



GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

SCORESBYSUND

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

Lithologic foundation: gneiss

Instruments

Galitzin-Wilip. *N* and *E*. $T_p = T_g = 12 \text{ sec.}$ $\mu^2 = 0,$ $\frac{Ak}{\pi l} = 300$ or V_{\max} abt. 1000.Galitzin-Wilip. *Z*. $T_p = 9 \text{ sec.}$ $T_g = 10 \text{ sec.}$ $\mu^2 = 0,$ $\frac{Ak}{\pi l} = 200$ or V_{\max} abt. 600.Grenet *Z'*. $T_p = 1.4 \text{ sec.}$ $T_g = \frac{1}{4} \text{ sec.}$ V_{\max} abt. 30000.

Seismological Readings

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often due to BCIS or USCGS. The periods given are periods of full oscillations. The amplitudes are single amplitudes of the ground in microns. + 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

2	<i>iP·Z'</i>	0 ^h 48 ^m 57 ^s	
	<i>eS·NE</i>	56 52	
	<i>iScS·E</i>	58 57	
	<i>iSS·N</i>	1 00 52	
	<i>L·NE</i>	06	
	<i>M·NE</i>	16	16 ^s . 20 μ .
	$\Delta = 56^\circ$. Aleutian Islands.		
2	<i>iP·Z'Z</i>	2 27 12	
	<i>eS·NE</i>	34 52	
	<i>iScS·E</i>	37 07	
	<i>iSS·N</i>	38 47	
	<i>L·NE</i>	44	
	<i>M·NE</i>	55	15 ^s . 30 μ .
	Repetition.		
2	<i>eP·Z'</i>	3 22 26	
	<i>i·Z'</i>	22 28	
	Repetition.		
2	<i>iP·Z'</i>	3 40 07	
	Repetition.		
2	<i>iP·Z'</i>	3 50 41	
	Repetition.		
2	<i>eP·Z'</i>	3 58 18	
	<i>i·Z'</i>	58 21	
	<i>M·NE</i>	4 20	17 ^s . N: 35 μ , E: 50 μ .
	Repetition. (Main shock.)		
2	<i>iP·Z'</i>	4 13 04	
	Repetition.		
2	<i>iP·Z'</i>	10 59 06	
	<i>L·NE</i>	11 16	
	Repetition.		
No recording 2 ^d 12 ^h —2 ^d 20 ^h .			
3	<i>iP·Z'</i>	0 50 34	
	<i>L·NE</i>	1 09	
	Repetition.		
3	<i>eP·Z</i>	12 58 06	
	<i>i·Z'N</i>	58 08	
	<i>ipP·Z'ZN</i>	13 00 06	
	<i>ipPP·Z</i>	00 36	
	<i>iS·NE</i>	06 02	
	<i>iS·E</i>	09 31	
	<i>ePKPPKP·Z'</i>	26 54	
	$\Delta = 64^\circ$. $h = 600$ km. Southern Manchuria.		

January

8	<i>eP·Z'</i>	17 ^h 39 ^m 11 ^s	
	$\Delta = 56^\circ$. Aleutian Islands.		
9	<i>eP·Z'</i>	8 02 29	
	<i>L·NE</i>	20	
	$\Delta = 55^\circ$. Aleutian Islands.		
9	<i>eP·Z'</i>	10 39.3	
	$\Delta = 74^\circ$. Japan.		
13	<i>eP·Z'</i>	12 31 58	
	$\Delta = 76^\circ$. Japan.		
17	<i>iP·Z'</i>	22 37 59	
	<i>epP·Z'</i>	39 22	
	$\Delta = 75^\circ$. $h = 350$ km. Japan.		
19	<i>ePKP·Z'</i>	5 34 37	
	$\Delta = 130^\circ$. $h = 650$ km. Fiji Islands.		
22	<i>eP·Z'</i>	11 30 52	
	$\Delta = 82^\circ$. Belgian Congo.		
23	<i>iP·Z'</i>	17 34 35	
	$\Delta = 42^\circ$. Greece.		
25	<i>L·ZNE</i>	4.1	
31	<i>i·Z'</i>	19 56 05	
February			
2	<i>e(Pn)·Z'</i>	1 54 48	
	<i>e(Pg)·Z'</i>	54 53	
	<i>e(Sn)·Z'</i>	55 17	
	$\Delta = 2\frac{1}{2}^\circ$. North of Iceland.		
5	<i>iP·Z'</i>	4 59 56	
	$\Delta = 48^\circ$. Mid Atlantic Ocean.		
6	<i>L·NE</i>	13 46	
6	<i>eP·Z'</i>	20 44 23	
	<i>Z·NE</i>	21 02	
	$\Delta = 54^\circ$. Lake Baikal region.		
9	<i>iPKP·Z'</i>	13 48 40	
	$\Delta = 142^\circ$. $h = 150$ km. New Zealand.		
10	<i>eP·Z'</i>	5 55 07	
	<i>ePcP·Z'</i>	57 28	
	$\Delta = 35^\circ$. Azores region.		

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February

10	<i>iP·Z'</i>	22 ^h 45 ^m 49 ^s	
	$\Delta = 97^\circ$. Philippine Islands.		
10	<i>iP·Z'</i>	23 04 26	
	Repetition. (Main shock.)		
11	<i>eP·Z'</i>	1 28 17	
	Repetition.		
11	<i>eP·Z'</i>	3 58 08	
	Repetition.		
11	<i>eP·Z'</i>	14 39 12	
	Repetition.		
12	<i>eP·Z'</i>	9 03 07	
	<i>e·Z'</i>	03 24	
	$\Delta = 61^\circ$. Kurile Islands.		
13	<i>eP·Z'</i>	0 43 24	
	$\Delta = 97^\circ$. Philippine Islands.		
13	<i>e(P)·Z'</i>	17 15 52	
	<i>e(Rg)·Z'</i>	16 57	
	$\Delta = 3^\circ(?)$.		
17	<i>iP·Z'</i>	15 57 55	
	<i>L·NE</i>	16 24	
	$\Delta = 70^\circ$. Mexico.		
18	<i>iP·Z'</i>	14 58 04	
	$\Delta = 47^\circ$. Mid Atlantic Ocean.		
19	<i>iP·Z'</i>	0 02 44	
	$\Delta = 90^\circ$. $h = 100$ km. Peru.		
19	<i>eP·Z'</i>	7 51 44	
	<i>i·Z'</i>	51 47	
	<i>eS·NE</i>	58 02	
	<i>eSS·NE</i>	8 01 27	
	<i>L·NE</i>	04	
	$\Delta = 42^\circ$. Greece.		
19	<i>L·NE</i>	20 26	
20	<i>L·NE</i>	5 00	
20	<i>L·NE</i>	22 48	
21	<i>iP·Z'</i>	14 39 31	
	<i>ipP·Z'</i>	40 02	
	<i>eSS·N</i>	51.7	
	<i>L·E</i>	56	
	$\Delta = 55^\circ$. $h = 100$ km. Aleutian Islands.		

February

23	<i>eP·Z'</i>	20 ^h 38 ^m 33 ^s	
	<i>i·Z'</i>	39 01	
	<i>ePP·Z'</i>	42 05	
	<i>iS·E</i>	48 50	
	<i>iPS·E</i>	49 24	
	<i>iSS·E</i>	53 44	
	<i>i·E</i>	54 46	
	<i>i·E</i>	21 00 36	
	<i>L·NE</i>	10	
	$\Delta = 82^\circ$. Formosa.		

March

2	<i>eP·Z'Z</i>	0 37 55	
	<i>eS·NE</i>	46 24	
	<i>i·NE</i>	46 29	
	<i>i·N</i>	47 14	
	<i>iSKS·E</i>	47 49	
	<i>eSS·NE</i>	50 27	
	<i>L·NE</i>	57	
	$\Delta = 62^\circ$. Jamaica.		
5	<i>eP·Z'</i>	12 32 03	
	<i>eS·NE</i>	38 10	
	<i>eSS·NE</i>	41.1	
	<i>L·NE</i>	44	
	$\Delta = 40^\circ$. North Atlantic Ocean.		
8	<i>iP·Z'ZNE</i>	12 21 41	
	<i>iPP·NE</i>	23 15	8 ^s . N: 4 μ , E: 6 μ .
	<i>eS·E</i>	27 43	
	<i>eSS·NE</i>	30 24	cf. PP in next shock.
	$\Delta = 39^\circ$. Greece.		
8	<i>iP·Z'</i>	12 28 40	
	<i>iPP·NE</i>	30 07	8 ^s . N: 5 μ , E: 10 μ .
	<i>eS·NE</i>	34 42	
	<i>iSS·NE</i>	37 38	16 ^s . N: 80 μ , E: 12 μ .
	<i>M·N</i>	46	15 ^s , 20 μ .
	<i>M·E</i>	48	15 ^s , 20 μ .
	$\Delta = 39^\circ$. Greece.		
8	<i>i(P)·Z'</i>	19 15 49	Seismic?
8	<i>eP·Z'</i>	20 45 26	
	$\Delta = 39^\circ$. Greece.		
8	<i>iP·Z'</i>	23 42 36	
	<i>iPP·E</i>	44 12	
	<i>L·NE</i>	54	
	<i>M·NE</i>	24 02	15 ^s . N: 6 μ , E: 6 μ .
	$\Delta = 39^\circ$. Greece.		

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March	
9	<i>iP·Z'</i> 14 ^h 32 ^m 12 ^s <i>iS·Z'</i> 40 05 <i>M·ZNE</i> 57 20°. <i>Z</i> : 135 μ , <i>N</i> : 325 μ , <i>E</i> : 325 μ . $\Delta = 57^\circ$. <i>M</i> = 7 ³ / ₄ . Aleutian Islands.
9	<i>iP·Z'</i> 15 01 44 <i>iP·Z'</i> 15 19 47 <i>eP·Z'</i> 15 29 09 <i>iP·Z'</i> 15 51 44 <i>eP·Z'</i> 15 57 34 <i>iP·Z'</i> 15 57 46 <i>iP·Z'</i> 16 10 15 <i>iP·Z'</i> 16 15 49 <i>eP·Z'</i> 16 21 44 <i>eP·Z'</i> 16 31 21 <i>eP·Z'</i> 16 42 24 <i>eP·Z'</i> 16 48 00 <i>eP·Z'</i> 16 55 27 <i>eP·Z'</i> 17 19 56 <i>eP·Z'</i> 18 06 48 <i>eP·Z'</i> 19 14 09 <i>eP·Z'</i> 19 19 40 <i>eP·Z'</i> 19 23 05 <i>eP·Z'</i> 19 28 51 <i>iP·Z'</i> 19 44 25 <i>eP·Z'</i> 19 48 12 <i>iP·Z'</i> 19 51 58 <i>eP·Z'</i> 20 10 42 <i>iP·Z'</i> 20 31 40 24 shocks from Aleutian Islands.
9	<i>iP·Z'</i> 20 48 51 <i>iS·E</i> 56 37 no <i>N</i> -record. <i>L·E</i> 21 05 <i>M·ZE</i> 12 20°. <i>Z</i> : 60 μ , <i>E</i> : 80 μ . $\Delta = 56^\circ$. <i>M</i> = 7. Aleutian Islands.
9	<i>eP·Z'</i> 20 53 52 <i>iP·Z'</i> 21 32 24 <i>iP·Z'</i> 22 05 55 <i>eP·Z'</i> 23 09 12 <i>eP·Z'</i> 23 19 01
10	<i>eP·Z'</i> 1 31 41 <i>eP·Z'</i> 1 55 28 <i>eP·Z'</i> 2 32 04 8 shocks from Aleutian Islands.
10	<i>eP·Z'</i> 3 15 54 <i>eS·N</i> 23 43 <i>e·E</i> 23 55 <i>i(ScS)·E</i> 25 49 <i>eSS·NE</i> 27.6 <i>L·NE</i> 34 <i>M·NE</i> 41 20°. <i>N</i> : 20 μ , <i>E</i> : 20 μ . $\Delta = 56^\circ$. <i>M</i> = 6 ¹ / ₂ . Aleutian Islands.

