i>Z</i>	4 58 02	
	<i>i(L)</i> · <i>Z</i>	58 05	
	Near.		
11	<i>iP</i> · <i>Z</i>	8 49 23	
	Northern Siberia?		
11	<i>e</i> · <i>Z</i>	13 53 59	
11	<i>iP</i> · <i>Z</i>	16 37 08	
	$\Delta = 45^\circ$ .		Kamchatka.
12	<i>iP</i> · <i>NE</i>	5 05 44	Compr.
	<i>ePP</i> · <i>N</i>	07 23	
	<i>iS</i> · <i>NE</i>	12 14	
	<i>e</i> · <i>NE</i>	16 01	
	<i>L</i> · <i>NE</i>	18.6	
	$\Delta = 44^\circ$ .		Aleutian Islands. No Z-record.
12	<i>eP</i> · <i>NE</i>	10 01.3	
	<i>iPS</i> · <i>NE</i>	15 02	
	<i>L</i> · <i>NE</i>	42	
	$\Delta = 108^\circ$ .		Argentina. No Z-record.
12	<i>eP</i> · <i>N</i>	21 48.8	
	<i>eS</i> · <i>N</i>	56 10	
	<i>L</i> · <i>N</i>	22 03	
	$\Delta = 46^\circ$ .		Aleutian Islands. No Z-record.
14	<i>eP</i> · <i>NE</i>	6 45 37	
	<i>iS</i> · <i>N</i>	52 35	
	<i>iScS</i> · <i>NE</i>	55 30	
	<i>iSS</i> · <i>NE</i>	55 42	
	<i>L</i> · <i>NE</i>	7 03	
	$\Delta = 48^\circ$ .		Crete. No Z-record.
14	<i>iP</i> · <i>Z</i>	16 40 58	
	<i>eS</i> · <i>Z</i>	41 20	
	$\Delta = 2^\circ$ .		
15	<i>iP</i> · <i>Z</i>	6 25 12	
	<i>e(L)</i> · <i>Z</i>	25 20	
	$\Delta = 1^\circ$ .		
15	<i>iP</i> · <i>Z</i>	14 54 14	+
	<i>iPcP</i> · <i>Z</i>	14 24	
	$\Delta = 72^\circ$ .		Mexico.
15	<i>iP</i> · <i>Z</i>	18 29 27	
	<i>iS</i> · <i>Z</i>	29 55	
	$\Delta = 2^\circ$ .		
16	<i>eP</i> · <i>Z</i>	2 55 15	
	<i>iS</i> · <i>Z</i>	55 43	
	$\Delta = 2^\circ$ .		

May			
16	<i>eP</i> · <i>Z</i>	4 <sup>h</sup> 20 <sup>m</sup> 00 <sup>s</sup>	
	<i>iS</i> · <i>Z</i>	20 29	
	$\Delta = 2^\circ$ .		
16	<i>eP</i> · <i>Z</i>	6 30 26	
	<i>e</i> · <i>Z</i>	30 45	
	<i>eSKS</i> · <i>N</i>	41 02	
	<i>ePS</i> · <i>N</i>	43 49	
	<i>eSS</i> · <i>N</i>	49.5	
	<i>L</i> · <i>N</i>	7 04.5	
	$\Delta = 103^\circ$ .	New Britain.	
16	<i>i</i> · <i>Z</i>	10 58 07	+
16	<i>iP</i> · <i>Z</i>	13 02 49	
	<i>iS</i> · <i>Z</i>	03 17	
	$\Delta = 2^\circ$ .		
16	<i>i</i> · <i>Z</i>	15 35 47	+
17	<i>i</i> · <i>Z</i>	21 05 54	
18	<i>iP</i> · <i>Z</i>	3 52 32	+
	<i>iS</i> · <i>Z</i>	53 01	+
	$\Delta = 3^\circ$ .		
18	<i>eP</i> · <i>Z</i>	7 32 35	
	$\Delta = 46^\circ$ .	Aleutian Islands.	
18	<i>eP</i> · <i>Z</i>	9 59 13	
	<i>iS</i> · <i>Z</i>	59 41	
	$\Delta = 3^\circ$ .		
19	<i>e</i> · <i>Z</i>	1 15 12	
19	<i>iP</i> · <i>Z</i>	2 07 56	
	<i>iS</i> · <i>Z</i>	08 14	
	$\Delta = 2^\circ$ .		
19	<i>eP</i> · <i>Z</i>	15 27 27	
	<i>L</i> · <i>NE</i>	46	
	$\Delta = 57^\circ$ .	Afghanistan.	
19	<i>i</i> · <i>Z</i>	17 59 32	
	<i>i</i> · <i>Z</i>	59 36	
	Near.		
19	<i>iP</i> · <i>Z</i>	18 00 31	
	<i>iS</i> · <i>Z</i>	00 59	
	$\Delta = 2^\circ$ .		
20	<i>iP</i> · <i>Z</i>	11 36 27	+
	$\Delta = 66^\circ$ .	$h = 450$ km. Japan.	
20	<i>iP</i> · <i>Z</i>	19 57 26	-
	<i>e</i> · <i>NE</i>	20 08	
	$\Delta = 45^\circ$ .	Georgia S.S.R.	

May			
21	<i>eP</i> · <i>Z</i>	7 <sup>h</sup> 00 <sup>m</sup> 00 <sup>s</sup>	
	<i>iPcP</i> · <i>Z</i>	01 38	+
	$\Delta = 46^\circ$ .	Aleutian Islands.	
21	<i>ePP</i> · <i>ZNE</i>	11 53 46	
	<i>ePS</i> · <i>NE</i>	12 03 22	
	<i>e</i> · <i>NE</i>	03 37	
	$\Delta = 112^\circ$ .	Argentina.	
21	<i>eP</i> · <i>Z</i>	12 15 36	
	<i>eS</i> · <i>Z</i>	16 04	
	$\Delta = 2^\circ$ .		
21	<i>e</i> · <i>Z</i>	19 33 37	
	<i>i</i> · <i>Z</i>	33 39	
22	<i>i</i> · <i>Z</i>	4 29 10	
23	<i>i</i> · <i>Z</i>	8 40 40	+
23	<i>iP</i> · <i>Z</i>	14 39 15	
	<i>iS</i> · <i>Z</i>	39 35	
	$\Delta = 2^\circ$ .		
24	<i>e</i> · <i>Z</i>	3 30 30	
24	<i>i(S)</i> · <i>Z</i>	7 58 54	
24	<i>i(S)</i> · <i>Z</i>	8 10 28	
24	<i>iP</i> · <i>Z</i>	11 39 11	
	$\Delta = 67^\circ$ .	India.	
24	<i>iP</i> · <i>ZNE</i>	19 28 53	Dilat.
	<i>e</i> · <i>ZN</i>	29 12	
	<i>epP</i> · <i>ZE</i>	29 19	
	<i>iS</i> · <i>NE</i>	38 08	<i>N</i> : -, <i>E</i> : -.
	<i>isS</i> · <i>NE</i>	38 32	
	<i>i</i> · <i>E</i>	39 14	
	<i>eSS</i> · <i>NE</i>	42 37	
	<i>eSSS</i> · <i>NE</i>	45 57	
	<i>L</i> · <i>NE</i>	51	
	$\Delta = 71^\circ$ .	$h = 100$ km. Mexico.	
24	<i>eP</i> · <i>Z</i>	23 49 29	
	<i>iS</i> · <i>Z</i>	50 08	
	$\Delta = 3^\circ$ .		
25	<i>eP</i> · <i>Z</i>	0 26 25	
	<i>iS</i> · <i>Z</i>	27 04	
	$\Delta = 3^\circ$ .	Similar to previous shock.	
25	<i>e</i> · <i>Z</i>	4 28 57	
	Aftershock?		
26	<i>iP</i> · <i>ZNE</i>	4 24 04	
	<i>ePP</i> · <i>ZN</i>	27 04	
	<i>e(PS)</i> · <i>N</i>	33 53	
	$\Delta = 70^\circ$ .	$h = 100$ km. Ryukyu Islands.	

