No. 29 Jan.—Dec. 1955

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

SCORESBYSUND

$\varphi = 70°29'$ N. $\lambda = 21°57'$ W. $h = 69$ m.

Lithologic foundation: gneiss

Instruments

Galitzin-Wilip. *N* and *E*. $T_p = T_g = 12$ sec, $\mu^2 = 0$, $\frac{Ak}{\pi l} = 300$ or V_{max} abt. 1000.

Galitzin-Wilip. *Z*. $T_p = 9$ sec, $T_g = 10$ sec, $\mu^2 = 0$, $\frac{Ak}{\pi l} = 200$ or V_{max} abt. 600.

Grenet *Z'*. $T_p = 1$ sec, $T_g = {}^1/_4$ 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.

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January

3 *iP·Z′* 1h14m31s
L·E 29
Δ = 39°. Greece.

3 *eP·Z′Z* 18 55 05 in the time break.
eSKS·E 19 05 45
eS·NE 06 13
ePS·N 07 28
eSS·N 12.4
L·NE 32
Δ = 92°. Peru.

5 *iPKP1·Z′ZNE* 1 10 18
iPKP2·ZN 11 02
ePKS·N 13 54
iPP·Z 14 22
iPPPP·E 20 13
i·E 32 44
eSS·E 34 54
eSSS·E 41 14
eSS2·E 41 52
L·NE 2 06
M·E 20 35s, 30 μ.
Δ = 160°. New Zealand.

5 *eP·Z′* 15 37 54
L·NE 57
Δ = 55°. Kamchatka.

5 *ePKP·Z′* 18 07 41
ePP·N 09 29
e(PKS)·N 11 04
ePS·N 19 30
eSS·NE 26.1
L·NE 49
M·NE 58 22s, 14 μ.
Δ = 125°. New Hebrides.

6 *ePKP·Z′* 0 01 09
ePP·NE 03 09
e(PKS)·N 04 19
i·Z 06 15
eSKS·E 08 21
ePS·NE 13 12
ePPS·E 14 44
i·NE 15 50
eSS·NE 19 49
eSSS·E 24 47
L·NE 45
Δ = 125°. New Hebrides.

6 *ePKP·Z′* 2 41 42
ePP·Z 43 31
e(PKS)·N 45 04
ePS·N 53 36
Δ = 125°. New Hebrides.

January

6 *ePKP·Z′* 10h07m20s
L·NE 51
Δ = 125°. New Hebrides.

7 *ePPS·E* 10 13 44
eSS·E 18 37
e·E 19 31
Δ = 108°. Indian Ocean.

8 *ePKP·Z′* 7 52.5
ePP·NE 54 14
ePS·N 8 04 00
e·Z 10 19
L·NE 32
Δ = 120°. Santa Cruz Islands.

8 *iP·Z′* 8 00 26
Δ = 39°. Greece.

8 *iP·Z′* 9 12 24
ipP·Z′ 12 44
Δ = 77°. *h* = 100 km. Japan.

8 *eP·Z′* 10 11 56
Δ = 93°. Galapagos Islands.

9 *eP·Z′* 0 37 22
Δ = 55°. Kamchatka.

10 *iPKP·Z′* 22 01 57
Δ = 122°. *h* = 100 km. Samoa Islands.

11 *iP·Z′* 14 00 27
iPcP·Z′ 00 36
Δ = 80°. Ryukyu Islands.

13 *ePKP·Z′* 0 33 30
Δ = 128°. Sandwich Islands.

13 *iP·Z′* 2 13 12
iS·NE 20 47
eScS·NE 22 59
L·NE 30
M·ZNE 35 *Z*: 25s, 70μ. *N*: 24s, 70μ. *E*: 20s, 100μ.
Δ = 54°. Aleutian Islands.

13 *iP·Z′* 2 45 14
Repetition.

13 *iP·Z′* 2 54 14
Repetition.

14 *eP·Z′* 7 56 17
Δ = 75°. Assam-Burma border.

