

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'*. $T_p = 1 \text{ sec, } T_g = \frac{1}{4} \text{ sec, } V_{\max}$ 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. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.

Scoresbysund 1955

January

3 $iP \cdot Z'$ 1^h14^m31^s
 $L \cdot E$ 29
 $\Delta = 39^\circ$. Greece.

3 $eP \cdot Z'Z$ 18 55 05 in the time break.
 $eSKS \cdot E$ 19 05 45
 $eS \cdot NE$ 06 13
 $ePS \cdot N$ 07 28
 $eSS \cdot N$ 12.4
 $L \cdot NE$ 32
 $\Delta = 92^\circ$. Peru.

5 $iPKP1 \cdot Z'ZNE$ 1 10 18
 $iPKP2 \cdot ZN$ 11 02
 $ePKS \cdot N$ 13 54
 $iPP \cdot Z$ 14 22
 $iPPPP \cdot E$ 20 13
 $i \cdot E$ 32 44
 $eSS \cdot E$ 34 54
 $eSSS \cdot E$ 41 14
 $eSS2 \cdot E$ 41 52
 $L \cdot NE$ 2 06
 $M \cdot E$ 20 35^s, 30 μ .
 $\Delta = 160^\circ$. New Zealand.

5 $eP \cdot Z'$ 15 37 54
 $L \cdot NE$ 57
 $\Delta = 55^\circ$. Kamchatka.

5 $ePKP \cdot Z'$ 18 07 41
 $ePP \cdot N$ 09 29
 $e(PKS) \cdot N$ 11 04
 $ePS \cdot N$ 19 30
 $eSS \cdot NE$ 26.1
 $L \cdot NE$ 49
 $M \cdot NE$ 58 22^s, 14 μ .
 $\Delta = 125^\circ$. New Hebrides.

6 $ePKP \cdot Z'$ 0 01 09
 $ePP \cdot NE$ 03 09
 $e(PKS) \cdot N$ 04 19
 $i \cdot Z$ 06 15
 $eSKS \cdot E$ 08 21
 $ePS \cdot NE$ 13 12
 $ePPS \cdot E$ 14 44
 $i \cdot NE$ 15 50
 $eSS \cdot NE$ 19 49
 $eSSS \cdot E$ 24 47
 $L \cdot NE$ 45
 $\Delta = 125^\circ$. New Hebrides.

6 $ePKP \cdot Z'$ 2 41 42
 $ePP \cdot Z$ 43 31
 $e(PKS) \cdot N$ 45 04
 $ePS \cdot N$ 53 36
 $\Delta = 125^\circ$. New Hebrides.

January

6 $ePKP \cdot Z'$ 10^h07^m20^s
 $L \cdot NE$ 51
 $\Delta = 125^\circ$. New Hebrides.

7 $ePPS \cdot E$ 10 13 44
 $eSS \cdot E$ 18 37
 $e \cdot E$ 19 31
 $\Delta = 108^\circ$. Indian Ocean.

8 $ePKP \cdot Z'$ 7 52.5
 $ePP \cdot NE$ 54 14
 $ePS \cdot N$ 8 04 00
 $e \cdot Z$ 10 19
 $L \cdot NE$ 32
 $\Delta = 120^\circ$. Santa Cruz Islands.

8 $iP \cdot Z'$ 8 00 26
 $\Delta = 39^\circ$. Greece.

8 $iP \cdot Z'$ 9 12 24
 $ipP \cdot Z'$ 12 44
 $\Delta = 77^\circ$. $h = 100$ km. Japan.

8 $eP \cdot Z'$ 10 11 56
 $\Delta = 93^\circ$. Galapagos Islands.

9 $eP \cdot Z'$ 0 37 22
 $\Delta = 55^\circ$. Kamchatka.

10 $iPKP \cdot Z'$ 22 01 57
 $\Delta = 122^\circ$. $h = 100$ km. Samoa Islands.

11 $iP \cdot Z'$ 14 00 27
 $iPcP \cdot Z'$ 00 36
 $\Delta = 80^\circ$. Ryukyu Islands.

13 $ePKP \cdot Z'$ 0 33 30
 $\Delta = 128^\circ$. Sandwich Islands.

13 $iP \cdot Z'$ 2 13 12
 $iS \cdot NE$ 20 47
 $eSeS \cdot NE$ 22 59
 $L \cdot NE$ 30
 $M \cdot ZNE$ 35 $Z: 25^s, 70 \mu$. $N: 24^s, 70 \mu$. $E: 20^s, 100 \mu$.
 $\Delta = 54^\circ$. Aleutian Islands.

13 $iP \cdot Z'$ 2 45 14
 Repetition.

13 $iP \cdot Z'$ 2 54 14
 Repetition.

14 $eP \cdot Z'$ 7 56 17
 $\Delta = 75^\circ$. Assam-Burma border.

Scoresbysund 1955

January

15 $eP \cdot Z'$ 16^h05^m16^s
 $eS \cdot Z'$ 06 32
 $i \cdot Z'$ 06 36
 $i \cdot Z'$ 06 46
 $M \cdot E$ 07 10^s, 5 μ .
 $\Delta = 6\frac{1}{2}^\circ$. Iceland.

15 $ePn \cdot Z'$ 16 44 40
 $iP^* \cdot Z'$ 44 52
 $iSn \cdot Z'$ 46 00
 $iS^* \cdot Z'$ 46 12
 $M \cdot E$ 47 10^s, 5 μ .
 $\Delta = 6\frac{1}{2}^\circ$. Iceland.

15 $eS \cdot Z'$ 23 55 10
 Iceland.

16 $eS \cdot Z'$ 1 45 22
 Iceland.

17 $eP \cdot Z'$ 2 33 17
 $\Delta = 73^\circ$. Japan.

25 $iP \cdot Z'$ 14 52 47
 $eS \cdot Z'$ 54 38
 Strong microseisms.
 $\Delta = 11^\circ$. West of Svalbard.

28 $eP \cdot Z'$ 7 50 09
 $\Delta = 44^\circ$. Crete.

28 $eP \cdot Z'$ 17 13 12
 $eSSS \cdot NE$ 28.6
 $L \cdot NE$ 35
 Strong microseisms.
 $\Delta = 63^\circ$. Tibet.

29 $eP \cdot Z'$ 17 13 35
 $e \cdot Z'$ 13 49
 $L \cdot NE$ 35
 $\Delta = 58^\circ$. Kamchatka.