March	
10	<i>eP·Z'</i> 3 ^h 18 ^m 34 ^s <i>eP·Z'</i> 4 03 57 <i>eP·Z'</i> 4 50 41 <i>eP·Z'</i> 6 30 27 <i>eP·Z'</i> 6 30 37 <i>eP·Z'</i> 6 33 37 <i>eP·Z'</i> 7 41 04 7 shocks from Aleutian Islands.
10	<i>eP·Z'</i> 11 30 27 <i>eS·N</i> 38 30 <i>eSS·NE</i> 42.6 <i>L·NE</i> 49 $\Delta = 57^\circ$. Aleutian Islands.
10	<i>eP·Z'</i> 12 22 24 Aleutian Islands.
10	<i>eP·Z'</i> 12 45 52 <i>eS·N</i> 53 52 <i>L·NE</i> 13 05 $\Delta = 57^\circ$. Aleutian Islands.
10	<i>eP·Z'</i> 12 55 26 <i>eP·Z'</i> 13 20 07 <i>iP·Z'</i> 15 36 05 <i>eP·Z'</i> 15 58 09 <i>eP·Z'</i> 15 58 19 <i>eP·Z'</i> 16 49 30 <i>eP·Z'</i> 19 28 24 <i>eP·Z'</i> 21 06 29
11	<i>iP·Z'</i> 0 06 22 <i>eP·Z'</i> 0 17 47 10 shocks from Aleutian Islands.
11	<i>eP·Z'</i> 3 22 35 <i>eS·N</i> 30 33 <i>eScS·NE</i> 32 15 <i>eSS·NE</i> 34 07 <i>L·N</i> 41 <i>M·NE</i> 47 20°. <i>N</i> : 60 μ , <i>E</i> : 50 μ . $\Delta = 57^\circ$. <i>M</i> = 7. Aleutian Islands.
11	<i>eP·Z'</i> 6 52 27 $\Delta = 57^\circ$. Aleutian Islands.
11	<i>eP·Z'E</i> 10 08 17 <i>i·Z'ZN</i> 08 19 <i>i·E</i> 15 40 <i>i·N</i> 15 52 <i>L·E</i> 24 <i>M·NE</i> 31 20°. <i>N</i> : 100 μ , <i>E</i> : 80 μ . $\Delta = 54^\circ$. <i>M</i> = 7. Aleutian Islands.
11	<i>e·Z'</i> 10 13 21

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March	
11	<i>iP·Z'ZNE</i> 15 ^h 05 ^m 08 ^s <i>e·Z'</i> 05 24 <i>ePcP·Z'</i> 06 09 <i>ePPP·NE</i> 08 43 <i>eS·NE</i> 13 07 <i>i·E</i> 13 20 <i>eScS·NE</i> 14 57 <i>L·NE</i> 22 <i>M·NE</i> 30 20°. <i>N</i> : 65 μ , <i>E</i> : 45 μ . $\Delta = 57^\circ$. <i>M</i> = 7. Aleutian Islands.
11	<i>eP·Z'</i> 15 10 03 <i>eP·Z'Z</i> 15 45 45 <i>eP·Z'</i> 15 50 37 Possibly 3 shocks from Aleutian Islands.
12	<i>eP·Z'</i> 7 38 30 <i>eS·NE</i> 46 22 <i>iScS·E</i> 48 26 <i>eSS·NE</i> 50 27 <i>L·NE</i> 55 $\Delta = 56^\circ$. Aleutian Islands.
12	<i>eP·Z'</i> 7 49 09 $\Delta = 57^\circ$. Aleutian Islands.
12	<i>eP·Z'</i> 11 54 45 <i>i·Z'N</i> 54 49 <i>iPPP·N</i> 58 27 <i>iS·NE</i> 12 02 42 <i>iScS·N</i> 04 26 <i>eSS·N</i> 06 17 <i>M·NE</i> 20 20°. <i>N</i> : 125 μ , <i>E</i> : 110 μ . $\Delta = 58^\circ$. <i>M</i> = 7 ¹ / ₄ . Aleutian Islands.
12	<i>i·Z'</i> 11 59 41
12	<i>e·Z'</i> 12 24 32
12	<i>eP·Z'</i> 12 55 46 <i>ePP·Z'</i> 57 28 $\Delta = 54^\circ$. Aleutian Islands.
12	<i>eP·Z'</i> 20 09 53 $\Delta = 53^\circ$. Aleutian Islands.
13	<i>L·NE</i> 0 20
13	<i>iP·Z'</i> 2 58 02 <i>eS·N</i> 3 06 02 <i>L·NE</i> 16 $\Delta = 56^\circ$. Aleutian Islands.
13	<i>ePKP·Z'</i> 9 30 36 <i>epPKP·Z'</i> 31 49 $\Delta = 147^\circ$. <i>h</i> = 250 km. New Zealand.

March	
13	<i>L·NE</i> 9 ^h 39 ^m
13	<i>eP·Z'</i> 20 08 45 <i>eS·N</i> 16.6 <i>L·NE</i> 27 $\Delta = 54^\circ$. Aleutian Islands.
14	<i>L·NE</i> 0 59
14	<i>eP·Z'</i> 2 01 54 <i>L·NE</i> 19 $\Delta = 55^\circ$. Aleutian Islands.
14	<i>eP·Z'</i> 2 56 21 <i>i·Z'</i> 56 32 <i>L·NE</i> 3 13 $\Delta = 53^\circ$. Aleutian Islands.
14	<i>L·NE</i> 11 05
14	<i>eP·Z'ZNE</i> 14 57 34 <i>iPcP·Z</i> 58 37 <i>iS·NE</i> 15 05 37 <i>iScS·E</i> 07 27 <i>L·NE</i> 15 <i>M·NE</i> 23 20°. <i>N</i> : 100 μ , <i>E</i> : 90 μ . $\Delta = 57^\circ$. <i>M</i> = 7 ¹ / ₄ . Aleutian Islands.
14	<i>eP·Z'</i> 15 14 55 <i>ePcP·Z'</i> 15 50 <i>e·Z'</i> 16 00 $\Delta = 57^\circ$. Aleutian Islands.
14	<i>e·Z'</i> 15 27 24
15	<i>iP·Z'Z</i> 3 01 39 <i>ePP·N</i> 03 42 <i>eS·E</i> 09 17 <i>e·Z'E</i> 09 29 <i>iScS·E</i> 11 34 <i>eSS·E</i> 13.1 <i>L·NE</i> 19.6 $\Delta = 54^\circ$. Aleutian Islands.
15	<i>eP·Z'</i> 4 22 45 <i>ePcP·Z'</i> 23 41 $\Delta = 57^\circ$. Aleutian Islands.
15	<i>eP·Z'</i> 12 07 18 $\Delta = 57^\circ$. Aleutian Islands.
16	<i>iP·Z'</i> 0 52 59 $\Delta = 53^\circ$. Aleutian Islands.

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March	
16 <i>eP·Z'</i>	2 ^h 44 ^m 01 ^s
<i>i·Z'</i>	44 04
<i>ePPP·NE</i>	47 27
<i>iS·E</i>	51 57
<i>iScS·NE</i>	53 51
<i>L·NE</i>	3 02.5
<i>M·NE</i>	11
$\Delta = 57^\circ$. $M = 7$. Aleutian Islands. 20 ^s . $N: 90 \mu$, $E: 50 \mu$.	
16 <i>e·Z'</i>	3 14 03
17 <i>eP·Z'</i>	0 07 24
$\Delta = 82^\circ$. Ryukyu Islands.	
17 <i>L·NE</i>	8 22
17 <i>L·NE</i>	15 43
17 <i>eP·Z'</i>	16 26 48
<i>i·Z'</i>	26 54
<i>L·NE</i>	45
$\Delta = 55^\circ$. Aleutian Islands.	
17 <i>iP·Z'ZNE</i>	22 54 09
<i>ePcP·Z'</i>	55 15
<i>iS·NE</i>	23 01 37
<i>L·NE</i>	09
$\Delta = 53^\circ$. Aleutian Islands.	
18 <i>eP·Z'</i>	2 34 16
$\Delta = 55^\circ$. Aleutian Islands.	
18 <i>eP·Z'</i>	2 35 04
<i>L·NE</i>	55
$\Delta = 55^\circ$. Aleutian Islands.	
18 <i>L·NE</i>	5 37
18 <i>ePP·N</i>	21 34 07
<i>eSKKS·N</i>	41 02
<i>ePS·N</i>	43.7
<i>eSPP·Z</i>	45 12
<i>L·NE</i>	22 09
$\Delta = 115^\circ$. New Britain.	
19 <i>L·NE</i>	4 11
19 <i>eP·Z'</i>	8 23 42
<i>L·NE</i>	43
$\Delta = 54^\circ$. Aleutian Islands.	
19 <i>L·NE</i>	11 56

March	
19 <i>iP·Z'</i>	13 ^h 00 ^m 38 ^s
<i>i·Z'ZN</i>	00 48
<i>iS·NE</i>	08 40
<i>iSS·NE</i>	12 46
<i>L·NE</i>	18
$\Delta = 57^\circ$. Aleutian Islands.	
19 <i>L·NE</i>	16 16
19 <i>eP·Z'</i>	17 14 04
<i>L·NE</i>	35
$\Delta = 55^\circ$. Aleutian Islands.	
20 <i>iP·Z'</i>	0 31 57
<i>L·NE</i>	49
$\Delta = 55^\circ$. Aleutian Islands.	
20 <i>L·NE</i>	3 58
20 <i>L·NE</i>	11 34
20 <i>eP·Z'</i>	20 37 38
$\Delta = 56^\circ$. Aleutian Islands.	
21 <i>L·NE</i>	9 20
21 <i>iP·Z'</i>	12 41 12
$\Delta = 56^\circ$. Aleutian Islands.	
21 <i>L·NE</i>	18 12
22 <i>eP·Z'</i>	14 30 29
<i>i·Z'NE</i>	30 31
<i>iS·NE</i>	38 01
<i>iScS·NE</i>	40 16
<i>L·NE</i>	46
<i>M·NE</i>	56
20 ^s . $N: 80 \mu$, $E: 80 \mu$. $\Delta = 54^\circ$. $M = 7$. Aleutian Islands.	
22 <i>iP·Z'</i>	14 42 34
$\Delta = 54^\circ$. Aleutian Islands.	
22 <i>eP·Z'</i>	17 19 28
<i>L·NE</i>	35
$\Delta = 55^\circ$. Aleutian Islands.	
22 <i>L·NE</i>	20 14
23 <i>ePP·Z'</i>	5 31 47
<i>eSKKS·N</i>	38 31
<i>e·E</i>	39 21
<i>i·E</i>	39 36
<i>iPS·N</i>	41 11
<i>i·E</i>	47 31
<i>i·E</i>	51 21
<i>L·NE</i>	6 06
$\Delta = 113^\circ$. $h = 100$ km. Banda Sea.	