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January

15 *eP·Z′* 16h05m16s
eS·Z′ 06 32
i·Z′ 06 36
i·Z′ 06 46
M·E 07 10s, 5 μ.
Δ = 6½°. Iceland.

15 *ePn·Z′* 16 44 40
iP·Z′* 44 52
iSn·Z′ 46 00
iS·Z′* 46 12
M·E 47 10s, 5 μ.
Δ = 6½°. Iceland.

15 *eS·Z′* 23 55 10
Iceland.

16 *eS·Z′* 1 45 22
Iceland.

17 *eP·Z′* 2 33 17
Δ = 73°. Japan.

25 *iP·Z′* 14 52 47
eS·Z′ 54 38
Strong microseisms.
Δ = 11°. West of Svalbard.

28 *eP·Z′* 7 50 09
Δ = 44°. Crete.

28 *eP·Z′* 17 13 12
eSSS·NE 28.6
L·NE 35
Strong microseisms.
Δ = 63°. Tibet.

29 *eP·Z′* 17 13 35
e·Z′ 13 49
L·NE 35
Δ = 58°. Kamchatka.

31 *eP·Z′* 2 54 52
Δ = 63°. Kurile Islands.

31 *iP·Z′* 5 15 48
i·Z′ 15 53
Δ = 87°. Brazil.

31 *e·Z′* 9 41 30
e·Z′ 42 03
Near shock.

31 *e·Z′* 9 46 39
Thereafter many overlapping near shocks until about 10h37m.

January

31 *e·Z′* 10h50m37s
e·Z′ 51 23
Thereafter several overlapping near shocks until about 11h30m.

31 *e·Z′* 11 32 16
Near shock.

31 *e·Z′* 11 49 19
e·Z′ 49 49
Near shock.

31 *e·Z′* 11 55 00
e·Z′ 55 49
Near shock.

31 *e·Z′* 12 02 27
e·Z′ 03 00
Near shock.

31 *e·Z′* 12 16 52
e·Z′ 17 44
Near shock.

31 *e·Z′* 12 29 45
e·Z′ 30 30
Near shock.

31 *e·Z′* 12 54.6

31 *e·Z′* 13 05 14
e·Z′ 05 47
Near shock.

31 *e·Z′* 13 22 26

31 *e·Z′* 13 44.3

31 *e·Z′* 14 01 21

31 *e·Z′* 14 05 48

31 *e·Z′* 14 19 41
e·Z′ 20 15
Near shock.

31 *e·Z′* 14 29 31
e·Z′ 29 58
Near shock.
The shocks between 9h41m and 14h30m possibly minor quakes from Jan Mayen.

31 *i·Z′* 16 12 38
Δ = 63°. Kurile Islands.

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February			
1	$e \cdot Z'$	0h10m12s	
	$e \cdot Z'$	10 35	
	Near shock.		
1	$e \cdot Z'$	15 18 58	
	$e \cdot Z'$	19 28	
	Near shock.		
1	$e \cdot Z'$	19 27 03	
	$e \cdot Z'$	27 27	
	Near shock.		
2	$e \cdot Z'$	8 40 31	
	$i \cdot Z'$	41 00	
	Near shock.		
2	$e \cdot Z'$	11 36 13	
2	$e \cdot Z'$	15 32 56	
3	$e \cdot Z'$	1 40 19	
3	$i \cdot Z'$	12 50 54	
	$\Delta = 54°$. Off coast of Oregon.		
4	$e \cdot Z'$	5 46 36	
	$e \cdot Z'$	47 25	
4	$e \cdot Z'$	8 56 41	
	$e \cdot Z'$	57 08	
	Near shock.		
4	$e \cdot Z'$	9 05 15	
	$e \cdot Z'$	05 51	
	$\Delta = 2°$. Jan Mayen.		
4	$e \cdot Z'$	9 29 10	
4	$e \cdot Z'$	18 54 51	
5	$e \cdot Z'$	20 52 31	
	$\Delta = 63°$. Kurile Islands.		
6	$e \cdot Z'$	0 56 11	
	$e \cdot N$	56 36	
	$\Delta = 2°$. Jan Mayen.		
6	$i \cdot Z'$	2 28 31	
	$i \cdot N$	28 58	
	$\Delta = 2°$. Jan Mayen.		
6	$e \cdot Z'$	2 42 37	
6	$e \cdot Z'$	3 41 48	
6	$e \cdot Z'$	5 50 42	