31 $eP \cdot Z'$ 2 54 52
 $\Delta = 63^\circ$. Kurile Islands.

31 $iP \cdot Z'$ 5 15 48
 $i \cdot Z'$ 15 53
 $\Delta = 87^\circ$. Brazil.

31 $e \cdot Z'$ 9 41 30
 $e \cdot Z'$ 42 03
 Near shock.

31 $e \cdot Z'$ 9 46 39
 Thereafter many overlapping near shocks until about 10^h37^m.

January

31 $e \cdot Z'$ 10^h50^m37^s
 $e \cdot Z'$ 51 23
 Thereafter several overlapping near shocks until about 11^h30^m.

31 $e \cdot Z'$ 11 32 16
 Near shock.

31 $e \cdot Z'$ 11 49 19
 $e \cdot Z'$ 49 49
 Near shock.

31 $e \cdot Z'$ 11 55 00
 $e \cdot Z'$ 55 49
 Near shock.

31 $e \cdot Z'$ 12 02 27
 $e \cdot Z'$ 03 00
 Near shock.

31 $e \cdot Z'$ 12 16 52
 $e \cdot Z'$ 17 44
 Near shock.

31 $e \cdot Z'$ 12 29 45
 $e \cdot Z'$ 30 30
 Near shock.

31 $e \cdot Z'$ 12 54.6

31 $e \cdot Z'$ 13 05 14
 $e \cdot Z'$ 05 47
 Near shock.

31 $e \cdot Z'$ 13 22 26

31 $e \cdot Z'$ 13 44.3

31 $e \cdot Z'$ 14 01 21

31 $e \cdot Z'$ 14 05 48

31 $e \cdot Z'$ 14 19 41
 $e \cdot Z'$ 20 15
 Near shock.

31 $e \cdot Z'$ 14 29 31
 $e \cdot Z'$ 29 58
 Near shock.

The shocks between 9^h41^m and 14^h30^m possibly minor quakes from Jan Mayen.

31 $i \cdot Z'$ 16 12 38
 $\Delta = 63^\circ$. Kurile Islands.

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February		February		
1 <i>e·Z'</i>	0 ^b 10 ^m 12 ^s	6 <i>e·Z'</i>	6 ^b 45 ^m 40 ^s	
	10 35			
	Near shock.			
1 <i>e·Z'</i>	15 18 58	6 <i>e·Z'</i>	7 07 03	
	19 28	<i>i·Z'</i>	07 27	
	Near shock.	<i>i·Z'</i>	07 42	
1 <i>e·Z'</i>	19 27 03	6 <i>e·Z'</i>	10 14 48	
	27 27	6 <i>iPKP·Z'</i>	10 24 53	
	Near shock.	$\Delta = 128^\circ$.	Sandwich Islands.	
2 <i>e·Z'</i>	8 40 31	6 <i>e·Z'</i>	14 02 40	
	41 00	6 <i>e·Z'</i>	17 02 36	
	Near shock.	6 <i>e·Z'</i>	17 58 41	
2 <i>e·Z'</i>	11 36 13	7 <i>e·Z'</i>	20 08 22	
2 <i>e·Z'</i>	15 32 56	9 <i>e·Z'</i>	8 17 43	
3 <i>e·Z'</i>	1 40 19	10 <i>iP·Z'</i>	0 13 24	
3 <i>i·Z'</i>	12 50 54	<i>L·NE</i>	35	
$\Delta = 54^\circ$.	Off coast of Oregon.	$\Delta = 60^\circ$.	Kurile Islands.	
4 <i>e·Z'</i>	5 46 36	12 <i>e·Z'</i>	5 54 49	
	47 25	<i>e·Z'</i>	55 21	
4 <i>e·Z'</i>	8 56 41		Jan Mayen?	
	57 08	15 <i>ePS·E</i>	6 52.2	
	Near shock.	<i>eSS·E</i>	58.6	
4 <i>e·Z'</i>	9 05 15	<i>L·NE</i>	7 22	
	05 51	$\Delta = 126^\circ$.	New Hebrides.	
	$\Delta = 2^\circ$.	Jan Mayen.	15 <i>L·NE</i>	19 43
4 <i>e·Z'</i>	9 29 10	18 <i>iP·Z'</i>	22 58 54	
4 <i>e·Z'</i>	18 54 51	<i>eS·E</i>	23 07 18	
5 <i>e·Z'</i>	20 52 31	<i>L·NE</i>	24	
$\Delta = 63^\circ$.	Kurile Islands.	$\Delta = 62^\circ$.	Pakistan.	
6 <i>e·Z'</i>	0 56 11	21 <i>L·E</i>	14 55.8	
	56 36	21 <i>e·Z'</i>	15 46 13	
	$\Delta = 2^\circ$.	Jan Mayen.	21 <i>eP·Z'</i>	23 20 57
6 <i>i·Z'</i>	2 28 31	<i>L·N</i>	29	
	28 58	$\Delta = 30^\circ$.	Azores.	
	$\Delta = 2^\circ$.	Jan Mayen.	23 <i>iPKP·Z'</i>	11 59 02
6 <i>e·Z'</i>	2 42 37	$\Delta = 126^\circ$.	$h = 600$ km. Fiji Islands.	
6 <i>e·Z'</i>	3 41 48	23 <i>L·E</i>	19 34	
6 <i>e·Z'</i>	5 50 42	23 <i>eP·Z'</i>	20 13 29	
		$\Delta = 77^\circ$.	Japan.	