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March	
24 <i>L·NE</i>	2 ^h 13. ^m 9
24 <i>L·NE</i>	8 47
24 <i>iP·Z'</i>	11 15 47
<i>L·NE</i>	36
$\Delta = 56^\circ$. Aleutian Islands.	
24 <i>eP·Z'</i>	11 46 28
<i>L·NE</i>	12 03
$\Delta = 56^\circ$. Aleutian Islands.	
25 <i>eP·Z'</i>	14 22 57
$\Delta = 53^\circ$. Aleutian Islands.	
26 <i>eP·Z'</i>	3 14 38
<i>L·NE</i>	37
$\Delta = 56^\circ$. Aleutian Islands.	
28 <i>L·NE</i>	20 36
28 <i>eP·Z'</i>	22 33 28
$\Delta = 39^\circ$. Greece.	
29 <i>iP·Z'ZN</i>	5 19 55
<i>ePP·NE</i>	22 11
<i>eS·N</i>	27 31
<i>i·E</i>	27 48
<i>iScS·N</i>	29 43
<i>L·NE</i>	35
$\Delta = 54^\circ$. Aleutian Islands.	
29 <i>eP·Z'</i>	22 59 24
<i>L·NE</i>	23 17
$\Delta = 55^\circ$. Aleutian Islands.	
30 <i>eP·Z'</i>	9 26 44
$\Delta = 55^\circ$. Aleutian Islands.	
31 <i>L·NE</i>	10 34
April	
1 <i>L·NE</i>	12 05
2 <i>iP·Z'</i>	0 49 43
<i>L·NE</i>	1 07
$\Delta = 56^\circ$. Aleutian Islands.	
2 <i>iP·Z'</i>	8 44 22
$\Delta = 78^\circ$. $h = 550$ km. Japan.	

April	
2 <i>eP·Z'</i>	20 ^h 26 ^m 45 ^s
<i>eS·N</i>	34 40
<i>L·NE</i>	45
$\Delta = 57^\circ$. Aleutian Islands.	
2 <i>eP·Z'</i>	21 37 45
<i>eS·N</i>	45 40
<i>L·N</i>	59
$\Delta = 57^\circ$. Aleutian Islands.	
3 <i>e·Z'</i>	0 21 33
5 <i>L·NE</i>	3 18
5 <i>ePP·Z'</i>	7 52 52
$\Delta = 135^\circ$. Kermadec Islands.	
7 <i>L·NE</i>	8 41
7 <i>eSKKS·NE</i>	10 40 20
<i>ePS·N</i>	42 40
<i>eSS·NE</i>	48.3
$\Delta = 109^\circ$. New Guinea.	
9 <i>iP·Z'ZNE</i>	0 35 55
<i>ipP·Z'</i>	37 37
<i>iS·NE</i>	45 16
<i>i·N</i>	45 24
<i>i·E</i>	48 06
<i>eSS·E</i>	50 26
$\Delta = 78^\circ$. $h = 450$ km. Japan.	
9 <i>L·NE</i>	11 30
9 <i>L·NE</i>	20 55
10 <i>iP·Z'</i>	3 34 49
<i>L·NE</i>	52
$\Delta = 55^\circ$. Aleutian Islands.	
10 <i>eP·Z'Z</i>	5 23 26
<i>iS·NE</i>	32 46
<i>eSS·E</i>	37 12
<i>eSSS·NE</i>	40.6
<i>L·NE</i>	48
$\Delta = 71^\circ$. Mexico.	
10 <i>L·NE</i>	9 40
10 $\sqrt{iP·Z'ZNE}$	11 38 50
<i>iPP·ZNE</i>	40 41
<i>iS·NE</i>	46 01
<i>SS·NE</i>	49 41
<i>L·NE</i>	54
<i>M·NE</i>	12 01
20 ^s . $N: 90 \mu$, $E: 125 \mu$. $\Delta = 50^\circ$. $M = 7$. Kodiak Island.	

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April	April
11 L·NE 2 ^h 19 ^m	17 L·NE 18 ^h 44 ^m
11 L·NE 18 10	19 iP·Z'Z 15 54 36
13 iS·N 4 00 24	iS·NE 16 02 27
L·NE 08	L·NE 13
$\Delta = 50^\circ$. Vancouver Island.	$\Delta = 57^\circ$. Aleutian Islands.
13 L·NE 5 45	19 iP·Z'ZNE 22 29 03
14 iP·Z'Z 7 22 48	ePP·N 31 07
iS·NE 31 47	iS·ZNE 36 42
iPS·NE 32 08	L·NE 46
iScS·E 32 50	$\Delta = 55^\circ$. Aleutian Islands.
eSS·NE 36 49	20 ePKP·Z' 7 07 51
L·NE 47	L·NE 8 05
$\Delta = 68^\circ$. Southern Tibet.	$\Delta = 146^\circ$. South Pacific.
14 iPKP·Z' 19 36 58	20 L·NE 13 29
iPP·Z'Z 38 23	21 eP·Z' 21 23 47
iSKS·NE 43 57	i·Z'ZNE 23 57
iSKKS·NE 45 30	iS·NE 33 01
L·NE 20 15	ePS·N 33 17
M·NE 18 30 ^s . N: 60 μ , E: 60 μ .	iSKS·NE 33 46
M·NE 25 20 ^s . N: 60 μ , E: 60 μ .	i·N 34 55
$\Delta = 122^\circ$. M = 7 $\frac{1}{2}$. Samoa Islands.	iSS·NE 37 43
14 eP·Z' 21 08 57	L·NE 48
$\Delta = 59^\circ$. Aleutian Islands.	$\Delta = 71^\circ$. Venezuela.
15 L·NE 11 09	24 iP·Z'ZNE 19 18 11
15 iP·Z' 21 42 42	i·Z'Z 20 01
i·Z' 42 46	eS·NE 24 35
L·NE 22 06	eSS·N 27 49
$\Delta = 56^\circ$. Aleutian Islands.	iSSS·NE 28 47
16 iP·Z'Z 4 17 21	L·NE 32
ipP·Z'Z 19 28	$\Delta = 43^\circ$. Rhodes.
iPP·Z 21 48	25 iP·Z'ZNE 2 33 39
i·Z'ZE 21 55	i·Z 33 57
epPP·ZN 23 52	iPPP·ZE 35 35
iSKKS·N 27 56	iS·N 40 02
eS·E 28 22	iSS·N 43 12
i·N 28 28	iSSS·N 43 54 14 ^s , 50 μ .
iSP·ZNE 30 02	L·NE 47
iPS·ZE 31 12	$\Delta = 43^\circ$. Rhodes.
isSP·E 33 51	25 L·NE 5 10
eSS·E 36 19	25 iP·Z' 7 25 00
$\Delta = 107^\circ$. h = 600 km. Java Sea.	L·NE 40
17 L·NE 9 59	$\Delta = 56^\circ$. Aleutian Islands.
17 L·NE 13 55	25 L·NE 12 02
17 L·NE 15 39	25 L·NE 14 32

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April	May
25 L·NE 18 ^h 16 ^m	12 ePP·Z' 11 ^h 48 ^m 17 ^s
25 L·NE 22 29	eSKS·E 54 47
26 eP·Z' 6 41 48	L·NE 12 26
L·NE 51	$\Delta = 110^\circ$. Java.
$\Delta = 43^\circ$. Rhodes.	16 eP·Z' 15 08 33
26 L·NE 10 46	$\Delta = 103^\circ$. h = 100 km. Argentina.
28 eSKKS·NE 1 48 54	17 eP·Z 20 54 32 very weak.
e·N 51 36	L·N 21 15
L·NE 2 15	$\Delta = 73^\circ$. West of Mexico.
$\Delta = 100^\circ$. Philippine Islands.	18 iP·Z' 5 33 50
28 iP·Z' 14 58 29	eS·N 41 38
eS·NE 15 06 16	L·N 55
L·NE 18	$\Delta = 56^\circ$. Aleutian Islands.
$\Delta = 55^\circ$. Aleutian Islands.	19 iP·Z' 20 57 26
29 L·N 4 56	L·NE 21 31
29 L·N 22 01	$\Delta = 82^\circ$. Ryukyu Islands.
May	20 eP·Z' 0 51 06
1 L·NE 23 56	e(S)·Z' 52 18
2 iP·Z'ZNE 3 58 55	L·NE 52 38
eS·ZN 4 01 22	$\Delta = 6^\circ$. Iceland.
L·ZNE 02.6	20 eP·Z' 2 00 48
$\Delta = 14^\circ$. Baffin Bay.	$\Delta = 58^\circ$. Aleutian Islands.
2 ePKP·Z' 10 53 53	21 iP·Z' 1 24 40
L·NE 11 35	ipP·Z' 25 12
$\Delta = 144^\circ$. South Pacific.	ePP·N 28 14
2 iP·Z' 11 38 48	iSKS·NE 34 56
$\Delta = 55^\circ$. Aleutian Islands.	eS·NE 35 11
2 iP·Z' 11 48 28	eSS·NE 41 00
$\Delta = 55^\circ$. Aleutian Islands.	L·NE 53
3 L·NE 7 43	$\Delta = 87^\circ$. h = 100 km. Mariana Islands.
7 eP·Z' 5 46 26	21 iP·Z' 11 47 37
L·NE 6 07	$\Delta = 73^\circ$. Japan.
$\Delta = 57^\circ$. Aleutian Islands.	21 iP·Z' 13 31 46
8 e·Z' 8 22 22	L·NE 43
8 e·Z' 9 28 54	$\Delta = 39^\circ$. Greece.
12 iPKP·Z' 5 06 52	22 iP·Z' 13 39 43
iPKS·NE 10 29	ePP·NE 41 53
L·NE 50	ePPP·NE 43 21
$\Delta = 131^\circ$. Sandwich Group.	iS·NE 47 54
	eSS·N 51 49
	L·NE 57
	$\Delta = 59^\circ$. Aleutian Islands.
	22 eP·Z' 18 35 12
	e(S)·NE 37 03
	$\Delta = 10^\circ$. SW of Svalbard.