February			
6	$e \cdot Z'$	6h45m40s	
6	$e \cdot Z'$	7 07 03	
	$i \cdot Z'$	07 27	
	$i \cdot Z'$	07 42	
6	$e \cdot Z'$	10 14 48	
6	$iPKP \cdot Z'$	10 24 53	
	$\Delta = 128°$. Sandwich Islands.		
6	$e \cdot Z'$	14 02 40	
6	$e \cdot Z'$	17 02 36	
6	$e \cdot Z'$	17 58 41	
7	$e \cdot Z'$	20 08 22	
9	$e \cdot Z'$	8 17 43	
10	$iP \cdot Z'$	0 13 24	
	$L \cdot NE$	35	
	$\Delta = 60°$. Kurile Islands.		
12	$e \cdot Z'$	5 54 49	
	$e \cdot Z'$	55 21	
	Jan Mayen?		
15	$ePS \cdot E$	6 52.2	
	$eSS \cdot E$	58.6	
	$L \cdot NE$	7 22	
	$\Delta = 126°$. New Hebrides.		
15	$L \cdot NE$	19 43	
18	$iP \cdot Z'$	22 58 54	
	$eS \cdot E$	23 07 18	
	$L \cdot NE$	24	
	$\Delta = 62°$. Pakistan.		
21	$L \cdot E$	14 55.8	
21	$e \cdot Z'$	15 46 13	
21	$eP \cdot Z'$	23 20 57	
	$L \cdot N$	29	
	$\Delta = 30°$. Azores.		
23	$iPKP \cdot Z'$	11 59 02	
	$\Delta = 126°$. $h = 600$ km. Fiji Islands.		
23	$L \cdot E$	19 34	
23	$eP \cdot Z'$	20 13 29	
	$\Delta = 77°$. Japan.		

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February

27 $eP \cdot Z'$ $7^h48^m14^s$
$\Delta = 5°$. NE of Iceland.

27 $eP \cdot Z'$ 8 29 47
$\Delta = 5°$. NE of Iceland.

27 $eP \cdot Z'$ 16 47 35
$\Delta = 65°$. Mid Atlantic ridge.

27 $iPKP \cdot Z'$ 21 02 43
$iPP \cdot Z'NE$ 05 23
$iPKS \cdot NE$ 06 25
$L \cdot NE$ 48
$M \cdot NE$ 55 25^s. N: 80 μ. E: 100 μ.
$\Delta = 135°$. Kermadec Islands.

28 $e \cdot Z'$ 4 00 18

March

1 $eP \cdot Z'$ 0 34 53
$\Delta = 5°$. Greenland Sea.

1 $iP \cdot Z'$ 1 59 19
$\Delta = 93°$. Brazil.

1 $(i)P \cdot Z'$ 4 50 07 in the time break.
$iPP \cdot Z'$ 51 28
$L \cdot Z'$ 5 02 24
Strong microseisms on Galitzin.
$\Delta = 37°$. Yukon, Canada.

1 $eP \cdot Z'$ 14 09 33
Repetition.

1 $e \cdot Z'$ 14 20 34

1 $iP \cdot Z'$ 14 53 44
$\Delta = 79°$. Japan.

1 $i \cdot Z'$ 17 03 00

3 $iP \cdot Z'E$ 20 48 56
$i \cdot E$ 49 33
$iS \cdot E$ 49 59
$\Delta = 6°$. Jan Mayen region.

5 $eP \cdot Z'$ 19 38 31 very weak.
$e \cdot Z'$ 38 51
$\Delta = 60°$. Mid Atlantic ridge.