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February		March	
27 <i>eP·Z'</i>	7 ^b 48 ^m 14 ^s	6 <i>eP·Z'</i>	13 ^b 47 ^m 07 ^s
$\Delta = 5^\circ$.	NE of Iceland.	<i>iSKS·E</i>	57 44
27 <i>eP·Z'</i>	8 29 47	<i>iS·E</i>	58 27
$\Delta = 5^\circ$.	NE of Iceland.	<i>ePPS</i>	14 00 24
27 <i>eP·Z'</i>	16 47 35	<i>L·E</i>	22
$\Delta = 65^\circ$.	Mid Atlantic ridge.	$\Delta = 97^\circ$.	Philippine Islands.
27 <i>iPKP·Z'</i>	21 02 43	6 <i>i·Z'</i>	18 59 38
<i>iPP·Z'NE</i>	05 23	7 <i>ePKP·Z'</i>	5 03 52
<i>iPKS·NE</i>	06 25	$\Delta = 127^\circ$.	New Hebrides.
<i>L·NE</i>	48	9 <i>L·NE</i>	10 08
<i>M·NE</i>	55	9 <i>iP·Z'</i>	17 24 01
$\Delta = 135^\circ$.	Kermadec Islands.	$\Delta = 85^\circ$.	Peru.
28 <i>e·Z'</i>	4 00 18	10 <i>iP·Z'</i>	21 26 47
		$\Delta = 62^\circ$.	India.
March		10 <i>L·E</i>	22 06
1 <i>eP·Z'</i>	0 34 53	11 <i>iP·Z'</i>	21 53 34
$\Delta = 5^\circ$.	Greenland Sea.	$\Delta = 58^\circ$.	Kamchatka.
1 <i>iP·Z'</i>	1 59 19	11 <i>P·Z'</i>	23 46 26 very weak
$\Delta = 93^\circ$.	Brazil.	$\Delta = 98^\circ$.	Philippine Islands.
1 (<i>iP·Z'</i>)	4 50 07 in the time break.	13 <i>e·Z'</i>	2 14 48
<i>iPP·Z'</i>	51 28	13 <i>e·Z'</i>	2 57 45
<i>L·Z'</i>	5 02 24	13 <i>eP·Z'</i>	4 14 04
Strong microseisms on Galitzin.		$\Delta = 60^\circ$.	Kurile Islands.
$\Delta = 37^\circ$.	Yukon, Canada.	14 <i>iP·Z'</i>	13 21 31
1 <i>eP·Z'</i>	14 09 33	<i>i·Z'</i>	22 15
Repetition.		<i>iS·E</i>	29 06
1 <i>e·Z'</i>	14 20 34	<i>i·E</i>	30 13
1 <i>iP·Z'</i>	14 53 44	$\Delta = 55^\circ$.	$h = 100$ km. Aleutian Islands.
$\Delta = 79^\circ$.	Japan.	15 <i>e·Z'</i>	0 51 03
1 <i>i·Z'</i>	17 03 00	16 <i>L·NE</i>	22 38
3 <i>iP·Z'E</i>	20 48 56	17 <i>e·Z'</i>	19 22 23
<i>i·E</i>	49 33	18 <i>iP·Z'ZNE</i>	0 16 21
<i>iS·E</i>	49 59	<i>iS·N</i>	24 04
$\Delta = 6^\circ$.	Jan Mayen region.	<i>i·NE</i>	24 26
5 <i>eP·Z'</i>	19 38 31 very weak.	<i>L·NE</i>	33.8
<i>e·Z'</i>	38 51	<i>M·N</i>	36
$\Delta = 60^\circ$.	Mid Atlantic ridge.	$\Delta = 55^\circ$.	Kamchatka.
6 <i>L·E</i>	7 09	18 <i>e·Z'</i>	0 46 22
6 <i>eP·Z'</i>	11 09 02		
<i>L·E</i>	46		
$\Delta = 97^\circ$.	Philippine Islands.		

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March

19	<i>e(P)·Z'</i> (<i>L</i>)· <i>NE</i>	7 ^h 00 ^m 43 ^s 05	
21	<i>iP·Z'</i>	13 13 44	$\Delta = 75^\circ$. China-Burma border.
22	<i>e(P)·Z'</i>	2 38 44	$\Delta = 25^\circ$. North Atlantic Ocean.
22	<i>iP·Z'</i>	6 25 45	$\Delta = 75^\circ$. Burma.
22	<i>iPPP·Z'</i> <i>ePPP·NE</i> <i>iSKS·NE</i> <i>i·E</i> <i>iSS·NE</i> <i>L·NE</i>	14 23 29 26 03 30 04 33 22 39 15 58	$\Delta = 106^\circ$. Indian Ocean.
23	<i>ePKP2</i>	17 37 19	$\Delta = 165^\circ$. Macquarie Islands.
24	<i>i·Z'</i>	12 05 43	
25	<i>i·Z'</i>	23 02 14	
27	<i>iP·Z'ZE</i> <i>ePPP·N</i> <i>L·E</i>	14 49 54 53 56 15 15	$\Delta = 69^\circ$. Tibet.
28	<i>iP·Z'ZN</i> <i>iS·E</i> <i>L·NE</i>	1 03 30 07 14 10	$\Delta = 21^\circ$. North Atlantic Ocean.
28	<i>iP·Z'ZNE</i> <i>i·Z'Z</i> <i>e·ZNE</i> <i>eS·E</i> <i>L·NE</i>	9 24 14 24 30 30 25 34 30 51	$\Delta = 79^\circ$. Ryukyu Islands.
28	<i>eP·Z'</i> <i>i·Z'</i> <i>L·NE</i>	14 53 26 53 32 15 05	$\Delta = 40^\circ$. Ionian Sea.
31	<i>iP·Z'ZNE</i> <i>i·Z'Z</i> <i>iPPP·ZNE</i> <i>iPPPP·ZNE</i> <i>iSKS·N</i> <i>eSS·N</i> <i>L·NE</i> <i>M·N</i>	18 30 45 30 58 34 53 38 51 41 40 49 08 19 03 07	38 ^s , 150 μ . $\Delta = 98^\circ$. Philippine Islands.

March

31	<i>eP·Z'</i> <i>e·Z'</i>	21 ^h 06 ^m 19 ^s 06 28	$\Delta = 98^\circ$. Philippine Islands.
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April

1	<i>e·Z'</i> <i>e·Z'</i>	17 27 40 29 08	
1	<i>ePn·Z'</i> <i>eP*·Z'</i> <i>eSn·E</i> <i>eS*·ZNE</i> <i>M·E</i>	18 43 04 43 15 44 18 44 33 45	10 ^s , 25 μ . $\Delta = 6^\circ$. Iceland.
4	<i>iP·Z'Z</i> <i>i·Z</i> <i>ePP·NE</i> <i>iSKS·NE</i> <i>L·E</i>	11 23 56 24 08 27 13 34 19 51.8	$\Delta = 84^\circ$. Formosa.
4	<i>iP·Z'Z</i> <i>ePP·ZE</i> <i>iS·NE</i> <i>eScS·E</i> <i>eSS·E</i> <i>eSSS·N</i> <i>L·NE</i>	19 35 16 38 22 44 31 45 20 49 01 52.0 58	$\Delta = 71^\circ$. Nicaragua.
5	<i>eP·Z'</i> <i>i·Z'</i> <i>eS·N</i> <i>i·NE</i> <i>eScS·NE</i> <i>iSS·N</i> <i>iSSS·E</i> <i>L·NE</i> <i>M·N</i> <i>M·E</i>	15 20 07 20 09 28 55 29 00 30 01 33 13 35 51 43 45 48	20 ^s , 80 μ . 15 ^s , 45 μ . $\Delta = 66^\circ$. Gulf of California.
5	<i>eP·Z'</i> <i>ePP·Z'</i>	16 27 19 29 44	$\Delta = 66^\circ$. Repetition.
10	<i>eP·Z'</i>	17 51 57	$\Delta = 98^\circ$. Philippine Islands.
13	<i>iP·Z'</i>	20 53 30	$\Delta = 40^\circ$. Greece.