May			
26	<i>iP</i> · <i>Z</i>	5 <sup>h</sup> 38 <sup>m</sup> 35 <sup>s</sup>	
	$\Delta = 67^\circ$ .	Lesser Antilles.	
26	<i>eP</i> · <i>Z</i>	6 45 17	
	<i>L</i> · <i>N</i>	7 03	
	$\Delta = 53^\circ$ .	Afghanistan.	
26	<i>e</i> · <i>Z</i>	6 53 54	
26	<i>eP</i> · <i>Z</i>	13 31 17	
	<i>eS</i> · <i>Z</i>	33 05	
	$\Delta = 10^\circ$ .	Greenland Sea.	
27	<i>iP</i> · <i>Z</i>	11 58 09	
	Not near.		
28	<i>i</i> · <i>Z</i>	3 48 12	
31	<i>L</i> · <i>NE</i>	10 20	
31	<i>eP</i> · <i>Z</i>	12 23 08	
	$\Delta = 39^\circ$ .	Rumania.	
31	<i>L</i> · <i>NE</i>	15 24	
June			
1	<i>iP</i> · <i>Z</i>	1 50 02	
	<i>iS</i> · <i>Z</i>	50 25	
	$\Delta = 2^\circ$ .		
1	<i>i</i> · <i>Z</i>	7 12 16	
	Near.		
1	<i>e</i> · <i>Z</i>	9 32 49	
2	<i>L</i> · <i>NE</i>	3 15	
	No Z-record.		
2	<i>L</i> · <i>NE</i>	5 34	
	No Z-record.		
3	<i>iP</i> · <i>Z</i>	5 51 47	
	<i>iPP</i> · <i>Z</i>	53 26	
	$\Delta = 46^\circ$ .	Aleutian Islands.	
4	<i>iPn</i> · <i>Z</i>	10 24 39	
	<i>iPg</i> · <i>Z</i>	24 42	
	<i>iS</i> · <i>Z</i>	25 01	
	$\Delta = 2^\circ$ .		
4	<i>i</i> · <i>Z</i>	15 45 17	
6	<i>e</i> · <i>Z</i>	22 01 36	
7	<i>eP</i> · <i>Z</i>	7 58 05	
	$\Delta = 87^\circ$ .	Philippine Islands.	

June			
7	<i>eP</i> · <i>Z</i>	6 <sup>h</sup> 26 <sup>m</sup> 38 <sup>s</sup>	
	<i>eS</i> · <i>Z</i>	26 56	
	$\Delta = 2^\circ$ .		
7	<i>iP</i> · <i>Z</i>	8 47 17	
	$\Delta = 87^\circ$ .	Philippine Islands.	
7	<i>i</i> · <i>Z</i>	14 20 15	
7	<i>iP</i> · <i>Z</i>	17 05 06	
	<i>iS</i> · <i>Z</i>	05 25	
	$\Delta = 2^\circ$ .		
7	<i>e</i> · <i>Z</i>	17 14 14	
7	<i>iPn</i> · <i>Z</i>	19 47 08	+
	<i>iP*</i> · <i>Z</i>	47 09	
	<i>iPg</i> · <i>Z</i>	47 13	+
	<i>iRg</i> · <i>Z</i>	47 45	
	$\Delta = 2^\circ$ .		
9	<i>e(P)</i> · <i>Z</i>	10 56 25	
	<i>e(S)</i> · <i>Z</i>	56 59	
	$\Delta = 3^\circ$ .		
9	<i>eP</i> · <i>Z</i>	15 02 15	
	<i>eS</i> · <i>Z</i>	02 32	
	$\Delta = 1^\circ$ .		
9	<i>eP</i> · <i>Z</i>	15 14 05	
	<i>eS</i> · <i>Z</i>	14 29	
	$\Delta = 2^\circ$ .		
9	( <i>L</i> )· <i>Z</i>	23 34 06	
	Near.		
9	<i>i</i> · <i>Z</i>	22 35 59	
	<i>i</i> · <i>Z</i>	36 03	
10	<i>iP</i> · <i>Z</i>	4 24 46	-
	$\Delta = 48^\circ$ .	Crete.	
10	<i>iP</i> · <i>Z</i>	10 21 47	
	<i>iS</i> · <i>Z</i>	22 19	
	$\Delta = 3^\circ$ .		
13	<i>iP</i> · <i>Z</i>	1 12 09	-
	$\Delta = 62^\circ$ .	Japan.	
14	<i>iP</i> · <i>Z</i>	0 26 04	-
	<i>e</i> · <i>ZE</i>	29 38	
	<i>iSKS</i> · <i>NE</i>	36 32	
	<i>e</i> · <i>NE</i>	37 31	
	<i>iS</i> · <i>NE</i>	37 47	
	<i>isS</i> · <i>NE</i>	38 33	
	<i>eSS</i> · <i>NE</i>	45 43	
	<i>L</i> · <i>NE</i>	1 01	
	$\Delta = 105^\circ$ .	$h = 100$ km. Bolivia.	

Nord 1959

Table with 3 columns: Date, Time, and Amplitude/Location. Rows include June 14 (iP·Z, iS·Z, Δ = 1°), June 14 (iP·Z, iL·Z, i·Z), June 14 (e·Z), June 15 (iP·Z, Δ = 72°, Formosa), June 16 (eP·Z, iS·Z, Δ = 3°), June 16 (eP·Z, iS·Z, Δ = 2°), June 16 (eP·Z, Δ = 73°, Mexico), June 18 (eP·E, iS·E, eSS·E, L·E, Δ = 45°, Kamchatka, E-record only), June 21 (eP·Z, iS·Z, Δ = 2°), June 22 (i·Z), June 23 (e·Z), June 23 (eP·Z, ePcP·Z, L·E, Δ = 54°, Nevada), June 24 (eP·Z, Δ = 48°, Kamchatka).

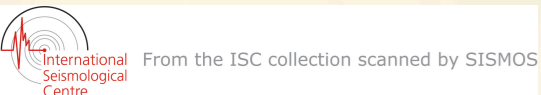
Table with 3 columns: Date, Time, and Amplitude/Location. Rows include June 24 (e(P)·Z, 6h19m52s), June 24 (iP·Z, iS·Z, Δ = 2°), June 25 (eP·Z, Δ = 54°, h = 200 km, Hindu Kush), June 25 (iP·ZNE, iS·NE, L·NE, Δ = 20°, Southwest of Iceland), June 25 (e·Z), June 26 (eP·Z, Δ = 38°, h = 100 km, Rumania), June 26 (eP·Z, ePP·Z, eS·N, L·NE, Δ = 50°, China-USSR border), June 26 (ePKP·Z, eSKP·Z, iPKS·N, L·NE, Δ = 132°, Kermadec Islands), June 28 (L·N), June 28 (eP·Z, ePKP·Z, eSKS·NE, iPS·NE, Δ = 106°, Banda Sea), June 29 (iSKS·N, Δ = 105°, Solomon Islands), June 29 (iP·Z, Philippine Islands).

November 1961.

HENRY JENSEN.  
JØRGEN HJELME.

Microseisms. Nord

Table with 5 columns: Year, Direction (N/E), Time (0h, 6h, 12h, 18h), and Amplitude. Rows span from 1959 Jan. 1 to 1959 Feb. 24.







### Microseisms. Nord

1959	N				E				1959
June	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	June
11	0.0	0.0	0.0	2 0.1 5.1	0.0	0.0	0.0	2 0.1 4.9	11
12	2 0.1 4.8	2 0.3 4.9	2 0.2 4.7	2 0.2 4.8	2 0.1 4.4	2 0.3 4.9	2 0.2 4.7	2 0.2 4.8	12
13	2 0.1 4.6	0.1	0.0	0.0	2 0.1 4.7	0.1	0.0	0.0	13
14	0.0	0.0	0.1	2 0.1 5.0	0.0	0.0	0.1	2 0.1 5.0	14
15	2 0.1 5.2	2 0.1 5.8	0.1	0.0	2 0.1 5.5	2 0.1 5.5	0.0	0.0	15
16	0.0	2 0.1 4.0	2 0.1 4.2	2 0.1 4.3	0.0	0.0	2 0.1 4.3	2 0.1 4.2	16
17	2 0.1 4.5	2 0.1 4.4	0.1	0.0	2 0.1 4.6	2 0.1 4.5	0.0	0.0	17
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	.. ..	.. ..	.. ..	0.0	2 0.1 3.-	2 0.1 3.-	0.0	20
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	.. ..	.. ..	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30

## GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

## Bulletin of the seismological station

**NORD** $\varphi = 81^{\circ}36' \text{ N.} \quad \lambda = 16^{\circ}41' \text{ W.} \quad h = 35 \text{ m.}$ 

Lithologic foundation: calcareous greywacke

**Instruments**Willmore. *Z.*  $T_p = 1 \text{ sec.} \quad T_g = 1/4 \text{ sec.}$  No attenuation.Strobach. *N* and *E.*  $T = 6 \text{ sec.} \quad \nu = 15:1, \quad V_0 = 500.$  (Belongs to Geophysikalisches Institut, Hamburg.)**Seismological Readings**

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often due to USCGS. The periods given are periods of full oscillations. For *N* and *E* the amplitudes given are single ground amplitudes. For *Z* trace amplitudes are given. + indicates ground motion towards the north, towards the east, or upwards. — indicates the opposite direction.

**Microseismic Readings**

For every group of figures the first one indicates the character of the microseisms. 1 is group microseisms, 2 is continuous microseisms, 3 is irregular or mixed microseisms. Thereafter the single ground amplitude in microns is given, and at last the period of a full oscillation is stated.