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May

24	<i>iP·Z'</i>	2 ^h 49 ^m 29 ^s	
	<i>iS·N</i>	59 04	
	<i>eSKS·N</i>	59 34	
	<i>eSS·NE</i>	3 03 50	
	<i>L·NE</i>	13	
	$\Delta = 76^\circ$. Colombia.		
24	<i>eP·Z'</i>	3 46 02	
	<i>eS·NE</i>	53 39	
	<i>L·NE</i>	4 04	
	$\Delta = 55^\circ$. Aleutian Islands.		
26	<i>iP·Z'</i>	4 26 33	
	$\Delta = 56^\circ$. Aleutian Islands.		
26	<i>iP·Z'</i>	6 41 10	
	<i>iPP·NE</i>	42 51	
	<i>iS·NE</i>	47 19	
	<i>iSS·NE</i>	49 43	
	<i>iSSS·NE</i>	50 13	N: 20 ^s , 190 μ .
	$\Delta = 40^\circ$. Turkey.		
26	<i>eP·Z'</i>	9 02 26	
	<i>L·NE</i>	17	
	Repetition.		
26	<i>iP·Z'</i>	9 44 16	
	<i>ePP·Z'</i>	45 46	
	Repetition.		
27	<i>eP·Z'</i>	11 09 04	
	<i>ePP·Z'</i>	10 34	
	<i>eS·NE</i>	15 07	
	<i>eSS·E</i>	17 51	
	<i>iSSS·NE</i>	18 17	
	<i>L·NE</i>	23	
	Repetition.		
28	<i>L·NE</i>	1 50	
28	<i>eP·Z'</i>	6 03 13	
	<i>ePcP·Z'</i>	03 33	
	<i>eS·NE</i>	12 41	
	<i>eSKS·NE</i>	13 17	
	$\Delta = 74^\circ$. Pakistan-Burma border.		
30	<i>ePS·NE</i>	0 50 15	
	<i>L·NE</i>	1 29	
	$\Delta = 127^\circ$. Tonga Islands.		
30	<i>L·NE</i>	3 38	
31	<i>eP·Z'</i>	22 27 06	
	$\Delta = 57^\circ$. Aleutian Islands.		
31	<i>L·NE</i>	22 40	

June

4	<i>iPP·Z'</i>	17 ^h 24 ^m 55 ^s	
	$\Delta = 125^\circ$. 550 km. Fiji Islands.		
5	<i>iP·Z'NE</i>	7 20 42	
	<i>iS·NE</i>	24 17	
	<i>L·NE</i>	25.7	
	$\Delta = 20^\circ$. North Atlantic Ocean.		
6	<i>L·NE</i>	4 00	
6	<i>iP·Z'</i>	5 48 07	
	<i>L·NE</i>	6 08	
	$\Delta = 56^\circ$. Aleutian Islands.		
6	<i>eP·Z'</i>	20 03 52	
	<i>ePP·N</i>	07 58	
	<i>L·NE</i>	43	
	$\Delta = 103^\circ$. Molucca Passage.		
10	<i>eP·Z'</i>	1 14 47	
	<i>ePKP·Z'</i>	18 36	
	<i>iPP·Z'N</i>	19 34	
	<i>iSKS·N</i>	25 14	
	$\Delta = 113^\circ$. Indonesia.		
10	<i>eP·Z'</i>	3 26 28	
	$\Delta = 95^\circ$. $h = 150$ km. Mariana Islands.		
11	<i>ePKP·Z'</i>	15 09 04	
	<i>ePP·Z'NE</i>	11 50	
	<i>iPKS·NE</i>	12 41	
	<i>ePS·NE</i>	22 15	
	<i>L·NE</i>	54	
	$\Delta = 138^\circ$. $h = 100$ km. Kermadec Islands.		
11	<i>iP·Z'</i>	19 02 18	
	<i>ePP·Z'NE</i>	05 45	
	<i>iSKS·NE</i>	12 42	
	<i>eS·E</i>	13 08	
	<i>ePS·NE</i>	13 50	
	<i>ePPS·E</i>	14 18	
	<i>iSS·NE</i>	18 48	
	<i>eSSS·NE</i>	22 20	
	<i>L·NE</i>	33	
	$\Delta = 88^\circ$. Philippine Islands.		
12	<i>eP·Z'N</i>	0 03 45	
	<i>ePcP·Z'</i>	04 43	
	<i>eS·NE</i>	11 55	
	<i>L·NE</i>	23	
	$\Delta = 57^\circ$. Aleutian Islands.		
12	<i>iP·Z'</i>	8 39 36	
	<i>eS·NE</i>	48 35	
	<i>L·NE</i>	9 03	
	$\Delta = 68^\circ$. Japan.		

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June

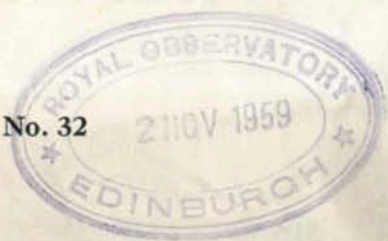
13	<i>iP·Z'NE</i>	10 ^h 50 ^m 26 ^s	
	<i>iS·NE</i>	58 18	
	<i>eSS·NE</i>	02 21	N: 20 ^s , 35 μ .
	<i>L·NE</i>	11.0	N: 20 ^s , 55 μ .
	<i>M·E</i>	17	20 ^s , 80 μ .
	$\Delta = 57^\circ$. Aleutian Islands.		
14	<i>eP·Z'</i>	6 34 03	
	<i>L·NE</i>	52	
	$\Delta = 57^\circ$. Aleutian Islands.		
15	<i>L·NE</i>	1 41	
15	<i>iP·Z'</i>	18 27 58	
	<i>eS·E</i>	35 40	
	<i>iScS·E</i>	37 45	
	<i>L·NE</i>	50	
	$\Delta = 56^\circ$. Aleutian Islands.		
18	<i>iP·Z'Z</i>	2 24 53	
	<i>i·Z'</i>	24 59	
	<i>e(PPP)·N</i>	30 53	
	<i>eSKS·E</i>	35 20	
	<i>L·NE</i>	55	
	$\Delta = 85^\circ$. Burma		
18	<i>eP·Z'</i>	11 31 43	
	<i>eSKS·E</i>	42 15	
	<i>iScS·N</i>	42 34	
	$\Delta = 88^\circ$. Philippine Islands.		
18	<i>iP·Z'Z</i>	15 01 01	
	<i>eSKS·NE</i>	11 21	
	<i>L·NE</i>	32	
	$\Delta = 85^\circ$. Burma.		
18	<i>L·NE</i>	19 01	
19	<i>ePP·Z'ZNE</i>	1 51 31	
	<i>L·NE</i>	2 34	
	$\Delta = 131^\circ$. Tonga Islands.		
19	<i>ePKP·Z'</i>	8 20 36	
	<i>ePP·ZN</i>	22 30	
	<i>eSS·NE</i>	39 16	
	<i>NE</i>	52.9	per. abt. 50 sec.
	<i>L·NE</i>	9 02	
	$\Delta = 124^\circ$. Fiji Islands.		
19	<i>e·Z'</i>	20 51 28	
	Near?		
20	<i>iP·Z'Z</i>	1 19 26	
	<i>eS·NE</i>	30 10	
	<i>ePS·N</i>	31 02	
	$\Delta = 89^\circ$. Marianne Islands.		

June

21	<i>iP·Z'</i>	18 ^h 48 ^m 26 ^s	
	<i>L·NE</i>	19 08	
	$\Delta = 61^\circ$. Kurile Islands.		
22	<i>eP·Z'</i>	6 30 13	
	<i>i·Z'</i>	30 14	
	<i>iS·NE</i>	39 17	
	<i>L·E</i>	52.5	
	<i>ePKPPKP·Z'</i>	58 20	
	$\Delta = 69^\circ$. Mexico.		
22	<i>eP·Z'</i>	19 32 11	
	$\Delta = 56^\circ$. Mid Atlantic Ocean.		
23	<i>eP·Z'</i>	0 04 59	
	<i>e(SKKS)·E</i>	16 45	
	<i>ePS·N</i>	19 00	
	<i>e·E</i>	35.7	
	<i>L·N</i>	44	
	$\Delta = 110^\circ$. New Guinea.		
23	<i>eP·Z'</i>	3 35 10	
	<i>ePP·NE</i>	36 55	
	<i>eS·NE</i>	41 55	
	<i>L·NE</i>	49.5	
	$\Delta = 44^\circ$. Alaska.		
24	<i>iP·Z'</i>	10 00 53	
	<i>eS·NE</i>	09 56	
	<i>L·NE</i>	24	
	$\Delta = 69^\circ$. Mexico.		
25	<i>L·E</i>	10 57	
27	<i>iP·Z'ZNE</i>	00 18 26	
	<i>iPP·ZNE</i>	20 28	
	<i>iS·NE</i>	25 31	N: 14 ^s , 60 μ .
	<i>iSS·NE</i>	29 15	
	<i>L·NE</i>	34	
	<i>M·NE</i>	40	20 ^s . N: 175 μ , E: 175 μ .
	$\Delta = 50^\circ$. $M = 7\frac{1}{4}$. Lake Baikal.		
28	<i>e·Z'</i>	18 26 06	
	Near?		
29	<i>iP·Z'</i>	7 57 54	
	<i>L·E</i>	8 14	
	$\Delta = 55^\circ$. Aleutian Islands.		
29	<i>eP·Z'Z</i>	22 42 52	
	<i>eS·NE</i>	50 06	
	<i>L·NE</i>	23 00	
	$\Delta = 51^\circ$. Lake Baikal.		

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HENRY JENSEN



GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

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

Lithologic foundation : gneiss

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

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often due to BCIS or USCGS. The periods given are periods of full oscillations. The amplitudes are single amplitudes of the ground in microns. + 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.

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. All readings are due to the Galitzin instruments.