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April

14	<i>eP·Z'</i> <i>i·Z'Z</i> <i>iPP·ZNE</i> <i>ePPP·ZNE</i> <i>iS·N</i> <i>i·NE</i> <i>iSS·E</i> <i>eSSS·NE</i> <i>L·NE</i> <i>M·N</i>	1 ^h 40 ^m 24 ^s 40 29 43 14 44 52 49 53 50 00 54 39 57 54 2 02.5 07	Z: 5 ^s , 10 μ . 12 ^s , 25 μ . 30 ^s , 120 μ . $\Delta = 73^\circ$. Sikang province, China.
15	<i>iP·Z'Z</i> <i>ePP·ZNE</i> <i>ePPP·ZNE</i> <i>iS·NE</i> <i>eSS·N</i> <i>L·NE</i> <i>M·E</i>	3 50 30 52 37 53 44 58 16 4 02 04 08 12	15 ^s , 40 μ . $\Delta = 56^\circ$. Kirghizia SSR.
15	<i>iP·Z'</i>	4 23 02	
17	<i>iP·Z'Z</i> <i>ipP·Z'Z</i> <i>ePP·NE</i> <i>ePPP·N</i> <i>iS·E</i> <i>i·E</i> <i>i·N</i> <i>eScS·NE</i> <i>L·NE</i> <i>M·NE</i>	18 45 18 45 35 47 35 48 48 53 17 53 35 53 45 55 02 19 05 09	20 ^s . N: 15 μ . E: 25 μ . $\Delta = 58^\circ$. $h = 60$ km. Kamchatka.
17	<i>iP·Z'</i>	23 32 12	$\Delta = 80^\circ$. $h = 350$ km. Bonin Islands.
18	<i>L·E</i>	9 40	
19	<i>iP·Z'ZNE</i> <i>iPP·E</i> <i>eS·N</i> <i>i·E</i> <i>e·N</i> <i>L·NE</i>	16 54 48 56 17 17 00 44 00 49 03 42 08	$\Delta = 39^\circ$. Greece.
19	No recording from 20 ^h 05 ^m to 21 ^h 51 ^m .		
20	<i>eSKS·NE</i> <i>eSKKS·NE</i> <i>eS·N</i> <i>ePS·E</i>	2 37 33 38 20 38 51 40 41	$\Delta = 107^\circ$. Chile.

April

20	<i>eP·Z</i> <i>ePP·ZNE</i> <i>sSKS·NE</i> <i>ePS·NE</i> <i>eL·NE</i>	6 ^h 02 ^m 58 ^s 07 16 13 35 16 36 37	$\Delta = 107^\circ$. Chile.
21	<i>iP·Z'Z</i> <i>iPP·ZNE</i> <i>iS·E</i> <i>eSS·NE</i> <i>L·NE</i>	7 25 49 27 21 31 47 34 41 40	$\Delta = 39^\circ$. Greece.
22	<i>iP·Z'Z</i>	16 37 58	$\Delta = 63^\circ$. $h = 100$ km. Kurile Islands.
23	<i>iP·Z'</i> <i>ipP·Z'</i>	16 50 33 52 19	$\Delta = 80^\circ$. $h = 500$ km. Bonin Islands.
24	<i>eP·Z'</i> <i>i·Z'</i> <i>i·Z'</i> <i>eS·N</i> <i>L·E</i>	13 08 35 08 42 12 38 16 14 28	$\Delta = 55^\circ$. Sinkiang province, China.
26	<i>L·NE</i>	3 37	
28	<i>L·NE</i>	1 30	
28	<i>iP·Z'</i> <i>ePPP·ZNE</i> <i>iS·NE</i> <i>eSSS·E</i> <i>L·NE</i> <i>M·NE</i>	19 14 50 18 33 22 51 29.0 33 40	20 ^s . N: 25 μ . E: 25 μ . $\Delta = 58^\circ$. Aleutian Islands.
30	<i>L·NE</i>	2 06	
30	<i>L·NE</i>	9 54	
30	<i>e·Z'</i> <i>e·Z'</i>	13 17 36 13 18 55	
30	<i>L·NE</i>	14 50	

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May

1 *eP·Z'Z* 10^b06^m29^s
ePP·ZN 09 07
eS·NE 15 35
ePS·N 15 53
eSKS·NE 16 35
eSS·E 20 17
L·NE 30
 $\Delta = 70^\circ$. Japan.

1 *iP·Z* 14 09 57
ePP·ZN 12 22
iS·E 19 05
eSS·E 23.7
L·NE 32
 Repetition.

3 *iP·Z'* 17 18 45
eS·E 27 58
L·NE 43
 $\Delta = 70^\circ$. Japan.

4 *e(P)·Z'* 0 28 32
e·N 38 24
(L)·NE 1 01
 $\Delta = 72^\circ$. Assam.

6 *iP·Z'* 0 15 43
eS·E 24 46
L·NE 43
 $\Delta = 70^\circ$. Japan.

6 *eP·Z'* 11 46 59
eS·NE 52 38
e·NE 55 25
L·NE 57
 $\Delta = 36^\circ$. Mid Atlantic ridge.

7 *e·Z'* 6 57 41

8 *L·NE* 21 57

11 *eP·Z'* 11 16 12
i·Z' 16 15
 $\Delta = 80^\circ$. Equador.

11 *eP·Z'* 16 00 33
 $\Delta = 73^\circ$. Japan.

12 *e·Z'* 20 01 28

13 *eP·Z'* 3 39 46
eS·NE 47 45
L·NE 57
 $\Delta = 58^\circ$. Lesser Antilles.