July	
1	<i>iP·Z</i> 2 <sup>b</sup> 38 <sup>m</sup> 05 <sup>s</sup> <i>iS·NE</i> 46 33 N: +, E: +. $\Delta = 70^\circ$ , $h = 550$ km. Bonin Island region.
2	<i>i·Z</i> 13 34 08
3	<i>eP·Z</i> 5 28 34 $\Delta = 39^\circ$ . Kodiak Island region.
3	<i>iZ</i> 12 42 46 0.4 mm <i>iZ</i> 42 46.4 6 mm. <i>iZ</i> 42 49 7 mm. Near.
3	<i>ePPS·NE</i> 18 25 10 <i>eSS·N</i> 31 44 $\Delta = 114^\circ$ . New Hebrides Islands.
4	<i>eP·Z</i> 7 43 12 <i>e·S</i> 44 57 <i>i·Z</i> 45 03 <i>L·NE</i> 46 $\Delta = 10^\circ$ . Arctic Ocean.
5	<i>iP·Z</i> 21 44 04 <i>iS·Z</i> 44 24 1.5 mm. $\Delta = 2^\circ$ .
6	<i>ePKP·Z</i> 9 27 46 <i>iSKS·NE</i> 33 29 <i>iSKKS·NE</i> 34 32 <i>eS·NE</i> 35 12 <i>eSP·NE</i> 37 02 <i>iPKKP·Z</i> 38 47 <i>iPKKP·Z</i> 39 00 <i>eSS·NE</i> 43 12 $\Delta = 110^\circ$ , $h = 600$ km. Argentina.
6	<i>iPKP·Z</i> 9 40 56 <i>iSKS·NE</i> 43 38 <i>iSKKS·NE</i> 47 43 <i>iS·NE</i> 48 17 <i>eSP·NE</i> 50 04 <i>iPKKP·Z</i> 51 57 <i>iPKKP·Z</i> 52 10 <i>eSS·N</i> 56 23 Repetition.
7	<i>i·Z</i> 4 17 21
8	<i>eP·Z</i> 2 06 37 <i>L·NE</i> 10.4 Near east coast of Greenland.
9	<i>iP·Z</i> 1 42 39 <i>iS·Z</i> 43 00

July	
9	<i>eP·Z</i> 3 <sup>b</sup> 55 <sup>m</sup> 52 <sup>s</sup> <i>eS·Z</i> 56 17
9	<i>eP·Z</i> 16 20.8 <i>e·Z</i> 24.0 $\Delta = 105^\circ$ , $h = 100$ km. Chile-Bolivia border.
11	<i>eP·Z</i> 5 33 54 <i>i·Z</i> 34 08 <i>i·Z</i> 34 11 Near.
11	<i>ePKP·Z</i> 12 20 46 <i>L·NE</i> 63 $\Delta = 126^\circ$ . Indian Ocean.
12	<i>iP·Z</i> 17 01 04 $\Delta = 48^\circ$ . Aegean Sea.
12	<i>eP·Z</i> 1 41 43 <i>iS·ZNE</i> 43 37 <i>L·NE</i> 44 17 $\Delta = 10\frac{1}{2}^\circ$ . Jan Mayen Island.
13	<i>iP·Z</i> 12 37 11 <i>i·Z</i> 38 47 <i>e·NE</i> 39 37 <i>e·E</i> 41 27 <i>ePeS·N</i> 42 47 <i>eS·NE</i> 43 52 <i>eScS·NE</i> 47 04 <i>L·NE</i> 51 $\Delta = 46^\circ$ . Aleutian Islands.
14	<i>eP·Z</i> 0 08 28 $\Delta = 47^\circ$ . Aleutian Islands.
14	<i>e·Z</i> 6 11 18 Near.
14	<i>eP·Z</i> 11 41 26 $\Delta = 40^\circ$ , $h$ abt. 60 km. Alaska.
15	<i>e·Z</i> 5 31 26 Near.
15	<i>e·Z</i> 9 37 07 Near.
15	<i>e·Z</i> 12 57 00
15	<i>e·Z</i> 14 50 44 Near. Similar to 15 <sup>d</sup> 09 <sup>b</sup> .
16	<i>i·Z</i> 12 27 30 Near.
16	<i>e·Z</i> 15 26 04 $\Delta = 48^\circ$ . Aleutian Islands.

July	
18	<i>iP·ZNE</i> 20 <sup>b</sup> 06 <sup>m</sup> 58 <sup>s</sup> <i>e·NE</i> 08 00 <i>iS·NE</i> 16 49 N: +, E: -. <i>eSSS·NE</i> 25 17 <i>L·NE</i> 32 $\Delta = 81^\circ$ , $h$ abt. 150 km. Philippine Islands.
19	<i>eP·Z</i> 15 19 38 <i>iSKS·NE</i> 29 56 <i>iPS·E</i> 32 46 <i>L·NE</i> 51 $\Delta = 100^\circ$ , $h = 200$ km. Peru.
19	<i>eP·Z</i> 10 43 56 <i>iS·ZNE</i> 44 22 $\Delta = 2^\circ$ .
20	<i>eP·Z</i> 2 54 02 <i>ePP·ZNE</i> 58 20 <i>iSKS·NE</i> 3 03 52 <i>e·NE</i> 04 29 <i>e·NE</i> 06 27 <i>e·Z</i> 10 14 <i>e·Z</i> 10 39 $\Delta = 101^\circ$ , $h = 500$ km. Java Sea
21	<i>eP·Z</i> 9 28 36 $\Delta = 66^\circ$ . Off Dominican Republic.
21	<i>eP·Z</i> 12 40 40 <i>eS·NE</i> 50 10 <i>SS·NE</i> 54.8 <i>SSS·E</i> 58.5 <i>L·NE</i> 13 08 $\Delta = 73^\circ$ . Near coast of Mexico.
21	<i>eP·Z</i> 13 15 03 $\Delta = 73^\circ$ . Repetition.
22	<i>iP·ZNE</i> 19 31 43 <i>iS·NE</i> 37 38 <i>iScS·E</i> 40 28 $\Delta = 45^\circ$ , $h$ abt. 650 km. Sea of Okhotsk.
22	<i>ePP·N</i> 23 20 43 <i>iSKS·NE</i> 27 05 <i>PS·NE</i> 29.8 <i>L·NE</i> 52 $\Delta = 103^\circ$ , $h$ abt. 60 km. New Britain.
23	<i>eP·Z</i> 13 55 27 $\Delta = 60^\circ$ . Japan.
24	<i>eP·ZNE</i> 1 32 24 <i>eS·NE</i> 39 54 <i>L·NE</i> 49 $\Delta = 52^\circ$ . Off coast of California.

July	
24	<i>ePKP·Z</i> 23 <sup>b</sup> 22 <sup>m</sup> 25 <sup>s</sup> $\Delta = 137^\circ$ . Sandwich Islands.
25	<i>eP·Z</i> 16 07 32 $\Delta = 48^\circ$ . Sakhalin.
26	<i>i·Z</i> 0 31 26 Near. Weak traces on N and E records.
26	<i>i·Z</i> 3 00 14 Repetition.
26	<i>eP·Z</i> 17 15 08 $\Delta = 43^\circ$ . Turkey.
August	
7	<i>iP·ZNE</i> 21 53 05 <i>eS·NE</i> 59 14 <i>L·NE</i> 22 05 $\Delta = 41^\circ$ . Kodiak Island.
8	<i>eP·ZNE</i> 0 55 45 <i>e·NE</i> 57 30 <i>eS·NE</i> 1 02 14 $\Delta = 44^\circ$ . Kamchatka.
8	<i>eP·Z</i> 13 53 20 $\Delta = 52^\circ$ . Tadzhikistan, USSR.
9	<i>eP·Z</i> 2 48 08 $\Delta = 96^\circ$ . Halmahera.
11	<i>iP·ZE</i> 0 27 34 Z: +, E: +. <i>e·NE</i> 28.1 <i>L·NE</i> 28.7 Near.
	P S
11	<i>e</i> 6 <sup>b</sup> 18 <sup>m</sup> 52 <sup>s</sup> <i>e</i> 20 <sup>m</sup> 43 <sup>s</sup>
11	<i>e</i> 7 02 53 <i>e</i> 04 47
11	<i>e</i> 7 38 05 <i>e</i> 39 57
11	<i>e</i> 7 48 44 <i>e</i> 50 37
11	<i>e</i> 7 57 27 <i>e</i> 58 20
11	<i>e</i> 8 07 14
11	<i>e</i> 9 37 10 <i>e</i> 39 00
11	<i>e</i> 12 22 00 <i>e</i> 23.8 $\Delta = 10^\circ$ . 8 shocks from Jan Mayen.
11	<i>e(P)·Z</i> 12 <sup>b</sup> 40 <sup>m</sup> .4 <i>e(S)·Z</i> 41.0 $\Delta =$ abt. 3°.