6 $L \cdot E$ 7 09

6 $eP \cdot Z'$ 11 09 02
$L \cdot E$ 46
$\Delta = 97°$. Philippine Islands.

March

6 $eP \cdot Z'$ $13^h47^m07^s$
$iSKS \cdot E$ 57 44
$iS \cdot E$ 58 27
$ePPS$ 14 00 24
$L \cdot E$ 22
$\Delta = 97°$. Philippine Islands.

6 $i \cdot Z'$ 18 59 38

7 $ePKP \cdot Z'$ 5 03 52
$\Delta = 127°$. New Hebrides.

9 $L \cdot NE$ 10 08

9 $iP \cdot Z'$ 17 24 01
$\Delta = 85°$. Peru.

10 $iP \cdot Z'$ 21 26 47
$\Delta = 62°$. India.

10 $L \cdot E$ 22 06

11 $iP \cdot Z'$ 21 53 34
$\Delta = 58°$. Kamchatka.

11 $P \cdot Z'$ 23 46 26 very weak
$\Delta = 98°$. Philippine Islands.

13 $e \cdot Z'$ 2 14 48

13 $e \cdot Z'$ 2 57 45

13 $eP \cdot Z'$ 4 14 04
$\Delta = 60°$. Kurile Islands.

14 $iP \cdot Z'$ 13 21 31
$i \cdot Z'$ 22 15
$iS \cdot E$ 29 06
$i \cdot E$ 30 13
$\Delta = 55°$. $h = 100$ km. Aleutian Islands.

15 $e \cdot Z'$ 0 51 03

16 $L \cdot NE$ 22 38

17 $e \cdot Z'$ 19 22 23

18 $iP \cdot Z'ZNE$ 0 16 21
$iS \cdot N$ 24 04
$i \cdot NE$ 24 26
$L \cdot NE$ 33.8
$M \cdot N$ 36 30^s, 90 μ.
$\Delta = 55°$. Kamchatka.

18 $e \cdot Z'$ 0 46 22

March

19	$e(P)\cdot Z'$	7h00m43s		
	$(L)\cdot NE$	05		
21	$iP\cdot Z'$	13 13 44		
	$\Delta = 75°$. China-Burma border.			
22	$e(P)\cdot Z'$	2 38 44		
	$\Delta = 25°$. North Atlantic Ocean.			
22	$iP\cdot Z'$	6 25 45		
	$\Delta = 75°$. Burma.			
22	$iPP\cdot Z'$	14 23 29		
	$ePPP\cdot NE$	26 03		
	$iSKS\cdot NE$	30 04		
	$i\cdot E$	33 22		
	$iSS\cdot NE$	39 15		
	$L\cdot NE$	58		
	$\Delta = 106°$. Indian Ocean.			
23	$ePKP2$	17 37 19		
	$\Delta = 165°$. Macquarie Islands.			
24	$i\cdot Z'$	12 05 43		
25	$i\cdot Z'$	23 02 14		
27	$iP\cdot Z'ZE$	14 49 54		
	$ePPP\cdot N$	53 56		
	$L\cdot E$	15 15		
	$\Delta = 69°$. Tibet.			
28	$iP\cdot Z'ZN$	1 03 30		
	$iS\cdot E$	07 14		
	$L\cdot NE$	10		
	$\Delta = 21°$. North Atlantic Ocean.			
28	$iP\cdot Z'ZNE$	9 24 14		
	$i\cdot Z'Z$	24 30		
	$e\cdot ZNE$	30 25		
	$eS\cdot E$	34 30		
	$L\cdot NE$	51		
	$\Delta = 79°$. Ryukyu Islands.			
28	$eP\cdot Z'$	14 53 26		
	$i\cdot Z'$	53 32		
	$L\cdot NE$	15 05		
	$\Delta = 40°$. Ionian Sea.			
31	$iP\cdot Z'ZNE$	18 30 45		
	$i\cdot Z'Z$	30 58		
	$iPP\cdot ZNE$	34 53		
	$iPPPP\cdot ZNE$	38 51		
	$iSKS\cdot N$	41 40		
	$eSS\cdot N$	49 08		
	$L\cdot NE$	19 03		
	$M\cdot N$	07	38s, 150 μ.	
	$\Delta = 98°$. Philippine Islands.			