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July		9	
1 <i>iP·Z'Z</i>	19 ^h 42 ^m 02 ^s	<i>eP·Z'</i>	21 ^h 05 ^m 37 ^s
<i>iPcP·Z'Z</i>	42 21	<i>eS·ZNE</i>	06 02
<i>iS·NE</i>	51 36	<i>L·ZNE</i>	06 18
<i>iScS·NE</i>	52 16	$\Delta = 2\frac{1}{2}^\circ$.	North of Iceland.
<i>i·E</i>	52 50	9 <i>iP·Z'ZNE</i>	21 21 03
<i>eSS·N</i>	56 23	<i>eS·Z'</i>	21 22
<i>L·NE</i>	20 04	<i>L·NE</i>	21 30
$\Delta = 75^\circ$.	India-Burma border.	$\Delta = 2\frac{1}{2}^\circ$.	North of Iceland.
2 <i>iP·Z'ZNE</i>	0 51 30	<i>Z</i> : 9 ^s , 10 μ .	
<i>ePcP·Z</i>	52 45	10 <i>L·NE</i>	5 12
<i>iPP·Z'ZE</i>	53 29	10 <i>eP·Z'ZNE</i>	6 06 27
<i>iS·NE</i>	58 54	<i>e·Z'</i>	07 02
<i>iSS·NE</i>	1 02 26	<i>e·N</i>	07 09
<i>L·NE</i>	09	$\Delta = 2\frac{1}{2}^\circ$.	North of Iceland.
$\Delta = 52^\circ$.	Iran.	10 <i>iP·Z'ZNE</i>	9 15 42
3 <i>iP·Z'</i>	12 34 29	<i>eS·NE</i>	25 07
<i>eS·N</i>	42 42	<i>L·NE</i>	40
<i>L·NE</i>	52	<i>M·NE</i>	45
$\Delta = 58^\circ$.	Aleutian Islands.	20 ^s . <i>N</i> : 12 μ , <i>E</i> : 12 μ .	
4 <i>L·NE</i>	22 58	$\Delta = 73^\circ$.	Panama.
5 <i>L·NE</i>	1 30	13 <i>iP·Z'</i>	1 09 07
5 <i>ePKS·N</i>	12 56 54	<i>eS·E</i>	16 51
<i>L·NE</i>	13 46	<i>eScS·E</i>	18 57
$\Delta = 135^\circ$.	Kermadec Islands.	<i>L·E</i>	24
5 <i>iP·Z'</i>	15 44 19	$\Delta = 56^\circ$.	Aleutian Islands.
$\Delta = 80^\circ$.	Belgian Congo.	13 <i>L·NE</i>	10 37
7 <i>iP·Z'</i>	6 07 04	14 <i>iP·Z'</i>	2 37 26
<i>eS·E</i>	13.6	<i>eS·N</i>	46 02
<i>L·NE</i>	22	<i>L·NE</i>	56
$\Delta = 45^\circ$.	Turkey.	$\Delta = 64^\circ$.	Kuriles Islands.
7 <i>iPKP·Z'</i>	16 30 02	14 <i>iPKP·Z'</i>	6 42 47
<i>e·NE</i>	40.5	<i>i·Z'NE</i>	42 56
<i>L·NE</i>	17 06	<i>iPP·Z'NE</i>	45 26
$\Delta = 116^\circ$.	Solomon Islands.	<i>iSKP·Z'</i>	46 08
8 <i>eP·Z'</i>	15 41 30	<i>ipPP·NE</i>	46 28
<i>e·E</i>	45 52	<i>e(sPP)·Z'</i>	46 54
<i>eS·NE</i>	51 03	<i>i·NE</i>	47 40
<i>eSS·E</i>	55.4	<i>eSS·NE</i>	7 02 52
<i>L·NE</i>	16 04	<i>esSS·E</i>	05 12
$\Delta = 70^\circ$.	<i>h</i> = 150 km. Guatemala.	$\Delta = 134^\circ$.	<i>h</i> = 200 km. Kermadec Islands.
9 <i>L·NE</i>	10 50	14 <i>iPKP·Z'</i>	8 30 11
9 <i>eP·Z'ZNE</i>	20 35 43	<i>ePP·NE</i>	32 52
<i>eS·Z'</i>	36 11	<i>ePKS·NE</i>	33 52
<i>L·ZNE</i>	36 32	<i>e·E</i>	41.2
$\Delta = 2\frac{1}{2}^\circ$.	North of Iceland.	<i>e(SKSP)·N</i>	43.1
		<i>eSS·N</i>	50.9
		$\Delta = 137^\circ$.	Kermadec Islands.
		14 <i>ePKP·Z'</i>	10 01.5
		$\Delta = 127^\circ$.	Tonga Islands.

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July		July	
17 <i>ePP·Z'NE</i>	11 ^h 30 ^m 29 ^s	24 <i>e·NE</i>	11 ^h 11 ^m 50 ^s
<i>ePS·NE</i>	40.1	<i>e·NE</i>	13 22
<i>L·NE</i>	12.1	<i>e·E</i>	14 23
$\Delta = 120^\circ$.	Santa Cruz Islands.	24 <i>ePP·NE</i>	11 23.8
18 <i>L·NE</i>	1 45	<i>e·N</i>	33.4
19 <i>eP·Z'</i>	13 14 23	<i>eSS·E</i>	40 46
<i>e·Z'</i>	14 55	<i>L·N</i>	12 03
<i>eS·NE</i>	24 41	$\Delta = 129^\circ$.	New Hebrides Islands.
$\Delta = 81^\circ$.	Formosa.	24 <i>L·NE</i>	17 57
20 <i>L·NE</i>	10 49	25 <i>eP·NE</i>	7 52 16
20 <i>iP·Z'</i>	11 22 52	<i>eS·NE</i>	8 00 16
$\Delta = 59^\circ$.	Kamchatka.	<i>L·E</i>	10
20 <i>eS·NE</i>	14 27 52	<i>L·N</i>	14
<i>L·NE</i>	43	$\Delta = 58^\circ$.	Aleutian Islands.
$\Delta = 66^\circ$.	Japan.	26 <i>e·N</i>	2 48.7
21 <i>(e)P·Z'</i>	6 15 (16) in the time-break.	<i>e·N</i>	54.0
<i>eS·N</i>	24.5	26 <i>e·NE</i>	4 42.3
<i>eSS·E</i>	29.3	27 <i>L·NE</i>	15 57
<i>L·NE</i>	38	27 <i>L·NE</i>	21 29
$\Delta = 70^\circ$.	Guatemala.	28 <i>iP·Z'ZNE</i>	8 51 16
22 <i>ePP·N</i>	6 39.4	<i>iPcP·Z'</i>	51 34
<i>e·N</i>	40 08	<i>iS·NE</i>	9 00 46
<i>eSKKS·N</i>	46 16	<i>eSS·E</i>	04.8
$\Delta = 141^\circ$.	Kermadec Islands.	<i>L·NE</i>	13
22 <i>eS·E</i>	14 14 46	<i>M·NE</i>	20
<i>eScS·E</i>	17.1	20 ^s . <i>N</i> : 190 μ , <i>E</i> : 225 μ , <i>M</i> : 7.7.	
<i>L·NE</i>	24	$\Delta = 70^\circ$.	Mexico.
$\Delta = 54^\circ$.	Aleutian Islands.	28 <i>L·NE</i>	14 07
23 <i>iP·ZNE</i>	0 55 00	29 <i>L·NE</i>	0 51
<i>e·NE</i>	58 47	29 <i>e·NE</i>	3 09.6
<i>eS·NE</i>	1 02.8	<i>e·NE</i>	11 12
<i>eScS·E</i>	04 51	29 <i>eP·Z'ZE</i>	17 29 04
<i>eSS·N</i>	07.0	<i>ePP·Z'ZN</i>	33 02
<i>L·NE</i>	14	<i>iSKS·NE</i>	39 44
$\Delta = 56^\circ$.	Aleutian Islands.	<i>e·E</i>	40 34
24 <i>ePP·N</i>	2 16.2	<i>iPS·NE</i>	42 16
<i>ePPP·E</i>	18 54	<i>L·NE</i>	18 02
<i>eSKS·NE</i>	22 16	$\Delta = 100^\circ$.	Chile.
<i>ePS·NE</i>	25 16	August	
<i>eSS·E</i>	31.2	1 <i>iP·Z'</i>	16 28 26
<i>L·NE</i>	48	<i>L·E</i>	45
$\Delta = 106^\circ$.	Chile-Argentina border.	<i>L·ZN</i>	51
		$\Delta = 56^\circ$.	Aleutian Islands.

Scoresbysund 1957

August	
1 <i>L·NE</i>	22 ^h 55 ^m
3 <i>L·E</i>	9 29
4 <i>ePP·N</i>	0 58 46
<i>eSKS·N</i>	1 04.6
<i>eSS·E</i>	14.3
<i>eSSS·E</i>	18.2
<i>L·NE</i>	34
$\Delta = 112^\circ$.	New Guinea.
4 <i>iP·ZNE</i>	6 17 51
<i>eS·NE</i>	27 06
<i>eSSS·E</i>	34.6
<i>L·NE</i>	45
$\Delta = 71^\circ$.	Mexico.
4 <i>eP·ZE</i>	11 39.8
<i>eS·E</i>	48 56
<i>L·NE</i>	12 07
Repetition.	
4 <i>iP·Z</i>	14 27 32
<i>eS·NE</i>	36 48
<i>eSS·E</i>	41 16
<i>eSSS·E</i>	44.7
<i>L·NE</i>	50
Repetition.	
4 <i>ePKP·Z'Z</i>	21 27 56
<i>ePP·ZNE</i>	29 36
<i>e·N</i>	41.8
<i>eSS·NE</i>	46.7
<i>L·NE</i>	22 05
$\Delta = 122^\circ$.	South of Africa.
5 <i>ePKS·NE</i>	4 52 30
<i>L·NE</i>	5 44
$\Delta = 131^\circ$.	Tonga Island.
5 <i>eP·Z</i>	17 46 07
<i>eS·NE</i>	55 26
<i>L·NE</i>	18.2
$\Delta = 70^\circ$.	Mexico.
7 <i>L·NE</i>	4 52
7 <i>L·E</i>	6 22
<i>L·N</i>	6 25
7 <i>ePKP·Z'</i>	19 58 52
$\Delta = 127^\circ$.	$h = 550$ km. Fiji Islands.
8 <i>L·NE</i>	5 17

August	
8 <i>eP·Z'</i>	22 ^h 45 ^m 01 ^s
<i>eS·NE</i>	55 06
<i>eSS·N</i>	23 00.7
$\Delta = 78^\circ$.	Ascension Island.
9 <i>ePP·Z'ZN</i>	2 48.4
<i>eSKS·N</i>	54 38
<i>eSKKS·NE</i>	55 34
<i>e·E</i>	56.3
<i>ePS·N</i>	57 56
<i>L·NE</i>	3 22
$\Delta = 110^\circ$.	New Guinea.
10 <i>iP·Z'Z</i>	0 12 03
$\Delta = 65^\circ$.	Kurile Islands.
10 <i>L·NE</i>	5 02
11 <i>e·Z'NE</i>	15 35.7
Near shock?	
11 <i>e·NE</i>	16 02.0
Near shock?	
11 <i>ePKP·Z'Z</i>	21 57 11
<i>eSS·E</i>	22 16 16
<i>L·NE</i>	40
$\Delta = 126^\circ$.	New Hebrides Islands.
12 <i>e·Z'</i>	3 48 30
<i>i·Z'</i>	49 13
12 <i>e(L)·E</i>	8 10
12 <i>L·NE</i>	8 28
13 <i>iP·Z'</i>	12 08 07
<i>eS·NE</i>	14 32
<i>L·NE</i>	23
$\Delta = 43^\circ$.	Alaska.
15 <i>epPP·ZN</i>	21 05 51
Preceding movements illegible.	
<i>eSKS·N</i>	09 10
<i>i·N</i>	10 21
<i>e·ZNE</i>	13 07
$\Delta = 114^\circ$.	$h = 500$ km. Solomon Islands.
16 <i>ePS·NE</i>	12 26 48
<i>eSS·NE</i>	33.0
<i>L·NE</i>	12.9
$\Delta = 114^\circ$.	Solomon Islands.