August

	P	S
11	e 13 <sup>h</sup> 19 <sup>m</sup> 10 <sup>s</sup>	e 21 <sup>m</sup> 04 <sup>s</sup>
11	e 13 44 04	e 45 58
11	e 14 22 31	e 24 25
11	e 14 53 00	e 55.1
11	e 15 06 22	e 08 18
11	e 15 52 25	e 54 17
11	e 16 14 18	e 16 13
11	e 18 17 27	e 19 19
12	e 1 34 33	e 36 28
12	e 4 24 09	e 26 03
12	e 5 07 13	e 09 06
$\Delta = 10^\circ$ . 11 shocks from Jan Mayn.		
12	ePS·NE	10 <sup>h</sup> 27 <sup>m</sup> .7
	eSS·NE	34.1
	L·NE	52
$\Delta = 114^\circ$ . Fiji Islands region.		
13	eP·Z	00 41 43
$\Delta = 47^\circ$ . Azerbaijan SSR.		
13	iP·Z	04 13 00
	iS·Z	13 28
$\Delta = 2\frac{1}{2}^\circ$ .		
14	eP·Z	04 52 39
$\Delta = 97^\circ$ . Molucca Passage.		
14	eP·Z	11 33 34
	e(S)·ZNE	33 54
$\Delta = 2^\circ$ .		
15	eP·Z	06 31 08
	e·Z	23
$\Delta = 42^\circ$ . Alaska Peninsula.		
15	iP·ZNE	09 08 40 C.
	iS·NE	18 09
	L·NE	30
	M·NE	43
$\Delta = 73^\circ$ . $M = 7.4$ . Formosa.		
15	eP·Z	10 47 49
	e(S)·Z	48 23
$\Delta = 30^\circ$ .		
15	e·Z	13 33 38
15	eP·Z	18 50 02
$\Delta = 44^\circ$ . Kamchatka.		
15	e·Z	15 53 33
	e·Z	53 55
16	L·NE	1 57

August

16	e·Z	15 <sup>h</sup> 17 <sup>m</sup> 03 <sup>s</sup>
	e·Z	17 30
Near.		
16	e·Z	18 50 27
16	e·Z	23 07 46
17	iP·Z	1 41 12 C.
17	iP·Z	4 36 58
$\Delta = 43^\circ$ . Albania.		
17	i(P)·Z	21 21 38
Arctic?		
17	eSKS·N	21 29 39
	L·NE	54
$\Delta = 106^\circ$ . Solomon Islands.		
18	iP·Z	0 43 09
$\Delta = 97^\circ$ . $h = 200$ km. Celebes.		
18	iP·Z	0 45 19
	iPeP·Z	45 36
$\Delta = 74^\circ$ . $h = 200$ km. Formosa.		
18	eP·ZNE	6 45 45
	ePP·E	47 38
	eS·NE	52 33
	eSS·NE	55 42
	L·NE	7 01
$\Delta = 47^\circ$ . Montana.		
18	eP·Z	8 04 49
	L·NE	20
Repetition.		
18	L·NE	9 05
18	L·NE	11 28
18	eP·ZE	15 34 35
	iPP·E	36 28
	eS·NE	41 25
	eSS·NE	44 37
	L·NE	49
$\Delta = 47^\circ$ . Montana.		
18	e·Z	18 21 04
19	eP·E	4 12 34
	eS·E	19 24
	L·N	27.6
$\Delta = 47^\circ$ . Montana.		
19	e·Z	15 59 57

August

19	L·N	19 <sup>h</sup> 30 <sup>m</sup>
19	L·N	20 07
20	e(P)·Z	12 53 31
	e(S)·Z	54 06
$\Delta = 3^\circ$ .		
20	eP·Z	21 20 40
$\Delta = 53^\circ$ . Hindu Kush.		
21	e·Z	6 18 26
21	ePKP·Z	8 22 59
$\Delta = 148^\circ$ . Indian Ocean.		
21	iPKP·Z	8 25 20
$\Delta = 148^\circ$ . Indian Ocean.		
21	e·Z	9 03 32
21	ePKP·Z	9 57 33
$\Delta = 148^\circ$ . Indian Ocean.		
21	i·Z	11 42 25
21	i(Sg)·Z	16 15 09
21	e(P)·Z	17 46 59
	e(S)·Z	47 38
$\Delta = 3^\circ$ .		
21	eP·Z	23 09 38
22	e(P)·Z	3 46 01
	e(S)·Z	46 22
$\Delta = 2^\circ$ .		
22	e(P)·Z	20 01 58
22	e·Z	20 03 46
22	iP·Z	20 33 21
	iS·Z	33 41
$\Delta = 2^\circ$ .		
23	iP·Z	5 43 31
	eS·Z	43 57
$\Delta = 2^\circ$ .		
23	e(P)·Z	6 53 17
23	eP·Z	22 29 57
$\Delta = 47^\circ$ . Mediterranean Sea.		
23	i·Z	23 51 39
24	iP·Z	12 37 40
$\Delta = 46^\circ$ . Kamchatka.		

August

24	e·Z	17 <sup>h</sup> 42 <sup>m</sup> 11 <sup>s</sup>
25	e(P)·Z	0 40 21
	e(S)·Z	40 55
$\Delta = 30^\circ$ .		
25	iP·ZNE	22 21 02 C. Z: 10 mm.
	iS·NE	21 23
$\Delta = 2^\circ$ . NW of the station.		
26	eP·Z	0 09 48
Near.		
26	iP·ZNE	8 36 47 C.
	ePP·E	39 09
	iPPP·E	41 05
	iS·NE	45 53
	L·NE	
26	iP·ZNE	8 36 47 C.
	ePP·E	39 09
	iPPP·E	41 04
	iS·NE	45 53
	L·NE	57
$\Delta = 70^\circ$ . Mexico.		
26	eP·ZNE	10 35 45
	eS·NE	42 15
	iScS·NE	45 43
	L·NE	50
$\Delta = 44^\circ$ . Queen Charlotte Islands.		
26	i·Z	16 15 59
	i·Z	16 37
Near.		
26	e·Z	16 39 47
27	e·Z	5 14 48
27	iP·Z	8 03 40
$\Delta = 97^\circ$ . $h = 200$ km. Celebes.		
27	i(P)·Z	11 48 47
Near.		
28	eP·Z	0 04 14
$\Delta = 68^\circ$ . Burma.		
28	e(P)·Z	7 26 37
Near.		
28	eP·Z	12 14 19
$\Delta = 33^\circ$ . Alaska.		
29	e(P)·Z	5 40 32
Probably near.		

August		September	
29	<i>e(P)·Z</i> 7 <sup>h</sup> 37 <sup>m</sup> 31 <sup>s</sup> <i>e(S)·Z</i> 37 58 $\Delta = 2^\circ$ .	3	<i>iP·Z</i> 20 <sup>h</sup> 19 <sup>m</sup> 50 <sup>s</sup> <i>iS·Z</i> 20 13 $\Delta = 2^\circ$ .
29	<i>iP·NE</i> 17 11 10 C. No Z-recording. <i>iPP·NE</i> 13 00 <i>eS·NE</i> 17 33 <i>L·NE</i> 25 $\Delta = 43^\circ$ . Lake Baikal, USSR.	4	<i>eP·Z</i> 7 12 43 <i>iS·Z</i> 13 04 $\Delta = 2^\circ$ .
30	<i>e(P)·Z</i> 9 15 37 <i>e(S)·Z</i> 15 59 $\Delta = 2^\circ$ .	4	<i>e(S)·Z</i> 9 24 27
30	<i>iP·Z</i> 17 16 37 D. 4 mm. <i>iS·Z</i> 17 00 <i>iRg·Z</i> 17 04 $\Delta = 2^\circ$ .	4	<i>i·Z</i> 12 50 08 Near.
30	<i>iP·Z</i> 17 26 37 D. 2 mm. <i>iS·Z</i> 27 00 <i>iRg·Z</i> 27 04 $\Delta = 2^\circ$ .	6	<i>eP·Z</i> 0 41 07 $\Delta = 92^\circ$ . Philippine Islands.
31	<i>eP·Z</i> 9 14 16 $\Delta = 46^\circ$ . Aleutian Islands.	8	<i>e·Z</i> 7 20 35 <i>e·Z</i> 21 35 Two nears?
31	<i>eP·Z</i> 11 47 49 <i>eS·Z</i> 48 15 $\Delta = 2^\circ$ .	8	<i>iP·Z</i> 10 03 31 C. <i>e·Z</i> 11 13 40
September		10	<i>e·Z</i> 3 35 44 <i>i·Z</i> 35 46
1	<i>e·Z</i> 2 23 19	10	<i>iP·Z</i> 3 45 41 D. <i>i·Z</i> 45 59 8 mm. Near.
1	<i>iP·Z</i> 11 00 26 $\Delta = 65^\circ$ . Lesser Antilles.	10	<i>i·Z</i> 4 02 05
1	<i>iP·Z</i> 11 45 39 C. <i>eS·NE</i> 51 59 <i>L·NE</i> 56 $\Delta = 43^\circ$ . Albania.	11	<i>eP·Z</i> 14 25 36 $\Delta = 39^\circ$ . Azores.
2	<i>i·Z</i> 11 14 40 <i>i·Z</i> 14 43	11	<i>i·Z</i> 18 01 54 <i>i·Z</i> 01 56 Near.
3	<i>eP·Z</i> 4 10 01 $\Delta = 43^\circ$ . Albania.	12	<i>L·NE</i> 2 36
3	<i>ePP·NE</i> 6 45 26 <i>eSKS·NE</i> 52 04 <i>eSS·NE</i> 59.7 $\Delta = 101^\circ$ . Celebes.	14	<i>L·NE</i> 9 57
3	<i>e·Z</i> 17 37 53	14	<i>ePKP·Z</i> 14 28 42 <i>e·Z</i> 28 48 <i>ePS·NE</i> 40 55 <i>eSS·NE</i> 47 50 <i>L·NE</i>
		14	<i>ePKP·Z</i> 14 28 42 <i>e·Z</i> 28 48 <i>ePS·NE</i> 40 55 <i>eSS·NE</i> 47 50 <i>L·NE</i> 15 09 $\Delta = 127^\circ$ . Kermadec Islands.