13 *e·Z'* 5 26 41

May

14 *iP·Z'Z* 6 15 42
ipP·Z'Z 17 28
iS·NE 25 13
 $\Delta = 82^\circ$. $h = 500$ km. Bonin Islands.

14 *L·NE* 13 53

14 *iP·Z'Z* 20 11 02
L·E 42
 $\Delta = 68^\circ$. West of Lower California.

17 *eP·Z'Z* 15 03 00 $Z: 1 \mu$.
i·Z' 03 04
i·Z 03 12 $6^s, 6 \mu$.
ePP·Z 06 28
e·N 12 52
e·E 12 58
iSKS·NE 13 31
iS·ZNE 14 04 $10^s, N: 10 \mu, E: 13 \mu$.
iPS·ZE 15 14 $8^s, Z: 12 \mu, E: 15 \mu$.
eSS·E 19 56
eSSS·N 24 33
L·E 35
M·NE 49 $20^s, N: 35 \mu, E: 65 \mu$.
 $\Delta = 92^\circ$. Nicobar Islands.

19 *iPn·Z'Z* 3 12 25
iPg·N 12 45
i(Sg)·ZE 13 45
 $\Delta = 4\frac{1}{2}^\circ$. Iceland.

21 *iP·Z'* 1 42 25
i·Z' 42 32
 $\Delta = 80^\circ$. Bonin Islands.

21 *eP·Z'* 3 42 18
i·Z' 42 20
eS·E 52 24
 $\Delta = 80^\circ$. Bonin Islands.

22 *iP·Z'* 23 58 07
ipP·Z' 58 32
 $\Delta = 89^\circ$. $h = 100$ km. Peru.

23 *eP·Z'* 0 54 45
eS·Z' 55 05
L·NE 55 13
 About 200 km west of Scoresbysund.

23 *L·NE* 18 48

25 *iP·Z'* 18 31 16
 $\Delta = 62^\circ$. Kurile Islands.

May

26 *iPP·Z* 16^b43^m23^s
iPS·N 53 20
eSS·NE 59 50
eSSS·N 17 05.0
 $\Delta = 120^\circ$. Solomon Islands.

28 *eP·Z'* 6 34 31
ePP·NE 38 53
iSKS·NE 44 55
i·NE 45 43
iS·NE 46 04
i·NE 47 53
 $\Delta = 106^\circ$. $h = 200$ km. Argentina.

29 *L·NE* 11 37

29 *eP·Z'* 13 40 08
eS·NE 47 29
L·NE 57
 $\Delta = 49^\circ$. Kodiak Island.

29 *ePP·ZNE* 15 53 34
ePS·ZNE 16 03 09
eL·NE 30
 $\Delta = 113^\circ$. Java.

29 *e(S)·N* 21 19.2
L·NE 28
 $\Delta = 49^\circ$. Kodiak Island.

30 *L·NE* 9 58

30 *iP·Z'* 12 43 20
ipP·Z' 45 21
iPP·N 46 48
e·N 47 45
esPP·N 49 36
iSKS·NE 52 50 $10^s, N: 55 \mu, E: 60 \mu$.
iS·NE 53 02
eSP·NE 54 03 $15^s, N: 20 \mu$.
esSP·N 57 12
iSS·E 58 51
 $\Delta = 85^\circ$. $h = 600$ km. Volcano Islands.

30 *i·Z'* 13 01 13

30 *e·Z'* 13 11 48

30 *ePP·Z'Z* 23 46 21
e(SKKS)·NE 53 00
ePS·ZNE 55 35
 $\Delta = 112^\circ$. New Guinea.

31 *ePP·Z* 9 52 28
e·N 59 08
 $\Delta = 135^\circ$. Kermadec Islands.

May

31 *iP·Z'Z* 18^b09^m44^s
 $\Delta = 83^\circ$. Galapagos Islands.

June

2 *iP·Z* 0 28 48
eS·NE 36 47
eScS·N 38 22
eSS·NE 40 52
L·NE 48
M·NE 55 $20^s, N: 30 \mu, E: 30 \mu$.
 $\Delta = 58^\circ$. Aleutian Islands.

2 *eP·Z* 2 12 00
L·NE 30
 Repetition.

2 *iP·Z'* 23 42 04
L·NE 55
 $\Delta = 39^\circ$. Turkey.

4 *eP·Z* 17 02 26
ePP·Z 04 52
eS·NE 11 29
eSS·NE 16 07
L·NE 23
 $\Delta = 69^\circ$. Japan.

5 *iP·Z'Z* 2 03 09
ePPP·NE 06 40
eS·NE 11 01
L·NE 25
 $\Delta = 57^\circ$. Aleutian Islands.

5 *i·Z'* 2 08 01

5 *iP·Z'Z* 6 23 41
eS·NE 33 54
eSS·NE 39.5
 $\Delta = 82^\circ$. Formosa.

5 *iP·Z'Z* 15 03 23
ePP 04 49
eS·NE 09 11
eSS·NE 11.6
L·NE 15
 $\Delta = 37^\circ$. Algeria.

7 *eP·Z'Z* 1 00 38
eS·NE 10 14
L·NE 27
 $\Delta = 75^\circ$. Sikang province, China.

7 *eP·Z'* 7 33 42
eS·N 34 36
L·NE 35.2
 $\Delta = 6^\circ$. Iceland.