March

31	$eP\cdot Z'$	21h06m19s		
	$e\cdot Z'$	06 28		
	$\Delta = 98°$. Philippine Islands.			

April

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

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April

14 *eP·Z′* 1h40m24s
i·Z′Z 40 29 *Z*: 5s, 10 μ.
iPP·ZNE 43 14
ePPP·ZNE 44 52
iS·N 49 53 12s, 25 μ.
i·NE 50 00
iSS·E 54 39
eSSS·NE 57 54
L·NE 2 02.5
M·N 07 30s, 120 μ.
Δ = 73°. Sikang province, China.

15 *iP·Z′Z* 3 50 30
ePP·ZNE 52 37
ePPP·ZNE 53 44
iS·NE 58 16
eSS·N 4 02 04
L·NE 08
M·E 12 15s, 40 μ.
Δ = 56°. Kirghizia SSR.

15 *iP·Z′* 4 23 02

17 *iP·Z′Z* 18 45 18
ipP·Z′Z 45 35
ePP·NE 47 35
ePPP·N 48 48
iS·E 53 17
i·E 53 35
i·N 53 45
eScS·NE 55 02
L·NE 19 05
M·NE 09 20s. *N*: 15 μ. *E*: 25 μ.
Δ = 58°. *h* = 60 km. Kamchatka.

17 *iP·Z′* 23 32 12
Δ = 80°. *h* = 350 km. Bonin Islands.

18 *L·E* 9 40

19 *iP·Z′ZNE* 16 54 48
iPP·E 56 17
eS·N 17 00 44
i·E 00 49
e·N 03 42
L·NE 08
Δ = 39°. Greece.

19 No recording from 20h05m to 21h51m.

20 *eSKS·NE* 2 37 33
eSKKS·NE 38 20
eS·N 38 51
ePS·E 40 41
Δ = 107°. Chile.

April

20 *eP·Z* 6h02m58s
ePP·ZNE 07 16
sSKS·NE 13 35
ePS·NE 16 36
eL·NE 37
Δ = 107°. Chile.

21 *iP·Z′Z* 7 25 49
iPP·ZNE 27 21
iS·E 31 47
eSS·NE 34 41
L·NE 40
Δ = 39°. Greece.

22 *iP·Z′Z* 16 37 58
Δ = 63°. *h* = 100 km. Kurile Islands.

23 *iP·Z′* 16 50 33
ipP·Z′ 52 19
Δ = 80°. *h* = 500 km. Bonin Islands.

24 *eP·Z′* 13 08 35
i·Z′ 08 42
i·Z′ 12 38
eS·N 16 14
L·E 28
Δ = 55°. Sinkiang province, China.

26 *L·NE* 3 37

28 *L·NE* 1 30

28 *iP·Z′* 19 14 50
ePPP·ZNE 18 33
iS·NE 22 51
eSSS·E 29.0
L·NE 33
M·NE 40 20s. *N*: 25 μ. *E*: 25 μ.
Δ = 58°. Aleutian Islands.