September		September	
15	<i>ePKP·Z</i> 6 <sup>h</sup> 18 <sup>m</sup> 43 <sup>s</sup> <i>eSS·NE</i> 37 37 <i>L·NE</i> 7 01 Repetition.	25	<i>eP·Z</i> 2 <sup>h</sup> 48 <sup>m</sup> 26 <sup>s</sup> <i>i·Z</i> 48 29 <i>i·Z</i> 48 32 <i>L·NE</i> 3 12 $\Delta = 74^\circ$ . Formosa.
15	<i>ePKP·Z</i> 11 23 20 $\Delta = 120^\circ$ . <i>h</i> = 600 km. Fiji Islands.	26	<i>i·Z</i> 6 06 39
16	<i>iP·Z</i> 5 22 37 C. <i>ePcP·Z</i> 24 01 $\Delta = 48^\circ$ . Crete.	26	<i>eP·ZNE</i> 8 29 53 <i>eS·NE</i> 37 13 <i>L·NE</i> 44 $\Delta = 51^\circ$ . Oregon, U.S.A.
17	<i>e·Z</i> 12 19 33	26	<i>e(S)·Z</i> 10 07 34
17	<i>eP·Z</i> 21 36 02 $\Delta = 74^\circ$ . Deeper than normal. San Salvador.	26	<i>iP·Z</i> 12 36 14 C. 3 mm. <i>iS·E</i> 36 28 <i>i·N</i> 36 37 $\Delta \approx 1^\circ$ . South of the station. Several minor aftershocks.
18	<i>eP·Z</i> 23 50 07 <i>e(S)·Z</i> 50 32 $\Delta = 2^\circ$ .	28	<i>iP·Z</i> 1 12 54 $\Delta = 7^\circ$ . Svalbard.
19	<i>eP·Z</i> 8 59 55 <i>e(S)·Z</i> 9 00 13 $\Delta = 2^\circ$ .	28	<i>e·Z</i> 2 55 15 <i>e·Z</i> 55 27 Near.
19	<i>e·Z</i> 11 19 02	28	<i>eP·Z</i> 10 24 57 $\Delta = 48^\circ$ . Turkey.
20	<i>eP·Z</i> 1 20 34 <i>iP·Z</i> 13 43 13 <i>iP·Z</i> 21 05 49 <i>eP·Z</i> 23 52 47 <i>eP·Z</i> 2 21 23 5 near quakes. $\Delta$ abt. $2^\circ$ .	29	<i>L·NE</i> 16 31
20	<i>iS·Z</i> 20 56 <i>eS·Z</i> 43 34 <i>iS·Z</i> 06 10 <i>eS·Z</i> 53 07 <i>eS·Z</i> 21 43	30	<i>iP·Z</i> 2 38 56 D.
23	<i>eP·ZNE</i> 10 42 15 <i>L·NE</i> 45.5 $\Delta = 13^\circ$ . North Polar region.	30	<i>e(P)·Z</i> 6 26 18 <i>e(S)·Z</i> 26 38 $\Delta = 2^\circ$ .
23	<i>iP·Z</i> 13 07 35 <i>iS·Z</i> 08 27 $\Delta = 5^\circ$ .	October	
24	<i>eP·ZNE</i> 5 46 53 <i>L·NE</i> 49.8 $\Delta = 13^\circ$ . North Polar region.	1	<i>iP·Z</i> 10 39 07 <i>iS·Z</i> 39 17 $\Delta = 1^\circ$ .
24	<i>iP·Z</i> 10 33 48 <i>iP·Z</i> 11 57 54 <i>iP·Z</i> 12 58 41 <i>eP·Z</i> 13 13 28 <i>iP·Z</i> 13 43 55 5 near quakes. $\Delta$ abt. $2^\circ$ .	2	<i>e·Z</i> 19 47 40
	<i>iS·Z</i> 58 13 <i>eS·Z</i> 59 02 <i>eS·Z</i> 13 58	3	<i>i·Z</i> 0 27 24
		3	<i>i·Z</i> 10 16 09
		5	<i>eP·Z</i> 8 23 41 <i>eS·Z</i> 24 07 $\Delta = 2^\circ$ .

October

5	<i>eP</i> · <i>ZN</i>	17 <sup>b</sup> 59 <sup>m</sup> 39 <sup>s</sup>	
	<i>i</i> · <i>ZE</i>	59 56	
	<i>L</i> · <i>NE</i>	18 03.5	
	$\Delta = 14^\circ$ . North Polar region.		
5	<i>eP</i> · <i>ZN</i>	18 14 34	
	<i>i</i> · <i>Z</i>	14 52	
	<i>L</i> · <i>NE</i>	18.5	
	Repetition.		
5	<i>iP</i> · <i>ZNE</i>	18 31 04	
	<i>i</i> · <i>Z</i>	31 15	
	<i>iS</i> · <i>NE</i>	33 52	
	<i>L</i> · <i>NE</i>	34.6	
	Repetition. Main shock.		
5	<i>eP</i> · <i>Z</i>	20 31 18	
	Repetition.		
5	<i>iP</i> · <i>Z</i>	20 42 03	
	$\Delta = 43^\circ$ . Albania.		
5	<i>iP</i> · <i>Z</i>	21 48 54	
	<i>eS</i> · <i>Z</i>	49 20	
	$\Delta = 2^\circ$ .		
7	<i>iP</i> · <i>Z</i>	6 11 14	C.
	Near.		
7	<i>iPg</i> · <i>Z</i>	7 01 21.5	
	<i>i</i> · <i>Z</i>	01 24.0	
	<i>iSg</i> · <i>Z</i>	01 28.6	
	<i>i</i> · <i>Z</i>	01 30.1	
	<i>i</i> · <i>Z</i>	01 31.0	
	Probably repetition.		
7	<i>iP</i> · <i>Z</i>	8 38 39	C.
	$\Delta = 43^\circ$ . Albania.		
8	<i>iP</i> · <i>Z</i>	2 43 45	
	$\Delta = 46^\circ$ . Aleutian Islands.		
8	<i>e</i> · <i>Z</i>	4 13 18	
	<i>e</i> · <i>Z</i>	13 23	
	<i>e</i> · <i>Z</i>	13 36	
	<i>e</i> · <i>Z</i>	13 55	
	Two shocks?		
9	<i>iP</i> · <i>Z</i>	2 16 45	
	<i>iS</i> · <i>Z</i>	17 15	
	$\Delta = 3^\circ$ .		
10	<i>e</i> · <i>Z</i>	9 19 16	
11	<i>iP</i> · <i>Z</i>	21 24 32	
	<i>iS</i> · <i>Z</i>	24 53	
	$\Delta = 2^\circ$ .		
12	<i>eP</i> · <i>Z</i>	3 35 01	
	$\Delta = 92^\circ$ . Sumatra.		