Scoresbysund 1957

August	
16 <i>iP·Z'Z</i>	23 ^h 43 ^m 53 ^s
<i>iPP·ZE</i>	46 51
<i>ePPP·E</i>	48 43
<i>iS·NE</i>	53 49
<i>(i)PS·N</i>	54 15
in the time-break.	
<i>iPPS·NE</i>	54 31
<i>iSS·NE</i>	58 53
<i>L·NE</i>	24 08
$\Delta = 78^\circ$.	South of Mexico.
18 <i>L·NE</i>	7 49
18 <i>eP·Z'</i>	8 50 22
<i>ePP·N</i>	54.2
<i>eSKS·NE</i>	9 01.0
<i>iS·E</i>	01 31
<i>ePS·ZE</i>	02.7
<i>e·NE</i>	04 06
<i>eSS·NE</i>	07.9
<i>L·NE</i>	22
$\Delta = 95^\circ$.	Philippine Islands.
18 <i>L·NE</i>	21 46
18 <i>iP·Z'ZN</i>	21 52 36
<i>iS·NE</i>	22 00 44
<i>eScS·NE</i>	02 34
<i>L·NE</i>	09
$\Delta = 60^\circ$.	Kurile Islands.
19 <i>eSS·E</i>	12 11.0
<i>eSSS·E</i>	15.8
<i>L·NE</i>	23
$\Delta = 120^\circ$.	Solomon Islands.
19 <i>eP·Z'Z</i>	21 41 40
<i>eS·NE</i>	49 32
<i>eScS·E</i>	51 37
$\Delta = 57^\circ$.	Aleutian Islands.
20 <i>L·E</i>	6 04
20 <i>ePP·Z</i>	6 47 05
<i>eSKKS·E</i>	54.7
<i>eSS·NE</i>	7 03 44
<i>L·NE</i>	7.5
$\Delta = 120^\circ$.	Solomon Islands.
20 <i>ePP·ZN</i>	12 22 28
<i>eSS·E</i>	38 35
<i>L·NE</i>	13 02
Disturbed by repairs in the pendulum cellar.	
$\Delta = 120^\circ$.	Solomon Islands.
20 <i>L·E</i>	23 02

August	
21 <i>e·Z'</i>	6 ^h 07 ^m 43 ^s
<i>i·Z'</i>	07 47
<i>e·Z'</i>	07 52
21 <i>eP·Z'</i>	19 40 52
$\Delta = 56^\circ$.	Aleutian Islands.
23 <i>ePS·N</i>	2 29.3
<i>ePPS·N</i>	30 43
<i>eSS·NE</i>	35 47
<i>L·N</i>	54
$\Delta = 115^\circ$.	Solomon Islands.
26 <i>iP·Z'</i>	11 42 11
<i>i·Z'</i>	42 18
<i>i·Z'</i>	42 24
<i>ePP·Z'</i>	45 54
<i>eSKS·NE</i>	52 46
<i>eS·NE</i>	53 26
<i>ePS·NE</i>	54.5
<i>L·NE</i>	12 14
$\Delta = 94^\circ$.	Bolivia.
26 <i>eP·Z'</i>	14 11 08
<i>iS·N</i>	21 19
<i>e·NE</i>	21 36
<i>e·NE</i>	22 36
<i>eSS·E</i>	26 20
<i>L·N</i>	36
$\Delta = 81^\circ$.	Equador.
27 <i>ipPKP·Z'</i>	21 17 11
$\Delta = 134^\circ$.	$h = 650$ km. Fiji Islands.
28 <i>(e)P·Z'</i>	23 35 14
in the time-break.	
<i>eSKS·N</i>	45 47
<i>ePS·N</i>	47 04
<i>L·NE</i>	24 06
$\Delta = 88^\circ$.	Mariana Islands.
29 <i>eP·Z'</i>	0 03 10
Repetition.	
29 <i>e·E</i>	11 19 34
<i>i·E</i>	19 44
<i>e·NE</i>	23.2
<i>e·N</i>	27 34
<i>e·ZE</i>	28 05
30 <i>L·NE</i>	16 48
30 <i>L·E</i>	20 56

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September

2	<i>eP·Z'</i>	0 ^h 13 ^m 03 ^s	
	<i>eSKS·N</i>	23 31	
	<i>eS·E</i>	24 07	
	<i>eSS·E</i>	30.2	
	<i>L·E</i>	43	
	$\Delta = 90^\circ$. Mariana Islands.		
2	<i>iP·Z'</i>	7 04 07	
	$\Delta = 6^\circ$. East of Jan Mayen.		
2	<i>eSKS·N</i>	10 12 32	
	<i>L·N</i>	42	
	$\Delta = 122^\circ$. Samoa Islands.		
2	<i>eP·Z'</i>	14 29 48	
	<i>i·Z'</i>	29 51	
	<i>eS·N</i>	37 39	
	<i>eSS·N</i>	41 40	
	<i>L·N</i>	49	
	$\Delta = 56^\circ$. Aleutian Islands.		
2	<i>iP·Z'</i>	21 37 03	
	<i>e·N</i>	40 15	
	<i>e·N</i>	41 35	
	<i>eS·N</i>	44.6	
	$\Delta = 57^\circ$. $h = 200$ km. Hindu Kush.		
3	<i>L·NE</i>	17 07	
3	<i>L·NE</i>	18 28	
3	<i>eS·NE</i>	20 29.5	
	<i>L·NE</i>	30.5	
	<i>M·NE</i>	31	10 ^s . $N: 2 \mu$, $E: 2 \mu$.
	$\Delta = 15^\circ$. North Atlantic Ocean.		
3	<i>L·NE</i>	21 53.7	
4	<i>L·N</i>	5 48	
6	<i>L·NE</i>	5 24	
7	<i>iP·Z'</i>	6 58 41	
	<i>L·NE</i>	7 18	
	$\Delta = 60^\circ$. Kurile Islands.		
7	<i>eP·Z'</i>	10 16 33	
	<i>i·Z'</i>	16 42	
	<i>eS·NE</i>	24 33	
	<i>i·E</i>	31 13	
	<i>L·NE</i>	34	
	$\Delta = 57^\circ$. Aleutian Islands.		

September

12	<i>iP·Z'</i>	0 ^h 38 ^m 46 ^s	
	<i>i·Z'</i>	38 59	
	<i>iS·NE</i>	47 29	
	<i>eSS·N</i>	52 14	
	<i>L·E</i>	59	
	$\Delta = 65^\circ$. Gulf of Honduras.		
19	<i>e·NE</i>	1 17 39	
19	<i>eP·Z'</i>	13 51 52	
	$\Delta = 56^\circ$. Aleutian Islands.		
19	<i>iP·Z'</i>	17 31 47	
	<i>iS·Z'</i>	33 44	
	<i>eS·NE</i>	33 47	
	<i>e·Z'</i>	34 01	
	<i>L·E</i>	34.8	
	$\Delta = 11^\circ$. Greenland Sea.		
20	(<i>iP·Z'</i>	6 31 19	in the time-break.
	<i>eS·Z'NE</i>	33 28	
	<i>L·Z'ZNE</i>	34.5	
	$\Delta = 11^\circ$. Northeastern Greenland.		
	No recording 21 ^d 14 ^h —25 ^d 20 ^h .		
25	<i>L·E</i>	23 11	
26	<i>L·E</i>	0 40	
26	<i>L·E</i>	8 44	
26	<i>L·E</i>	14 15	
26	<i>L·E</i>	19 43	
27	<i>e·E</i>	4 34 52	
	<i>ePS·E</i>	36 45	
	<i>L·E</i>	57	
	$\Delta = 108^\circ$. Molucca Passage.		
27	<i>iP·Z'</i>	5 07 08	
	$\Delta = 45^\circ$. Eastern Siberia.		
27	<i>L·E</i>	11 43	
28	<i>iP·Z'</i>	0 38 41	Ampl. 8 mm.
	<i>iS·NE</i>	48 01	
	<i>e·E</i>	51 09	
	$\Delta = 78^\circ$. $h = 500$ km. Japan.		