Scoresbysund 1955

June		June	
8	<i>iP·Z'</i> 13 ^b 57 ^m 16 ^s $\Delta = 58^\circ$. Aleutian Islands.	18	<i>eP·Z'</i> 16 ^b 19 ^m 50 ^s <i>L·NE</i> 49 $\Delta = 85^\circ$. Formosa.
10	<i>L·NE</i> 1 40	19	<i>L·NE</i> 21 52
10	<i>i·Z'</i> 18 52 35	20	<i>eP·Z'</i> 12 17 16 <i>i·Z'Z</i> 17 19 <i>eS·NE</i> 25 13 <i>L·E</i> 35 <i>M·E</i> 40 20 ^s , 35 μ . <i>M·N</i> 44 20 ^s , 45 μ . $\Delta = 57^\circ$. Aleutian Islands.
10	<i>i·Z'</i> 18 56 33	21	<i>iP·Z'Z</i> 11 00 55 <i>ePPP·ZN</i> 04 28 <i>eS·NE</i> 08 52 <i>L·NE</i> 24 $\Delta = 58^\circ$. Kamchatka.
10	<i>e·Z'</i> 18 58 11	23	<i>iP·Z'</i> 22 24 10 <i>L·NE</i> 45 $\Delta = 65^\circ$. Kurile Islands.
10	<i>i·Z'</i> 19 00 32	26	<i>i·Z'</i> 14 04 51
11	<i>e·Z'</i> 16 59 10	26	<i>i·Z'</i> 15 42 37
11	<i>iPKP·Z'</i> 21 30 10 $\Delta = 124^\circ$, $h = 650$ km. Fiji Islands.	26	<i>e·Z'</i> 15 43 26
11	<i>iP·Z'Z</i> 22 32 33 <i>epP·Z'</i> 34 33 <i>eSP·ZNE</i> 45 00 $\Delta = 102^\circ$, $h = 600$ km. Argentina.	26	<i>i·Z'</i> 18 13 02
12	<i>eP·Z'Z</i> 20 41 02 <i>eS·NE</i> 49 19 <i>eScS·E</i> 50 46 <i>L·E</i> 21 00 $\Delta = 61^\circ$. Kurile Islands.	27	<i>eP·Z'Z</i> 10 24 41 <i>iS·NE</i> 33 14 <i>eSSS·NE</i> 40.3 <i>L·N</i> 45 $\Delta = 64^\circ$. Tibet-India border.
14	<i>eP·Z'</i> 6 22 41 <i>iS·N</i> 31 57 <i>eScS·N</i> 32 47 <i>eSS·N</i> 36 32 <i>eSSS·NE</i> 39.7 <i>L·N</i> 42 <i>M·NE</i> 49 20 ^s , $N: 90 \mu$, $E: 35 \mu$. $\Delta = 71^\circ$. Mexico.	28	<i>eP·Z'Z</i> 4 32 42 <i>eS·NE</i> 36 22 <i>L·N</i> 38.1 $\Delta = 20^\circ$. North Polar basin.
14	<i>eP·Z'</i> 17 33 28 $\Delta = 73^\circ$. Japan.	29	<i>L·E</i> 4 28
16	<i>eP·Z'</i> 12 48 14 <i>i·Z'Z</i> 48 17 <i>iPP·Z'</i> 50 44 <i>L·NE</i> 13 10 $\Delta = 68^\circ$. Lower California.	29	<i>iP·Z'</i> 5 07 01 <i>eS·E</i> 16 59 <i>L·NE</i> 35 $\Delta = 79^\circ$. Ryukyu Islands.
16	<i>L·NE</i> 15 43.5 <i>F·NE</i> 50		
17	<i>eP·Z'Z</i> 8 19 06 <i>e·NE</i> 26 08 <i>eSKS·N</i> 29 28 <i>L·NE</i> 47 $\Delta = 85^\circ$. Formosa.		

Scoresbysund 1955

July		July	
1	<i>e·Z'</i> 1 ^b 21 ^m 54 ^s	11	<i>eP·Z'Z</i> 20 ^b 32 ^m 43 ^s <i>eS·NE</i> 42 13 <i>eSS·E</i> 46 51 <i>L·NE</i> 55 $\Delta = 73^\circ$. North Atlantic Ocean.
3	<i>iP·Z'Z</i> 14 36 22 <i>i·Z'</i> 36 32 <i>i·Z'Z</i> 36 42 <i>ePP·Z</i> 38 45 <i>ePPP·ZNE</i> 39 52 <i>eS·NE</i> 44 19 <i>eScS·E</i> 46 15 <i>L·NE</i> 58 $\Delta = 58^\circ$. Aleutian Islands.	12	<i>L·NE</i> 17 48
4	<i>iP·Z'Z</i> 14 29 38 <i>i·Z'Z</i> 29 56 <i>iPP·N</i> 31 51 <i>ePPP·NE</i> 33 01 <i>eS·NE</i> 37 28 <i>eSS·E</i> 41 36 <i>L·N</i> 49 $\Delta = 58^\circ$. Aleutian Islands.	16	(<i>iP·Z'Z</i>) 7 15 32 in the time break. <i>ePP·Z</i> 16 40 <i>ePPP·NE</i> 17 03 <i>iS·NE</i> 21 18 <i>eSS·NE</i> 24 10 <i>L·E</i> 27.8 <i>M·NE</i> 34 10 ^s , $N: 22 \mu$, $E: 35 \mu$. $\Delta = 42^\circ$. Dodecanese Islands.
6	<i>iP·ZNE</i> 2 04 16 <i>iPeP·Z</i> 05 08 <i>iS·NE</i> 12 15 <i>i·E</i> 12 38 <i>L·NE</i> 23 $\Delta = 58^\circ$. Kamchatka.	17	<i>eP·Z</i> 22 07 44 <i>eS·NE</i> 15 22 <i>L·NE</i> 24 $\Delta = 54^\circ$. Aleutian Islands.
6	<i>L·NE</i> 10 56	18	<i>L·NE</i> 2 45
7	<i>e·Z'</i> 2 46 42 <i>e·NE</i> 49 16 <i>F</i> 59	18	<i>L·NE</i> 10 47
7	<i>L·NE</i> 5 32	19	<i>e(SS)·NE</i> 9 08.3 <i>L(M)·NE</i> 18 $\Delta = 53^\circ$. Uzbekistan, U.S.S.R.
7	<i>L·E</i> 9 51	19	<i>L·N</i> 16 43.6
8	<i>iPKP·Z'</i> 18 57 16 <i>epPKP·Z'</i> 59 26 <i>eSKP·Z'Z</i> 59 46 <i>ePKS·NE</i> 19 00 43 <i>i·NE</i> 16 08 $\Delta = 129^\circ$, $h = 600$ km. Fiji Islands.	20	<i>eP·Z'Z</i> 0 01 12 <i>e·Z'Z</i> 01 20 <i>eS·NE</i> 08 16 <i>eScS·E</i> 11 06 <i>e·N</i> 12 25 <i>L·NE</i> 18 $\Delta = 49^\circ$. Kodiak Island.
10	<i>eS·NE</i> 0 06 54 <i>eSS·NE</i> 09 37 <i>L·NE</i> 12.6 $\Delta = 38^\circ$. Greece.	20	<i>L·NE</i> 8 03
10	<i>ePP·N</i> 14 42 02 <i>ePS·NE</i> 52 07 <i>eSS·E</i> 59 07 <i>e·N</i> 15 01 45 <i>L·NE</i> 20 $\Delta = 127^\circ$. Tonga Islands.	20	<i>L·NE</i> 21 36
		21	<i>iP·Z'Z</i> 11 58 45 <i>ipP·Z'Z</i> 59 11 <i>iSKS·NE</i> 12 09 10 <i>iS·NE</i> 09 45 <i>is·NE</i> 10 30 $\Delta = 93^\circ$, $h = 100$ km. Southern Peru.
		23	<i>L·NE</i> 11 12
		23	<i>ePP·ZN</i> 13 08 00 <i>ePS·NE</i> 17.8 $\Delta = 114^\circ$. Banda Sea.