October

12	<i>e</i> · <i>Z</i>	3 <sup>b</sup> 38 <sup>m</sup> 22 <sup>s</sup>	
	Near.		
12	<i>i</i> · <i>Z</i>	3 52 10	
	Near.		
12	<i>e(P)</i> · <i>Z</i>	9 32 34	
	<i>e(S)</i> · <i>Z</i>	32 57	
	$\Delta = 2^\circ$ .		
12	<i>ePn</i> · <i>Z</i>	16 55 11	
	<i>ePg</i> · <i>Z</i>	55 22	
	<i>e</i> · <i>Z</i>	55 38	
	<i>iSg</i> · <i>Z</i>	55 42	
	Interpretation doubtful. $\Delta = 3^\circ$ .		
13	<i>i</i> · <i>Z</i>	5 57 31	
13	<i>e</i> · <i>Z</i>	17 01 21	
14	<i>iP</i> · <i>Z</i>	14 18 08	D. 2 mm.
	<i>iS</i> · <i>Z</i>	18 34	5 mm.
	$\Delta = 2^\circ$ .		
15	<i>eP</i> · <i>Z</i>	6 29 01	
	<i>ePP</i> · <i>NE</i>	33 00	
	<i>eSKS</i> · <i>E</i>	39 32	
	<i>eS</i> · <i>N</i>	40 20	
	<i>e</i> · <i>NE</i>	42 32	
	<i>eSS</i> · <i>NE</i>	46.9	
	<i>L</i> · <i>NE</i>	59.5	
	$\Delta = 96^\circ$ . Celebes.		
15	<i>iP</i> · <i>Z</i>	7 49 49	D.
	$\Delta = 54^\circ$ . Kurile Islands.		
15	<i>e(P)</i> · <i>Z</i>	11 51 51	
	<i>e(S)</i> · <i>Z</i>	52 11	
	$\Delta = 2^\circ$ .		
15	<i>eP</i> · <i>Z</i>	20 42 10	
	$\Delta = 46^\circ$ . Aleutian Islands.		
16	<i>iP</i> · <i>Z</i>	5 19 13	D.
	<i>iS</i> · <i>Z</i>	19 33	
	$\Delta = 2^\circ$ .		
17	<i>eP</i> · <i>Z</i>	15 43 08	
	<i>iS</i> · <i>Z</i>	43 28	
	$\Delta = 2^\circ$ .		
18	<i>eP</i> · <i>Z</i>	6 41 49	
	<i>eS</i> · <i>Z</i>	42 10	
	$\Delta = 2^\circ$ .		
18	<i>iP</i> · <i>Z</i>	17 14 56	C.
	$\Delta = 48^\circ$ . Kamchatka.		

October

19	<i>iP</i> · <i>Z</i>	2 <sup>b</sup> 56 <sup>m</sup> 16 <sup>s</sup>	D.
	$\Delta = 54^\circ$ . Kurile Islands.		
19	<i>iPKP</i> · <i>Z</i>	16 14 55	
	<i>L</i> · <i>NE</i>	17 00	
	$\Delta = 136^\circ$ . Sandwich Group.		
21	<i>e(P)</i> · <i>Z</i>	20 10 50	
	<i>e(S)</i> · <i>Z</i>	11 20	
	$\Delta = 3^\circ$ .		
24	<i>iP</i> · <i>Z</i>	11 16 42	1 mm.
	<i>iS</i> · <i>Z</i>	17 03	3 mm.
	$\Delta = 2^\circ$ .		
25	<i>L</i> · <i>NE</i>	0 05	No Z-record.
26	<i>e(P)</i> · <i>Z</i>	4 40 09	
	<i>e(S)</i> · <i>Z</i>	40 25	
	Near.		
26	<i>iP</i> · <i>Z</i>	7 45 19	
	<i>L</i> · <i>NE</i>	8 03	
	$\Delta = 61^\circ$ . Japan.		
26	<i>iP</i> · <i>Z</i>	10 37 27	
	$\Delta = 47^\circ$ . $h = 150$ km. Kamchatka.		
26	<i>iP</i> · <i>Z</i>	12 55 30	
	<i>i</i> · <i>Z</i>	56 21	5 mm.
	<i>i</i> · <i>Z</i>	56 28	
	$\Delta$ abt. $4^\circ$ .		
27	<i>iP</i> · <i>Z</i>	7 01 58	
	$\Delta = 53^\circ$ . $h = 100$ km. Kurile Islands.		
27	<i>iP</i> · <i>Z</i>	8 03 45	
	<i>iS</i> · <i>Z</i>	04 06	8 mm.
	$\Delta = 2^\circ$ .		
27	<i>e</i> · <i>Z</i>	8 43 32	
27	<i>iP</i> · <i>Z</i>	14 13 36	
	$\Delta = 3^\circ$ . SSE of the station.		
27	<i>iP</i> · <i>Z</i>	14 21 35	
27	<i>i</i> · <i>Z</i>	23 08 02	
	<i>i</i> · <i>Z</i>	08 05	
28	<i>iP</i> · <i>Z</i>	11 42 17	
	<i>iS</i> · <i>Z</i>	42 59	
	$\Delta = 4^\circ$ .		
29	<i>iP</i> · <i>Z</i>	11 58 24	C.
	<i>i</i> · <i>Z</i>	58 27	
	Near.		

October

29	<i>iP</i> · <i>Z</i>	14 <sup>b</sup> 39 <sup>m</sup> 04 <sup>s</sup>	C. 3 mm.
	<i>ipP</i> · <i>Z</i>	40 51	
	<i>iScP</i> · <i>Z</i>	43 02	
	<i>iS</i> · <i>NE</i>	46 02	
	$\Delta = 55^\circ$ . $h = 550$ km. China-Korea border.		
30	<i>eP</i> · <i>Z</i>	4 06 55	
	$\Delta = 32^\circ$ . Yakut. ASSR.		
30	<i>iP</i> · <i>Z</i>	22 25 22	
	<i>i(S)</i> · <i>Z</i>	25 42	
	$\Delta = 2^\circ$ .		
31	<i>iP</i> · <i>Z</i>	19 32 37	12 mm.
	Near.		
November			
1	<i>iP</i> · <i>Z</i>	9 27 20	C. Trace disapp.
	<i>iS</i> · <i>E</i>	27 49	
	<i>i</i> · <i>NE</i>	27 55	
	<i>M</i> · <i>NE</i>	28 12	
	$\Delta =$ abt. $3^\circ$ . South of the station.		
1	<i>e(P)</i> · <i>Z</i>	10 15 38	
	<i>e(S)</i> · <i>Z</i>	16 10	
	Aftershock?		
4	<i>iP</i> · <i>Z</i>	21 31 01	D. 2 mm.
5	<i>e(P)</i> · <i>Z</i>	14 36 18	
	<i>e(S)</i> · <i>Z</i>	36 53	
	$\Delta = 3^\circ$ .		
5	<i>iP</i> · <i>Z</i>	15 10 05	
	$\Delta = 67^\circ$ . $h = 250$ km. Ryukyu Islands.		
8	<i>L</i> · <i>NE</i>	14 20	No Z-record.
11	<i>i(Pn)</i> · <i>Z</i>	8 22 53	
	<i>i(Pg)</i> · <i>Z</i>	23 00	
	<i>i(Sg)</i> · <i>Z</i>	23 30	
	$\Delta = 2\frac{1}{2}^\circ$ .		
11	<i>iP</i> · <i>Z</i>	20 03 25	
	<i>iS</i> · <i>Z</i>	03 45	
	$\Delta = 2^\circ$ .		
12	<i>ePn</i> · <i>Z</i>	23 59 50	
	<i>iP*</i> · <i>Z</i>	59 54	
	<i>ePg</i> · <i>Z</i>	59 57	
	<i>iSn</i> · <i>Z</i>	60 22	
	<i>iS*</i> · <i>Z</i>	60 26	
	<i>iSg</i> · <i>Z</i>	60 31	
	$\Delta = 2\frac{1}{2}^\circ$ .		

November

13	<i>ePn</i> ·Z	12 <sup>h</sup> 36 <sup>m</sup> 48 <sup>s</sup>	
	<i>iP*</i> ·Z	36 52	
	<i>ePg</i> ·Z	36 57	
	<i>eS</i> ·Z	37 17	
	<i>eS</i> ·Z	37 22	
		$\Delta = 2\frac{1}{2}^\circ$	
13	<i>iP</i> ·Z	20 02 05	
	<i>e(S)</i> ·Z	02 23	
		$\Delta = 2^\circ$	
15	<i>iP</i> ·Z	10 34 23	C.
	<i>eS</i> ·E	41 45	
	<i>L</i> ·NE	52	
		$\Delta = 53^\circ$	Kashgar, China.
15	<i>iP</i> ·ZNE	17 17 08	C.
	<i>iS</i> ·NE	23 49	N: +, E: +.
	<i>iSS</i> ·NE	26 59	
	<i>L</i> ·NE	29.4	
		$\Delta = 46^\circ$	Ionian Sea.
15	<i>L</i> ·NE	19 56	
16	<i>i</i> ·Z	11 52 16	
17	<i>e</i> ·Z	5 55 19	
17	<i>i</i> ·Z	6 00 31	
	<i>e</i> ·Z	02 22	
		Probably two shocks.	
19	<i>L</i> ·NE	19 50	
19	<i>iP</i> ·Z	14 08 48	D.
		$\Delta = 46^\circ$	Turkey.
20	<i>i(P)</i> ·Z	4 10 30	
	<i>e(S)</i> ·Z	10 44	
		Near.	
22	<i>iP</i> ·Z	6 20 12	
	<i>iS</i> ·Z	20 29	
		$\Delta = 2^\circ$	
22	<i>ePKP</i> ·Z	16 46 19	
		$\Delta = 147^\circ$	Pacific Ocean.
22	<i>iPKP</i> ·Z	19 52 25	
		$\Delta = 119^\circ$	$h = 550$ km. Fiji Islands.
23	<i>iP</i> ·Z	6 29 22	
		Trace disapp.	Very near.
23	<i>e</i> ·Z	23 42 30	
		Near.	