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September

28	<i>iPKP·Z'</i>	14 ^h 38 ^m 00 ^s	Ampl. 8 mm.
	<i>iPP·Z'NE</i>	40 11	
	<i>iPKS·NE</i>	41 24	10 ^s . $N: 20 \mu$, $E: 10 \mu$.
	<i>i·E</i>	47 33	
	<i>e·N</i>	52 06	
	<i>iSS·NE</i>	56 37	$N: 10^s$, 15μ , $E: 15^s$, 50μ .
	$\Delta = 128^\circ$. $h = 650$ km. Fiji Islands.		
29	<i>L·NE</i>	4 33	
29	<i>iPKP·Z'</i>	8 31 29	
	<i>iPP·Z'</i>	34 09	
	<i>iSS·NE</i>	51 07	
	$\Delta = 133^\circ$. $h = 600$ km. Fiji Islands.		
October			
1	<i>e·E</i>	3 12 02	
	<i>L·ZNE</i>	12.5	
	<i>M·ZNE</i>	13.2	10 ^s . $N: 3 \mu$, $E: 2 \mu$.
	<i>F·ZNE</i>	14.0	
	Jan Mayen region.		
2	<i>eP·Z'</i>	12 38 42	
	<i>e·Z'</i>	38 54	
	<i>iS·N</i>	47 13	
	<i>e·NE</i>	47 53	
	<i>L·NE</i>	58	
	$\Delta = 65^\circ$. Venezuela.		
4	<i>eP·Z'ZNE</i>	5 36 42	
	<i>eS·N</i>	45 29	
	<i>e(PS)·E</i>	45 40	
	<i>eSS·E</i>	52.5	
	<i>L·E</i>	57.7	
	$\Delta = 65^\circ$. Venezuela.		
5	<i>iP·Z'</i>	0 05 29	
	<i>i·Z'</i>	06 09	
	<i>eS·N</i>	12 49	
	<i>e·NE</i>	13 09	
	$\Delta = 55^\circ$. Aleutian Islands. Possibly two shocks.		
5	<i>iP·Z'</i>	11 44 58	
	<i>eS·E</i>	51 49	
	<i>L·E</i>	12 02.5	
	$\Delta = 45^\circ$. Crete.		
12	<i>L·NE</i>	19 58	
13	<i>L·NE</i>	4 46	
13	<i>L·N</i>	22 08	
14	<i>i·Z'</i>	17 04 16	
	<i>i·Z'</i>	10 18	

October

18	<i>ei·Z'</i>	12 ^h 07 ^m 25 ^s	
19	<i>eP·Z'</i>	18 41 18	
	<i>i·Z'</i>	41 44	
	<i>iSKS·NE</i>	51 31	
	<i>iS·E</i>	51 37	
	<i>i·E</i>	51 49	
	<i>ePPS·E</i>	52 36	
	<i>e·E</i>	53 35	
	<i>eSS·NE</i>	56 50	
	<i>eSSS·E</i>	19 00 38	
	<i>L·NE</i>	06	
	$\Delta = 83^\circ$. Formosa.		
19	<i>iP·Z'</i>	21 52 25	
	$\Delta = 65^\circ$. $h = 150$ km. Japan.		
20	<i>L·NE</i>	12 30	
21	<i>iP·Z'</i>	14 33 05	
	$\Delta = 38^\circ$. Mid Atlantic Ocean.		
23	<i>iP·Z'</i>	6 06 27	
	<i>L·NE</i>	26	
	$\Delta = 57^\circ$. Aleutian Islands.		
24	<i>iP·Z'</i>	21 55 25	
	$\Delta = 67^\circ$. Gulf of California.		
25	<i>iP·Z'</i>	10 13 35	
	<i>L·NE</i>	35	
	$\Delta = 58^\circ$. Kamchatka.		
26	<i>e·Z'</i>	2 25 47	
	<i>e·Z'</i>	26 15	
	$\Delta = 2^\circ?$		
27	<i>iP·Z'</i>	22 41 52	
	<i>ipP·Z'</i>	42 26	
	<i>isP·Z'</i>	42 42	
	$\Delta = 53^\circ$. $h = 150$ km. Kamchatka.		
28	<i>i·Z'</i>	12 58 59	
	<i>i·Z'</i>	13 01 11	
	<i>i·Z'</i>	01 16	
29	<i>i·Z'</i>	17 06 50	
	<i>i·Z'</i>	07 09	
	<i>iL·NE</i>	07 35	15 ^s . $N: 3 \mu$, $E: 8 \mu$.
	<i>iL·Z</i>	08 00	15 ^s , 20μ .
	<i>F·ZNE</i>	08 20	
29	<i>i·Z'</i>	17 08 40	
	<i>i·Z'</i>	08 52	

October	
30 <i>iP·Z'</i>	2 ^h 22 ^m 37 ^s
<i>L·NE</i>	44
$\Delta = 54^\circ$. Aleutian Islands.	
30 <i>L·NE</i>	7 54
31 <i>iP·Z'</i>	10 19 33
$\Delta = 75^\circ$. Panama.	
November	
7 <i>L·NE</i>	7 37
10 <i>eP·Z'</i>	19 31 47
<i>i·Z'</i>	31 54
<i>L·NE</i>	59
$\Delta = 75^\circ$. Japan.	
13 <i>ePKP·Z'</i>	17 42 05
<i>e·Z'ZNE</i>	42 24
<i>ePP·Z'N</i>	45 16
<i>iPKS·NE</i>	45 53
<i>i·NE</i>	46 18
<i>e·NE</i>	57 50
<i>L·NE</i>	18 30
$\Delta = 141^\circ$. Kermadec Islands.	
14 <i>e(L)·Z'</i>	20 51 46 3 ^s .
15 <i>iP·Z'</i>	6 16 37
<i>L·NE</i>	39
$\Delta = 56^\circ$. Aleutian Islands.	
15 <i>L·NE</i>	8 42
15 <i>iP·Z'N</i>	16 40 27
<i>ePPP·NE</i>	43 54
<i>iS·NE</i>	48 25
<i>i·E</i>	48 49
<i>L·NE</i>	58.5
$\Delta = 58^\circ$. Kamchatka.	
16 <i>eP·Z'</i>	1 38.6
<i>e·N</i>	2 11.3
<i>L·NE</i>	16
$\Delta = 56^\circ$. Aleutian Islands.	
17 <i>iP·Z'</i>	6 07 29
$\Delta = 60^\circ$. $h = 350$ km. Sea of Okhotsk.	
17 <i>L·NE</i>	6 57
17 <i>L·NE</i>	16 53

November	
17 <i>iP·Z'</i>	18 ^h 06 ^m 17 ^s
<i>epP·Z'</i>	08 00
$\Delta = 78^\circ$. $h = 450$ km. Japan.	
19 <i>iP·Z'</i>	16 23 45
<i>i·Z'</i>	24 01
$\Delta = 63^\circ$. $h = 100$ km. Kuriles Islands.	
20 <i>iP·Z'</i>	12 49 45
<i>eS·NE</i>	57 12
<i>i·E</i>	59 42
<i>i·E</i>	13 00 02
<i>L·NE</i>	08
<i>M·NE</i>	15
20 ^s . $N: 35 \mu$, $E: 15 \mu$.	
$\Delta = 53^\circ$. Aleutian Islands.	
23 (i) <i>P·Z'</i>	1 08 02
in the time-break.	
<i>eS·N</i>	15 41
<i>L·NE</i>	25
$\Delta = 54^\circ$. Aleutian Islands.	
24 <i>iP·Z'</i>	9 45 36
<i>iS·Z'</i>	47 01
<i>iSg·Z'</i>	47 22
<i>e·ZNE</i>	47 56
$Z: 4^s$, 3μ .	
<i>M·NE</i>	48 13
10 ^s . $N: 2 \mu$, $E: 4 \mu$.	
$\Delta = 7\frac{1}{2}^\circ$. Northern Eastcoast of Greenland.	
25 <i>L·NE</i>	19 20
25 <i>L·NE</i>	20 58
25 <i>L·NE</i>	23 33
26 <i>i·Z'</i>	8 20 51
26 <i>L·NE</i>	12 04
29 <i>eP·Z'</i>	22 32 53
<i>i·Z'</i>	32 58
<i>i·Z'</i>	33 13
<i>ipP·Z'E</i>	33 52
<i>iSKS·NE</i>	42 59
10 ^s . $N: 20 \mu$, $E: 30 \mu$.	
<i>iS·NE</i>	43 49
10 ^s . $N: 15 \mu$, $E: 20 \mu$.	
<i>e(SP)·Z'</i>	45 11
4 ^s .	
<i>iPKKP·Z'</i>	49 41
<i>ipPKKP·Z'</i>	50 13
$\Delta = 97^\circ$. $h = 200$ km. Bolivia.	
30 <i>iP·Z'</i>	22 04 37
<i>eS·E</i>	13 10
<i>L·E</i>	24.5
$\Delta = 63^\circ$. Kurile Islands.	

December	
1 <i>iP·Z'</i>	1 ^h 10 ^m 53 ^s
<i>L·E</i>	29.5
$\Delta = 63^\circ$. Kurile Islands.	
1 <i>iP·Z'</i>	1 19 27
$\Delta = 63^\circ$. Kurile Islands.	
3 <i>iP·Z'</i>	0 01 53
<i>eS·Z'</i>	04 07
<i>iL·Z'NE</i>	05 26
<i>M·E</i>	05.6
10 ^s , 4μ .	
$\Delta = 13^\circ$. $h = 100$ km. North-east coast of Greenland.	
3 <i>iP·Z'</i>	21 55 53
$\Delta = 55^\circ$. Aleutian Islands.	
4 <i>iP·Z'</i>	3 47 38
<i>L·Z'NE</i>	4 07
<i>iPKPPKP·Z'</i>	17 29
Other phases illegible due to heavy microseisms.	
$\Delta = 57^\circ$. Outer Mongolia.	
6 <i>iP·Z'</i>	4 00 08
$\Delta = 64^\circ$. Kuriles Islands.	
11 <i>iP·Z'</i>	18 23 11
$\Delta = 78^\circ$. Japan.	
13 <i>iP·Z'</i>	1 43 18
<i>i·Z'</i>	43 30
$\Delta = 73^\circ$. $h = 100$ km. Colombia.	
13 <i>iP·Z'Z</i>	1 54 06
<i>i·Z'</i>	54 14
<i>i·Z'ZE</i>	56 07
<i>iS·NE</i>	2 01 34
10 ^s . $N: 10 \mu$, $E: 10 \mu$.	
<i>iSS·NE</i>	04 59
<i>L·NE</i>	10
<i>M·NE</i>	16
16 ^s . $N: 10 \mu$, $E: 25 \mu$.	
$\Delta = 52^\circ$. Iran.	
13 <i>iP·Z'</i>	20 35 58
<i>L·NE</i>	53
$\Delta = 55^\circ$. Aleutian Islands.	
13 <i>iP·Z'</i>	22 21 28
<i>i(S)·Z'</i>	21 34
Lightspot on Z displaced in the same moment.	
$\Delta = \frac{1}{2}^\circ$.	
16 <i>eS·NE</i>	17 43 44
<i>L·NE</i>	52.5
Z and Z' out of order.	
$\Delta = 48^\circ$. Vancouver Island.	

December	
17 <i>eP·Z'</i>	5 ^h 20 ^m 06 ^s
<i>e·Z'</i>	20 38
<i>iS·E</i>	27 45
<i>e·N</i>	27 56
<i>L·NE</i>	38
<i>M·NE</i>	47
18 ^s . $N: 20 \mu$, $E: 16 \mu$.	
$\Delta = 57^\circ$. Kamchatka.	
17 <i>eP·Z'</i>	6 56 44
<i>e·Z'</i>	57 26
Arctic?	
17 <i>ePKP·Z'</i>	14 08 59
<i>i·Z'</i>	09 01
<i>epPKP·Z'</i>	09 34
<i>i·Z'</i>	09 43
<i>iPP·Z'N</i>	10 33
<i>iPKKP·Z'</i>	19 02
<i>i·Z'</i>	19 10
<i>ePS·N</i>	20 28
<i>iPKKS·N</i>	22 57
<i>i·Z'</i>	23 02
<i>iSS·E</i>	26 48
<i>L·NE</i>	46
<i>M·N</i>	49
30 ^s , 60μ .	
$\Delta = 122^\circ$. $h = 100$ km. Santa Cruz Islands.	
23 <i>eP·Z'</i>	12 41 09
<i>eS·E</i>	46 49
<i>i·E</i>	49 38
<i>L·NE</i>	49.9
$\Delta = 36^\circ$. Mid Atlantic ridge.	
27 <i>L·NE</i>	7 55
31 <i>L·NE</i>	10 28.1
$M: 10^s$. $N: 10 \mu$, $E: 10 \mu$.	
31 <i>eL·NE</i>	13 14.6
31 (i) <i>PKP·Z'</i>	14 48 04
in the time-break.	
<i>i·Z'</i>	48 10
<i>L·NE</i>	15.8
$\Delta = 154^\circ$. New Zealand.	
June 1959.	