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July

23 *eSS·E* 14^b11^m40^s
L·NE 14
 $\Delta = 38^\circ$. North Atlantic Ocean.

23 *iSKS·NE* 14 21 15
L·NE 44
 $\Delta = 97^\circ$. Philippine Islands.

24 *iP·Z'* 11 13 41
ePP·N 16 24
iS·NE 23 09
iPS·NE 23 31
L·NE 38
 $\Delta = 73^\circ$. Japan.

24 *iP·Z'* 16 32 31
eS·NE 42.8
eSS·NE 48 01
e·N 50 29
L·NE 59
 $\Delta = 82^\circ$. Formosa.

26 *eP·NE* 4 13.1 No Z-record.
ePP·NE 15.0
eS·NE 20 03
L·NE 28.5
 $\Delta = 48^\circ$. Kodiak Island.

27 *eP·Z'Z* 1 32 32
eS·NE 42 17
L·NE 56.5
 $\Delta = 75^\circ$. Japan.

27 *iP·Z'Z* 18 27 56
ePP·Z 29 52
eS·E 34 52
i·NE 35 10
eSS·E 38 22
L·NE 43
 $\Delta = 48^\circ$. Kodiak Island.

29 *L·NE* 22 26

August

1 *L·N* 4 18

3 (*L*)·*N* 21 37.9 period abt. 6^s.

4 *iP·Z'* 6 51 44
iS·E 7 00 47
L·NE 17
 $\Delta = 69^\circ$. Tibet.

4 *e·Z'* 8 15.2
e·Z' 15 31
i·Z' 15 37
L·Z' 15 43
 Near shock.

August

5 *L·NE* 3^b46^m

✓6 *iPKP·Z'Z* 8 49 56 Z: 5^s, 3 μ .
ipPKP·Z'Z 51 25
isPKP·Z'Z 52 02 Z: 6^s, 4 μ .
iSKP·Z'ZNE 52 43 Z: 6^s, 14 μ .
ipPP·Z'Z 53 21
ipSKP·NE 54 44
iSKS·NE 56 32
ipSKS·NE 58 27
iSS·NE 9 08 50
isSS·NE 11 18
 $\Delta = 129^\circ$. $h = 350$ km. Tonga Islands.

8 *L·NE* 3 53

8 *L·NE* 11 06

12 (*L*)·*NE* 20 08.4
 Near shock?

13 (*L*)·*NE* 5 18.5
 Near shock?

14 *ePKS·NE* 17 06 45
L·NE 50
 $\Delta = 141^\circ$. Kermadec Islands.

16 *L·NE* 4 51

16 *eP·Z'* 7 17 42 dubious.
L·NE 19.2
 North-east of Jan Mayen.

16 *iPKP·Z'Z* 12 05 24
ipPKP·Z' 06 23
ePP·ZN 06 31
ipPP·ZN 07 14
i·Z' 08 35
iSKS·N 12 01
ipSKS·N 13 13
i·E 14 03
eSP·N 15 53
i·N 17 07
iSS·E 22 28
 $\Delta = 116^\circ$. $h = 200$ km. Solomon Islands.

16 *L·NE* 19 36

18 (*L*)·*NE* 1 48 49
 Near shock.

21 *L·NE* 16 44

August

21 *eP·Z* 17^b48^m45^s
ePP·ZNE 53 17
ePPP·NE 55 45
iSKS·N 59 13
e·N 59 51
iSKKS·NE 18 00 17
e·E 00 57
iPS·NE 02 44
eSS·N 08.3
L·NE 26
 $\Delta = 112^\circ$. New Guinea.

23 *iP·Z'* 15 42 14
eS·NE 49 56
iL·E 16 02.4
 $\Delta = 55^\circ$. Off coast of Oregon.

25 *iP·Z'Z* 22 22 32
L·NE 40
 $\Delta = 57^\circ$. Aleutian Islands.

26 *L·NE* 9 46

27 *L·NE* 7 30

28 *L·NE* 14 03

✓28 *iP·Z'Z* 20 24 41
iPcP·Z'Z 24 58
ePP·ZE 27 21
ePPP·E 29 03
eS·NE 33 49
ePS·NE 34 14
eSS·E 38 49
L·NE 48
M·NE 54 N: 20^s, 45 μ . E: 24^s, 75 μ .
 $\Delta = 70^\circ$. Guatemala.

29 *L·NE* 1 47

29 *L·NE* 8 23

29 *L·NE* 16 01

September

1 *L·NE* 17 58

1 *eS·NE* 22 56 41
e·E 23 03.7
 $\Delta = 57^\circ$. $h = 400$ km. Sea of Okhotsk.

3 *L·NE* 5 52

✓3 *iP·ZE* 12 47 30
ePP·NE 50 10
eS·NE 56 22
isS 57 00
L·NE 13 10.4
M·NE 21 20^s. N: 20 μ . E: 35 μ .
 $\Delta = 70^\circ$. $h = 100$ km. Guatemala.

September

3 *iSKS·NE* 16^b47^m15^s
eSKKS·N 48 02
iPS·NE 50 18 (eZ).
iPPS·N 51 14 (eZE).
eSS·NE 56.0
 $\Delta = 107^\circ$. Celebes.

7 *ePP·ZE* 3 36 24
eSKS·E 43.1
eS·NE 43 44
eSS·NE 49 42
L·NE 4 08
 $\Delta = 92^\circ$. Indian Ocean.

8 *ePKP·Z* 2 22 38
ePP·ZN 24 58
ePKS·N 25 54
eSS·E 42 02
eSSS·E 46.6
L·NE 3.1
 $\Delta = 130^\circ$. Sandwich Group.

8 *ePS·N* 3 57 05
ePPS·N 58 33
L·NE 4.3
 $\Delta = 116^\circ$. Solomon Islands.