November

24	<i>iPn</i> ·Z	00 <sup>h</sup> 14 <sup>m</sup> 54 <sup>s</sup>	
	<i>iP*</i> ·Z	14 56	
	<i>iPg</i> ·Z	14 58	
	<i>iS</i> ·Z	15 26	
		$\Delta = 2^\circ$	
25	<i>eP</i> ·Z	19 17 25	
		$\Delta = 91^\circ$	Philippine Islands.
26	<i>iP</i> ·Z	3 30 16	C.
		Very near.	
26	<i>eP</i> ·Z	7 20 04	
	<i>L</i> ·NE	55	
		$\Delta = 100^\circ$	Sumatra.
26	<i>eP</i> ·Z	23 23 08	
	<i>e</i> ·Z	26 19	
	<i>ePP</i> ·Z	27 13	
	<i>L</i> ·NE	57	
		Repetition.	
27	<i>eP</i> ·Z	0 30 46	
		$\Delta = 45^\circ$	Greece.
27	<i>iP</i> ·Z	0 34 36	
		Repetition.	
27	<i>iP</i> ·Z	3 36 07	C.
		$\Delta = 49^\circ$	Rhodes, Greece.
30	<i>eP</i> ·Z	11 21 32	
		$\Delta = 48^\circ$	Sinkiang, China.
December			
1	<i>iP</i> ·Z	12 47 10	
		$\Delta = 46^\circ$	Greece.
1	<i>iP</i> ·Z	14 30 05	Trace disapp.
		Near.	
1	<i>iP</i> ·Z	18 24 15	C.
		$\Delta = 92^\circ$	$h = 400$ km. Philippine Islands.
2	<i>eP</i> ·Z	9 47 35	
	<i>eSKS</i> ·NE	58 13	
	<i>ePS</i> ·N	10 00 23	
	<i>L</i> ·NE	20	
		$\Delta = 98^\circ$	Celebes.
3	<i>e(P)</i> ·Z	17 01 43	
	<i>eS</i> ·Z	02 03	
		$\Delta = 2^\circ$	
6	<i>i(P)</i> ·Z	0 38 10	
	<i>iS</i> ·Z	38 49	
		$\Delta = 3^\circ$	

December

8	<i>eP</i> ·Z	3 <sup>h</sup> 10 <sup>m</sup> 11 <sup>s</sup>	
		$\Delta = 62^\circ$	Japan.
8	<i>eP</i> ·Z	8 11 52	
		$\Delta = 15^\circ$	North of Iceland.
8	<i>e</i> ·Z	11 36 04	
8	<i>eP</i> ·Z	13 42 13	
		$\Delta = 45^\circ$	Georgia, U.S.S.R.
9	<i>iP</i> ·Z	9 45 36	C. 5 mm.
	<i>e(S)</i> ·Z	45 54	
		$\Delta = 2^\circ$	
14	<i>e(P)</i> ·Z	12 57 39	
	<i>e(S)</i> ·Z	58 11	
		$\Delta = 3^\circ$	
14	<i>eP</i> ·Z	18 11 22	D.
		$\Delta = 91^\circ$	$h = 200$ km. Philippine Islands.
✓14	<i>eP</i> ·Z	22 09 12	D.
	<i>L</i> ·NE	23	
	<i>M</i> ·NE	27	20 <sup>s</sup> . N: 60 $\mu$ , E: 40 $\mu$ .
		$\Delta = 46^\circ$	$M = 6.6$ . Aleutian Islands.
14	<i>ePKP</i> ·Z	23 41 23	
	<i>i</i> ·NE	41 27	
	<i>iPKS</i> ·N	45 09	
	<i>L</i> ·NE	24 24	
		$\Delta = 141^\circ$	Sandwich Group.
15	<i>e</i> ·Z	4 57 25	
17	<i>i(P)</i> ·Z	1 34 21	
		Near.	
17	<i>eP</i> ·Z	5 14 39	
		$\Delta = 58^\circ$	Japan.
17	<i>i</i> ·Z	17 45 08	
18	<i>iP</i> ·Z	16 33 11	
	<i>L</i> ·NE	48	
		$\Delta = 45^\circ$	Aleutian Islands.
✓21	<i>eP</i> ·ZNE	11 30 47	
	<i>eS</i> ·NE	40 17	
	<i>eSS</i> ·NE	45.1	
	<i>L</i> ·NE	55	
	<i>M</i> ·NE	12 03	20 <sup>s</sup> . N: 75 $\mu$ , E: 50 $\mu$ .
		$\Delta = 73^\circ$	$M = 7.2$ . Gulf of Aden.
23	<i>e(P)</i> ·Z	1 30 13	

December

23	<i>e</i> ·Z	1 <sup>h</sup> 32 <sup>m</sup> 49 <sup>s</sup>	
23	<i>iP</i> ·Z	3 56 43	C.
		$\Delta = 41^\circ$	Alaska Peninsula.
23	<i>eP</i> ·Z	12 44 43	
	<i>e(S)</i> ·Z	45 52	
		$\Delta = 6^\circ$	North of Greenland.
23	<i>e</i> ·Z	12 55 52	
23	<i>e(P)</i> ·Z	23 22 45	
	<i>eS</i> ·Z	23 13	
		$\Delta = 3^\circ$	
24	<i>iP</i> ·Z	9 40 02	
		Near.	
24	<i>eP</i> ·Z	13 21 25	
		$\Delta = 88^\circ$	Philippine Islands.
24	<i>e(P)</i> ·Z	22 55 31	
	<i>e(S)</i> ·Z	55 51	
		$\Delta = 2^\circ$	
26	<i>eP</i> ·Z	18 26 18	
	<i>L</i> ·NE	36	
		$\Delta = 37^\circ$	Alaska.
26	<i>eP</i> ·Z	22 10 59	
		$\Delta = 46^\circ$	Kamchatka.
27	<i>eP</i> ·Z	5 31 27	
		$\Delta = 49^\circ$	Crete.
27	<i>eP</i> ·Z	7 00 02	
		$\Delta = 46^\circ$	Kamchatka.
27	<i>eP</i> ·Z	12 03 15	
		$\Delta = 46^\circ$	Kamchatka.
27	<i>ePKP</i> ·Z	12 56 39	
		$\Delta = 112^\circ$	$h = 650$ km. Argentina.
✓27	<i>iP</i> ·ZNE	16 00 53	C.
	<i>ePP</i> ·NE	02 33	
	<i>iS</i> ·NE	07 16	
	<i>eSS</i> ·NE	10 33	
	<i>L</i> ·NE	13	
	<i>M</i> ·NE	19	20 <sup>s</sup> . N: 100 $\mu$ , E: 100 $\mu$ .
		$\Delta = 43^\circ$	$M = 6.9$ . Kamchatka.
28	<i>iP</i> ·Z	0 46 18	D.
		Near.	



Nord 1959

December	
28 <i>eP</i> -Z	7 <sup>h</sup> 28 <sup>m</sup> 58 <sup>s</sup>
<i>eS</i> -NE	35 40
<i>L</i> -NE	43
<i>M</i> -NE	48
<i>A</i> = 46°.	<i>M</i> = 6.5 Kamchatka.
	20 <sup>s</sup> . <i>N</i> : 50 $\mu$ , <i>E</i> : 50 $\mu$ .
28 <i>eP</i> -Z	13 12 57
<i>L</i> -NE	30
<i>A</i> = 46°.	Kamchatka.
28 <i>e</i> -Z	21 38 29
	Near.
29 <i>i</i> -Z	1 54 18

December	
29 <i>eP</i> -Z	20 <sup>h</sup> 46 <sup>m</sup> 46 <sup>s</sup>
	<i>A</i> = 80°. <i>h</i> = 350 km. Mariana Islands.
30 <i>i(P)</i> -Z	10 07 37
<i>i(S)</i> -Z	07 57
	<i>A</i> = 2°.
31 <i>iP</i> -Z	11 10 20
	<i>C</i> . 8 mm.
	Very near.

June 1962.

HENRY JENSEN.