30 *L·NE* 2 06

30 *L·NE* 9 54

30 *e·Z′* 13 17 36
e·Z′ 13 18 55

30 *L·NE* 14 50

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May					
1	$eP \cdot Z'Z$	10h06m29s			
	$ePP \cdot ZN$		09	07	
	$eS \cdot NE$		15	35	
	$ePS \cdot N$		15	53	
	$eSKS \cdot NE$		16	35	
	$eSS \cdot E$		20	17	
	$L \cdot NE$		30		
	$\Delta = 70°$. Japan.				
1	$iP \cdot Z$	14	09	57	
	$ePP \cdot ZN$		12	22	
	$iS \cdot E$		19	05	
	$eSS \cdot E$		23.7		
	$L \cdot NE$		32		
	Repetition.				
3	$iP \cdot Z'$	17	18	45	
	$eS \cdot E$		27	58	
	$L \cdot NE$		43		
	$\Delta = 70°$. Japan.				
4	$e(P) \cdot Z'$	0	28	32	
	$e \cdot N$		38	24	
	$(L) \cdot NE$	1	01		
	$\Delta = 72°$. Assam.				
6	$iP \cdot Z'$	0	15	43	
	$eS \cdot E$		24	46	
	$L \cdot NE$		43		
	$\Delta = 70°$. Japan.				
6	$eP \cdot Z'$	11	46	59	
	$eS \cdot NE$		52	38	
	$e \cdot NE$		55	25	
	$L \cdot NE$		57		
	$\Delta = 36°$. Mid Atlantic ridge.				
7	$e \cdot Z'$	6	57	41	
8	$L \cdot NE$	21	57		
11	$eP \cdot Z'$	11	16	12	
	$i \cdot Z'$		16	15	
	$\Delta = 80°$. Equador.				
11	$eP \cdot Z'$	16	00	33	
	$\Delta = 73°$. Japan.				
12	$e \cdot Z'$	20	01	28	
13	$eP \cdot Z'$	3	39	46	
	$eS \cdot NE$		47	45	
	$L \cdot NE$		57		
	$\Delta = 58°$. Lesser Antilles.				
13	$e \cdot Z'$	5	26	41	
May					
14	$iP \cdot Z'Z$	6	15	42	
	$ipP \cdot Z'Z$		17	28	
	$iS \cdot NE$		25	13	
	$\Delta = 82°$. $h = 500$ km. Bonin Islands.				
14	$L \cdot NE$	13	53		
14	$iP \cdot Z'Z$	20	11	02	
	$L \cdot E$		42		
	$\Delta = 68°$. West of Lower California.				
17	$eP \cdot Z'Z$	15	03	00	Z: 1 μ.
	$i \cdot Z'$		03	04	
	$i \cdot Z$		03	12	6s, 6 μ.
	$ePP \cdot Z$		06	28	
	$e \cdot N$		12	52	
	$e \cdot E$		12	58	
	$iSKS \cdot NE$		13	31	
	$iS \cdot ZNE$		14	04	10s. N: 10 μ. E: 13 μ.
	$iPS \cdot ZE$		15	14	8s. Z: 12 μ. E: 15 μ.
	$eSS \cdot E$		19	56	
	$eSSS \cdot N$		24	33	
	$L \cdot E$		35		
	$M \cdot NE$		49		20s. N: 35 μ. E: 65 μ.
	$\Delta = 92°$. Nicobar Islands.				
19	$iPn \cdot Z'Z$	3	12	25	
	$iPg \cdot N$		12	45	
	$i(Sg) \cdot ZE$		13	45	
	$\Delta = 4^1/_2°$. Iceland.				
21	$iP \cdot Z'$	1	42	25	
	$i \cdot Z'$		42	32	
	$\Delta = 80°$. Bonin Islands.				
21	$eP \cdot Z'$	3	42	18	
	$i \cdot Z'$		42	20	
	$eS \cdot E$		52	24	
	$\Delta = 80°$. Bonin Islands.				
22	$iP \cdot Z'$	23	58	07	
	$ipP \cdot Z'$		58	32	
	$\Delta = 89°$. $h = 100$ km. Peru.				
23	$eP \cdot Z'$	0	54	45	
	$eS \cdot Z'$		55	05	
	$L \cdot NE$		55	13	
	About 200 km west of Scoresbysund.				
23	$L \cdot NE$	18	48		
25	$iP \cdot Z'$	18	31	16	
	$\Delta = 62°$. Kurile Islands.				