9 *L·NE* 10 40

11 *iPS·N* 18 24 12
L·NE 54
 $\Delta = 116^\circ$. Solomon Islands.

11 *iPS·N* 18 34 03
 Repetition. In previous quake.

12 *iP·Z'* 6 17 57
ePP·Z'ZE 19 59
iS·NE 24 48
eSS·N 28.3
 $\Delta = 48^\circ$. Nile delta area.

13 *L·NE* 2.4

15 *ePP·Z'Z* 12 49 56
L·NE 13.5
 $\Delta = 113^\circ$. New Guinea.

22 *iP·Z'* 3 37 20
iSKS·NE 47 47
eSS·E 53 08
L·NE 4 08
 $\Delta = 83^\circ$. Formosa.

Scoresbysund 1955

Scoresbysund 1955

September

23 *iP·Z'* 15^h18^m06^s
ePP·E 20 54
iS·NE 27 46
ePS·E 28 07
eSS·NE 32 31
L·NE 42.5
M·NE 53 20^s. N: 22 μ . E: 26 μ .
 $\Delta = 75^\circ$. Yunnan province, China.

24 *L·E* 11 08

26 *iP·Z'* 8 39 13
ipP·Z' 40 01
 $\Delta = 69^\circ$. $h = 200$ km. Mexico.

30 *i·Z'* 9 06 20
i·Z' 06 25
i·Z' 06 31
 Near shock.

October

4 *i·Z'* 18 41 23
e·Z' 41 28
i·Z' 41 42
 Near shock.

5 *L·N* 9 24

6 *i·Z'* 10 26 34
i·Z' 26 39
 Near shock.

6 *L·NE* 11 27

8 *i·Z'* 5 18 26
 Near shock.

9 *e·N* 18 09 44
L·N 35
 $\Delta = 104^\circ$. New Britain.

9 *eP·Z'* 23 23 42
iPPP·ZN 27 02
eS·N 31 47
L·N 44
 $\Delta = 59^\circ$. Aleutian Islands.

10 *ePKP·Z'Z* 9 16 33
ePP·ZN 17 23
iSKS·N 23 15
iSKKS·N 24 25
iPS·N 27 10
eSS·N 33 10
eSSS·N 38.0
L·N 51
M·N 55 30^s, 90 μ .
 $\Delta = 115^\circ$. New Britain.

October

13 *iPKP·Z'* 9^h45^m35^s
ePP·Z' 46 54
ePS·N 57 05
L·NE 10 24
 $\Delta = 120^\circ$. Solomon Islands.

13 *L·NE* 22 29

14 *L·NE* 9 30

15 *e·Z'* 18 53 01

19 *iP·Z'Z* 10 04 57
iPeP·Z' 05 42
iS·NE 13 10
L·NE 25
 $\Delta = 60^\circ$. Kurile Islands.

21 *iP·Z'* 4 45 28
eSKS·NE 56 03
iS·N 56 43
iSS·N 5 03 08
 $\Delta = 95^\circ$. Sumatra.

21 *iPKP·Z'* 19 20 38
i·Z 23 01
i·Z' 23 13
i·N 24 04
e·N 29 14
e·N 34 49
 $\Delta = 129^\circ$. $h = 650$ km. Fiji Islands.

21 *L·N* 23 59

24 *L·NE* 4 43

25 *L·NE* 17.2

28 *i·Z'* 11 49 50
e·Z' 53 30

28 *e·Z'* 21 58 54
e·Z' 59 35
 Near shock.

30 *e·Z'* 11 53 58
e·Z' 57 27
 Possibly two near shocks.

31 *L·NE* 1 35

November

4 *i·Z'* 17 36 56
i·Z' 37 03 1^s. Trace ampl.: 5 mm.
 Near shock.

November

8 *ePn·Z'* 23^h19^m32^s
ePg·Z' 20 03
L·NE 21.5
 $\Delta = 6^\circ$.

10 *iPP·NE* 2 04 29
i·E 12 21
iPS·NE 14 26
iSS·NE 21 02
isSS·N 22 00
i·NE 24 06
 $\Delta = 122^\circ$. $h = 100$ km. Samoa Islands.

15 *eP·Z'* 10 15 45
eS·NE 22 59
eSS·NE 26 57
L·NE 31
 $\Delta = 51^\circ$. Alaska Peninsula.

16 *e·Z'* 12 52 39

16 *e·Z'* 17 25 59

16 *iP·Z'* 23 57 22
L·NE 62.5
 $\Delta = 14^\circ$. Arctic Ocean.

17 *L·NE* 7 47

18 *e·Z'* 5 52 52

21 *L·NE* 20 54

21 *ePKP·Z'* 21 23 34
iPKP·Z' 23 36
 $\Delta = 146^\circ$. New Zealand.

22 *L·NE* 4 28

23 *iP·Z'* 6 39 28
iS·N 47 36
L·NE 57
M·NE 7 02 26^s. N: 40 μ . E: 40 μ .
 Masked by strong microseisms.
 $\Delta = 59^\circ$. Kamchatka.

23 *e·Z'* 7 08 48

September 1955.

November

24 *e·Z'* 5^h33^m27^s
e·Z' 33 39
e·Z' 33 56
 Near shock.

24 *e·Z'* 11 41 43

25 *i·Z'* 16 48 14
i·Z' 48 37
 Near shock.

27 *iP·Z'* 19 43 08
 $\Delta = 83^\circ$. Formosa.

30 *i·Z'* 15 31 32

December

4 *iP·Z'* 14 11 19
 $\Delta = 52^\circ$. Central Iran.

7 *iP·Z'* 15 15 40
iSKS·NE 25 59
L·NE 47
 Masked by strong microseisms.
 $\Delta = 83^\circ$. Bonin Islands.

7 *iP·Z'* 23 05 49
 $\Delta = 82^\circ$. Ryukyu Islands.

14 *eP·Z'* 11 03 54
 Very strong microseisms.
 $\Delta = 77^\circ$. Pakistan.

16 *e·Z'* 4 51 57

17 *eP·Z'* 6 17 40
 $\Delta = 60^\circ$. California.

17 *iP·Z'* 8 15 56
 $\Delta = 53^\circ$. Iran.

19 *L·NE* 4 16

22 *i·Z'* 9 39 37

29 *iP·Z'* 8 36 41
 $\Delta = 69^\circ$. Tibet.

HENRY JENSEN