Microseisms. Nord

1959	N				E				1959
	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	
July									July
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0	2 0.1 5.5	0.0	0.0	0.0	3 0.1 6.5	4
5	2 0.1 5.1	2 0.1 5.4	2 0.1 5.6	2 0.1 5.6	2 0.1 5.1	2 0.1 5.3	2 0.1 5.5	2 0.1 5.4	5
6	2 0.1 4.8	0.1	0.0	0.0	0.1	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	2 0.1 5.-	2 0.1 5.-	0.0	0.0	0.1	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	2 0.1 4.4	0.0	0.0	0.0	2 0.1 4.7	17
18	2 0.1 4.6	2 0.1 4.4	2 0.1 3.9	2 0.1 3.8	3 0.1 4.5	3 0.1 4.5	2 0.1 4.0	2 0.1 4.0	18
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	.. ..	2 0.1 4.0	2 0.2 4.1	2 0.1 4.2	.. ..	2 0.1 4.3	2 0.2 4.2	2 0.2 4.3	22
23	.. ..	2 0.1 4.1	0.0	0.0	.. ..	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	2 0.1 4.8	2 0.1 4.8	2 0.2 4.0	2 0.2 4.5	2 0.1 4.8	2 0.1 4.9	2 0.2 4.2	2 0.2 4.4	26
27	3 0.2 4.5	3 0.2 4.3	2 0.2 5.0	2 0.2 4.4	3 0.3 4.5	3 0.2 4.4	3 0.3 4.8	2 0.3 4.3	27
28	2 0.2 4.5	2 0.1 4.2	2 0.1 4.2	2 0.1 4.2	2 0.2 4.9	2 0.2 4.9	2 0.1 4.3	2 0.1 4.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
August									August
1	2 0.1 4.9	2 0.1 4.7	2 0.1 4.9	2 0.1 4.7	2 0.1 4.7	2 0.1 4.7	3 0.2 4.5	2 0.1 4.8	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.0	2 0.1 5.4	0.0	0.0	0.0	2 0.1 5.3	3
4	2 0.1 4.5	2 0.1 4.8	2 0.1 4.2	2 0.1 4.1	2 0.1 4.9	2 0.1 4.8	2 0.1 4.3	2 0.1 4.5	4
5	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	5
6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	2 0.1 4.0	0.0	0.0	0.0	0.1	9
10	0.0	0.0	0.1	0.1	0.0	0.0	0.1	2 0.1 4.5	10
11	2 0.1 4.7	2 0.1 4.5	2 0.1 4.7	2 0.1 5.0	2 0.1 4.6	2 0.1 4.6	2 0.1 4.5	2 0.1 4.5	11
12	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	12
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.1	3 0.1 5.0	2 0.1 4.6	0.0	0.1	0.1	2 0.1 5.0	15
16	2 0.1 4.8	2 0.1 5.0	2 0.1 5.3	2 0.1 5.7	2 0.1 5.1	2 0.1 4.8	2 0.1 4.7	2 0.1 4.8	16
17	2 0.1 5.1	2 0.2 5.3	2 0.1 5.3	2 0.1 5.8	2 0.1 5.5	2 0.1 6.0	2 0.2 5.9	2 0.1 5.5	17
18	2 0.1 5.8	2 0.1 5.5	2 0.1 5.7	2 0.1 5.4	2 0.1 5.5	2 0.1 5.4	2 0.1 5.5	2 0.1 5.5	18
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	2 0.1 4.7	2 0.1 4.8	2 0.2 4.3	2 0.2 5.2	0.0	2 0.1 4.8	2 0.1 5.0	2 0.1 5.3	20
21	2 0.2 5.5	2 0.2 5.4	3 0.2 4.4	2 0.1 4.0	2 0.1 5.6	2 0.1 5.4	3 0.1 4.1	2 0.1 4.7	21
22	2 0.1 4.6	2 0.1 4.6	2 0.1 4.5	2 0.1 4.5	2 0.1 4.6	2 0.1 4.8	2 0.1 4.6	2 0.1 4.7	22
23	2 0.1 4.6	2 0.1 4.7	2 0.1 4.6	2 0.1 5.1	2 0.1 4.9	2 p.1 4.4	2 0.1 4.8	2 0.1 4.8	23
24	2 0.1 4.7	2 0.1 4.5	2 0.1 5.0	2 0.1 5.0	2 0.1 4.9	2 0.1 5.1	2 p.1 5.0	2 0.1 4.8	24



Microseisms. Nord

1959 Decbr.	N				E				1959 Decbr.
	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	
9	1 1.6 6.6	3 1.3 6.8	3 1.4 6.6	3 1.0 6.5	3 1.0 6.8	3 0.9 6.2	3 1.0 5.9	3 0.7 5.5	9
10	3 0.7 5.5	3 0.9 5.4	3 1.0 5.4	3 1.1 6.3	3 0.8 5.3	3 0.8 5.5	3 0.7 5.3	3 0.8 5.8	10
11	.. ..	3 1.0 6.5	3 0.8 5.5	3 0.4 4.3	3 0.9 5.3	3 0.6 4.5	3 0.5 4.8	3 0.3 4.3	11
12	3 0.4 5.0	3 0.3 5.3	3 0.5 5.1	2 0.5 4.7	3 0.3 4.5	3 0.3 4.6	3 0.4 4.5	3 0.5 5.0	12
12	1 0.7 5.2	3 0.6 5.1	3 0.3 4.6	3 0.3 4.9	3 0.5 4.9	3 0.5 4.5	3 0.3 4.3	3 0.2 4.6	13
14	3 0.3 5.3	3 0.6 5.8	3 0.9 5.8	3 0.7 5.4	3 0.4 5.0	3 0.4 5.1	3 0.5 5.0	3 0.4 5.6	14
15	.. ..	1 1.6 6.6	1 1.5 6.6	1 1.0 6.8	.. ..	1 0.9 5.8	1 1.0 6.8	1 0.8 6.0	15
16	1 1.2 6.7	1 1.2 6.6	2 0.9 5.8	2 0.6 5.9	1 1.1 6.5	3 0.9 5.8	2 0.6 5.8	2 0.6 6.0	16
17	1 0.9 6.3	1 1.3 5.8	1 1.4 7.0	1 2.4 7.3	3 0.5 5.5	3 0.5 5.9	1 1.1 7.5	1 1.6 7.0	17
18	1 2.3 7.4	1 1.5 6.5	1 1.2 6.1	1 1.1 6.5	1 1.3 7.2	3 0.7 6.5	1 0.9 5.6	3 0.7 5.8	18
19	1 1.1 6.1	3 1.2 6.0	1 1.4 5.5	1 1.3 6.3	1 1.0 6.0	1 0.9 6.0	1 1.0 5.7	1 0.9 6.3	19
20	.. ..	1 2.1 6.2	1 1.8 6.3	1 1.1 6.6	.. ..	1 1.8 5.9	1 1.4 6.6	1 1.0 6.3	20
21	.. ..	3 0.6 6.3	.. ..	3 0.6 5.3	.. ..	3 0.6 5.8	.. ..	3 0.5 6.0	21
22	3 0.6 5.3	3 0.6 5.4	3 0.5 5.5	3 0.5 5.6	3 0.5 5.2	3 0.7 6.0	3 0.6 5.6	3 0.5 6.0	22
23	3 0.6 5.3	3 0.9 5.9	3 1.1 5.8	1 1.0 5.5	3 0.5 5.5	3 0.9 5.8	3 1.2 5.8	3 1.0 5.8	23
24	3 1.1 6.0	2 0.9 5.8	2 0.8 6.0	2 0.6 5.3	1 1.2 6.3	2 1.0 6.3	2 0.7 6.2	3 0.6 5.5	24
25	3 0.4 4.8	3 0.4 5.0	3 0.3 5.2	3 0.2 5.0	3 0.6 4.6	3 0.4 4.9	3 0.4 5.0	3 0.2 5.-	25
26	3 0.3 5.3	3 0.2 5.4	2 0.2 5.6	3 0.2 5.4	3 0.3 5.7	3 0.2 5.7	3 0.2 5.4	3 0.2 5.-	26
27	3 0.3 5.8	3 0.3 5.3	3 0.2 5.5	3 0.3 5.3	3 0.2 5.3	3 0.3 5.2	3 0.3 5.3	3 0.3 5.0	27
28	3 0.5 5.0	1 0.9 5.3	2 0.7 5.2	2 0.6 4.8	2 0.5 5.5	1 0.8 5.5	3 0.7 4.8	2 0.7 5.3	28
29	2 0.7 5.2	2 0.5 5.0	2 0.5 4.8	2 0.4 5.3	2 0.6 4.7	2 0.6 5.3	2 0.5 5.4	2 0.4 5.0	29
30	3 0.5 5.0	3 0.5 5.0	2 0.6 6.2	2 0.5 6.3	3 0.5 5.6	3 0.5 5.6	3 0.6 6.5	3 0.5 6.5	30
31	3 0.6 6.2	3 0.4 6.0	3 0.3 5.9	3 0.4 6.2	3 0.6 5.8	3 0.6 5.5	3 0.4 6.3	3 0.4 5.9	31

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