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May				
26	*iPP·Z*	16h43m23s		
	iPS·N	53 20		
	eSS·NE	59 50		
	eSSS·N	17 05.0		
	$\Delta = 120°$. 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		
	$\Delta = 106°$. $h = 200$ km. Argentina.			
29	*L·NE*	11 37		
29	*eP·Z′*	13 40 08		
	eS·NE	47 29		
	L·NE	57		
	$\Delta = 49°$. Kodiak Island.			
29	*ePP·ZNE*	15 53 34		
	ePS·ZNE	16 03 09		
	eL·NE	30		
	$\Delta = 113°$. Java.			
29	*e(S)·N*	21 19.2		
	L·NE	28		
	$\Delta = 49°$. 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	10s. *N*: 55 μ. *E*: 60 μ.	
	iS·NE	53 02		
	eSP·NE	54 03	15s. *N*: 20 μ.	
	esSP·N	57 12		
	iSS·E	58 51		
	$\Delta = 85°$. $h = 600$ 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		
	$\Delta = 112°$. New Guinea.			
31	*ePP·Z*	9 52 28		
	e·N	59 08		
	$\Delta = 135°$. Kermadec Islands.			
May				
31	*iP·Z′Z*	18h09m44s		
	$\Delta = 83°$. 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	20s. *N*: 30 μ. *E*: 30 μ.	
	$\Delta = 58°$. Aleutian Islands.			
2	*eP·Z*	2 12 00		
	L·NE	30		
	Repetition.			
2	*iP·Z′*	23 42 04		
	L·NE	55		
	$\Delta = 39°$. Turkey.			
4	*eP·Z*	17 02 26		
	ePP·Z	04 52		
	eS·NE	11 29		
	eSS·NE	16 07		
	L·NE	23		
	$\Delta = 69°$. Japan.			
5	*iP·Z′Z*	2 03 09		
	ePPP·NE	06 40		
	eS·NE	11 01		
	L·NE	25		
	$\Delta = 57°$. Aleutian Islands.			
5	*i·Z′*	2 08 01		
5	*iP·Z′Z*	6 23 41		
	eS·NE	33 54		
	eSS·NE	39.5		
	$\Delta = 82°$. Formosa.			
5	*iP·Z′Z*	15 03 23		
	ePP	04 49		
	eS·NE	09 11		
	eSS·NE	11.6		
	L·NE	15		
	$\Delta = 37°$. Algeria.			
7	*eP·Z′Z*	1 00 38		
	eS·NE	10 14		
	L·NE	27		
	$\Delta = 75°$. Sikang province, China.			
7	*eP·Z′*	7 33 42		
	eS·N	34 36		
	L·NE	35.2		
	$\Delta = 6°$. Iceland.			

June

8 *iP·Z′* 13h57m16s
$\Delta = 58°$. Aleutian Islands.

10 *L·NE* 1 40

10 *i·Z′* 18 52 35

10 *i·Z′* 18 56 33

10 *e·Z′* 18 58 11

10 *i·Z′* 19 00 32

11 *e·Z′* 16 59 10

11 *iPKP·Z′* 21 30 10
$\Delta = 124°$. $h = 650$ km. Fiji Islands.

11 *iP·Z′Z* 22 32 33
epP·Z′ 34 33
eSP·ZNE 45 00
$\Delta = 102°$. $h = 600$ km. Argentina.

12 *eP·Z′Z* 20 41 02
eS·NE 49 19
eScS·E 50 46
L·E 21 00
$\Delta = 61°$. Kurile Islands.

14 *eP·Z′* 6 22 41
iS·N 31 57
eScS·N 32 47
eSS·N 36 32
eSSS·NE 39.7
L·N 42
M·NE 49 20s. *N*: 90 μ. *E*: 35 μ.
$\Delta = 71°$. Mexico.

14 *eP·Z′* 17 33 28
$\Delta = 73°$. Japan.

16 *eP·Z′* 12 48 14
i·Z′Z 48 17
iPP·Z′ 50 44
L·NE 13 10
$\Delta = 68°$. Lower California.

16 *L·NE* 15 43.5
F·NE 50

17 *eP·Z′Z* 8 19 06
e·NE 26 08
eSKS·N 29 28
L·NE 47
$\Delta = 85°$. Formosa.

June

18 *eP·Z′* 16h19m50s
L·NE 49
$\Delta = 85°$. Formosa.