HENRY JENSEN

Microseisms. Scoresbysund

1957 July		N				E			
Z		0h	6h	12h	18h	0h	6h	12h	18h
1	2 0.2 4.0	2 0.2 4.0	2 0.2 4.2	2 0.2 4.0	2 0.2 4.1	2 0.2 4.0	2 0.2 3.9	2 0.2 4.1	2 0.2 3.9
2	2 0.2 4.0	2 0.2 4.0	2 0.2 4.2	2 0.2 4.1	2 0.2 4.1	2 0.2 4.2	2 0.2 4.3	2 0.2 4.5	2 0.2 4.4
3	...	...	...	...	...	2 0.2 4.5	2 0.2 4.3	2 0.2 4.4	...
4	...	...	2 0.2 4.5	2 0.2 4.4	2 0.2 4.4	2 0.1 4.3	2 0.1 4.2	2 0.1 4.2	2 0.2 4.3
5	2 0.3 4.5	2 0.2 4.5	2 0.2 4.5	2 0.2 4.5	2 0.2 4.5	2 0.2 4.5	2 0.2 4.4	2 0.2 4.5	2 0.2 4.5
6	2 0.2 4.5	2 0.2 4.5	2 0.2 4.5	2 0.2 4.5	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-
7	2 0.2 4.5	2 0.2 4.5	2 0.2 4.5	...	2 0.1 4.5	2 0.2 4.6	2 0.2 4.6	2 0.2 4.6	...
8	...	...	...	2 0.2 4.7	2 0.2 4.7	2 0.1 4.6	2 0.1 4.6	...	2 0.2 4.7
9	2 0.2 4.5	2 0.2 4.5	2 0.2 4.8	2 0.2 4.8	2 0.1 4.6	2 0.2 4.6	2 0.2 4.7	2 0.2 4.6	2 0.2 4.6
10	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-	0.1	0.1	0.1	0.1	0.1
11	...	...	...	...	0.1	0.1	0.1	0.1	0.1
12	...	...	...	...	0.1	0.1	0.1	0.1	0.1
13	...	...	...	...	0.1	0.1	0.1	0.1	0.1
14	...	...	...	...	0.1	0.1	0.1	0.1	0.1
15	...	...	...	...	0.1	0.1	0.1	0.1	0.1
16	...	...	...	...	0.2	0.2	0.2	0.2	0.2
17	...	...	...	...	0.2	0.2	0.2	0.2	0.1
18	...	...	...	...	2 0.1 5.-	2 0.2 4.8	2 0.3 4.8	2 0.3 4.7	2 0.3 4.9
19	...	...	...	...	2 0.2 4.8	2 0.2 4.8	2 0.2 4.7	2 0.3 4.7	2 0.2 4.8
20	...	...	...	...	2 0.2 5.0	2 0.2 5.0	2 0.2 4.9	2 0.2 4.9	2 0.2 5.0
21	...	...	...	...	2 0.2 4.9	2 0.2 4.8	2 0.1 5.-	2 0.2 4.8	...
22	...	...	...	...	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-	...	2 0.2 5.-
23	...	...	...	...	2 0.1 5.-	2 0.2 5.-	2 0.1 5.-	2 0.2 4.-	2 0.2 4.-
24	0.2	0.2	0.2	0.2	0.1 4.-	...	...	...	2 0.2 4.5
25	0.2	0.2	0.2	0.2	2 0.3 4.4	2 0.1 4.-	2 0.2 4.-	2 0.2 4.3	2 0.2 4.4
26	2 0.3 4.2	2 0.3 4.1	...	...	2 0.2 4.2	2 0.2 4.3	2 0.2 4.4	2 0.2 4.5	2 0.3 4.7
27	2 0.3 5.-	2 0.3 5.-	2 0.3 5.-	...	2 0.2 4.8	2 0.2 4.9	2 0.3 4.6	2 0.3 4.6	2 0.2 4.6
28	2 0.2 4.5	2 0.2 4.5	...	...	2 0.2 4.7	2 0.1 4.5	...	2 0.2 4.7	2 0.1 4.8
29	2 0.2 5.-	2 0.2 5.-	2 0.2 5.-	...	2 0.1 5.-	2 0.1 5.-	2 0.1 4.8	2 0.1 4.6	...
30	...	...	...	...	2 0.2 5.0	2 0.3 5.0	2 0.2 4.9	2 0.3 4.8	2 0.3 4.8
31	...	...	...	2 0.2 4.2	...	...	...	...	2 0.2 4.5

Microseisms. Scoresbysund

1957 Aug.		N				E			
Z		0h	6h	12h	18h	0h	6h	12h	18h
1	2 0.2 4.-	2 0.2 4.-	2 0.2 4.-	2 0.2 4.-	2 0.2 4.-	2 0.2 4.3	2 0.1 4.2	2 0.1 4.-	2 0.1 4.-
2	2 0.2 5.-	2 0.2 5.-	2 0.2 5.-	2 0.3 4.3	2 0.3 4.5	2 0.1 4.2	2 0.1 4.3	2 0.1 4.2	2 0.2 4.2
3	2 0.3 4.3	2 0.3 4.4	2 0.3 4.3	2 0.2 4.-	2 0.2 4.0	2 0.2 4.2	2 0.2 4.3	2 0.2 4.2	2 0.1 4.4
4	2 0.2 4.5	2 0.2 4.-	2 0.2 4.-	2 0.2 4.-	2 0.1 4.2	2 0.1 4.-	2 0.1 4.1	2 0.1 4.-	2 0.1 4.3
5	2 0.2 4.-	2 0.2 4.-	2 0.2 4.-	2 0.2 4.-	...	2 0.1 4.-	...	2 0.1 4.-	2 0.1 4.-
6	0.1	0.1	0.1	0.1	2 0.1 5.-	2 0.1 4.-	2 0.1 4.5	2 0.1 4.5	2 0.1 5.-
7	0.1	0.1	0.1	0.1	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-
8	0.1	0.1	0.1	0.1	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-
9	0.1	0.1	0.1	0.1	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-
10	0.1	0.1	0.1	0.1	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-	2 0.1 5.-
11	2 0.2 4.-	2 0.2 5.-	2 0.2 5.-	2 0.2 5.-	2 0.2 4.8	2 0.2 4.9	2 0.2 4.9	2 0.2 4.9	2 0.2 4.8
12	2 0.2 5.-	2 0.2 5.-	2 0.2 5.-	2 0.2 5.-	2 0.2 5.0	2 0.2 5.0	2 0.2 4.8	2 0.2 4.9	2 0.2 5.0
13	2 0.2 5.-	2 0.2 5.-	2 0.2 5.-	2 0.2 5.-	0.1	0.1	2 0.1 4.7	2 0.1 4.7	2 0.2 4.7
14	2 0.2 5.-	2 0.2 5.-	2 0.2 5.-	2 0.2 4.-	0.1	0.1	2 0.1 4.8	2 0.1 4.7	2 0.1 4.6
15	2 0.2 4.-	2 0.2 4.-	2 0.2 4.-	2 0.2 4.-	...	...	2 0.2 4.5	2 0.2 4.5	2 0.1 4.4
16	...	2 0.2 4.-	2 0.3 4.-	...	2 0.1 4.4	2 0.2 4.3	2 0.1 4.-	2 0.1 4.-	...
17	...	2 0.4 4.4	2 0.4 4.2	2 0.4 4.2	2 0.4 4.3	2 0.4 4.2	2 0.5 4.1	2 0.4 4.1	2 0.4 4.3
18	2 0.4 4.3	2 0.5 4.2	2 0.6 4.1	2 0.6 4.1	2 0.5 4.1	2 0.5 4.2	2 0.5 4.3	2 0.6 4.1	2 0.6 4.1
19	2 0.6 4.2	2 0.5 4.1	2 0.5 4.1	2 0.4 4.3	2 0.4 4.2	2 0.4 4.2	2 0.4 4.2	2 0.4 4.3	2 0.2 4.2
20	2 0.4 4.3	2 0.3 4.2	2 0.3 4.3	2 0.3 4.4	2 0.2 4.2	2 0.2 4.2	2 0.2 4.3	2 0.2 4.5	2 0.2 4.4
21	2 0.3 4.5	2 0.4 4.6	2 0.4 4.7	2 0.7 4.8	2 0.2 4.4	2 0.3 4.6	2 0.2 4.5	2 0.3 4.8	2 0.6 5.0
22	1 1.1 4.9	1 1.6 4.7	1 1.9 4.8	1 1.6 4.9	1 1.1 4.8	1 1.1 4.7	1 0.6 4.9	1 1.2 4.6	1 1.1 4.7
23	1 1.3 4.8	1 1.1 4.8	2 0.9 4.8	...	1 1.2 4.9	1 0.9 5.0	1 0.9 4.9	1 0.7 4.8	1 0.7 5.0
24	...	...	...	...	1 0.5 5.0	1 0.5 5.2	1 0.8 5.7	1 0.7 5.2	1 0.8 5.3
25	...	...	...	...	1 0.9 5.7	1 1.1 5.8	1 0.8 5.7	1 0.8 5.4	1 0.7 5.5
26	...	...	...	...	2 0.6 5.6	2 0.5 5.2	2 0.6 5.3	2 0.5 5.0	2 0.4 5.0
27	...	...	...	...	2 0.4 5.0	2 0.3 5.1	2 0.2 4.8	2 0.2 4.8	2 0.2 4.6
28	...	...	...	2 0.6 4.5	2 0.2 4.6	2 0.2 4.4	2 0.3 4.3	2 0.2 4.6	2 0.4 4.4
29	2 0.5 4.4	2 0.4 4.5	2 0.4 4.4	...	2 0.4 4.3	2 0.2 4.5	2 0.3 4.3	2 0.2 4.4	2 0.3 4.3
30	...	...	...	...	2 0.4 4.5	2 0.4 4.4	2 0.5 4.7	2 0.5 4.5	2 0.5 4.8
31	...	...	...	2 0.4 4.7	2 0.3 4.8	2 0.3 4.8	2 0.3 4.8	2 0.5 5.0	2 0.3 4.7