19 *L·NE* 21 52

20 *eP·Z′* 12 17 16
i·Z′Z 17 19
eS·NE 25 13
L·E 35
M·E 40 20s, 35 μ.
M·N 44 20s, 45 μ.
$\Delta = 57°$. Aleutian Islands.

21 *iP·Z′Z* 11 00 55
ePPP·ZN 04 28
eS·NE 08 52
L·NE 24
$\Delta = 58°$. Kamchatka.

23 *iP·Z′* 22 24 10
L·NE 45
$\Delta = 65°$. Kurile Islands.

26 *i·Z′* 14 04 51

26 *i·Z′* 15 42 37

26 *e·Z′* 15 43 26

26 *i·Z′* 18 13 02

27 *eP·Z′Z* 10 24 41
iS·NE 33 14
eSSS·NE 40.3
L·N 45
$\Delta = 64°$. Tibet-India border.

28 *eP·Z′Z* 4 32 42
eS·NE 36 22
L·N 38.1
$\Delta = 20°$. North Polar basin.

29 *L·E* 4 28

29 *iP·Z′* 5 07 01
eS·E 16 59
L·NE 35
$\Delta = 79°$. Ryukyu Islands.

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July

1 $e \cdot Z'$ 1h21m54s

3 $iP \cdot Z'Z$ 14 36 22
$i \cdot Z'$ 36 32
$i \cdot Z'Z$ 36 42
$ePP \cdot Z$ 38 45
$ePPP \cdot ZNE$ 39 52
$eS \cdot NE$ 44 19
$eScS \cdot E$ 46 15
$L \cdot NE$ 58
$\Delta = 58°$. Aleutian Islands.

4 $iP \cdot Z'Z$ 14 29 38
$i \cdot Z'Z$ 29 56
$iPP \cdot N$ 31 51
$ePPP \cdot NE$ 33 01
$eS \cdot NE$ 37 28
$eSS \cdot E$ 41 36
$L \cdot N$ 49
$\Delta = 58°$. Aleutian Islands.

6 $iP \cdot ZNE$ 2 04 16
$iPcP \cdot Z$ 05 08
$iS \cdot NE$ 12 15
$i \cdot E$ 12 38
$L \cdot NE$ 23
$\Delta = 58°$. Kamchatka.

6 $L \cdot NE$ 10 56

7 $e \cdot Z'$ 2 46 42
$e \cdot NE$ 49 16
F 59

7 $L \cdot NE$ 5 32

7 $L \cdot E$ 9 51

8 $iPKP \cdot Z'$ 18 57 16
$epPKP \cdot Z'$ 59 26
$eSKP \cdot Z'Z$ 59 46
$ePKS \cdot NE$ 19 00 43
$i \cdot NE$ 16 08
$\Delta = 129°$. $h = 600$ km. Fiji Islands.

10 $eS \cdot NE$ 0 06 54
$eSS \cdot NE$ 09 37
$L \cdot NE$ 12.6
$\Delta = 38°$. Greece.

10 $ePP \cdot N$ 14 42 02
$ePS \cdot NE$ 52 07
$eSS \cdot E$ 59 07
$e \cdot N$ 15 01 45
$L \cdot NE$ 20
$\Delta = 127°$. Tonga Islands.

July

11 $eP \cdot Z'Z$ 20h32m43s
$eS \cdot NE$ 42 13
$eSS \cdot E$ 46 51
$L \cdot NE$ 55
$\Delta = 73°$. North Atlantic Ocean.

12 $L \cdot NE$ 17 48

16 $(i)P \cdot Z'Z$ 7 15 32 in the time break.
$ePP \cdot Z$ 16 40
$ePPP \cdot NE$ 17 03
$iS \cdot NE$ 21 18
$eSS \cdot NE$ 24 10
$L \cdot E$ 27.8
$M \cdot NE$ 34 10s. N: 22 μ. E: 35 μ.
$\Delta = 42°$. Dodecanese Islands.

17 $eP \cdot Z$ 22 07 44
$eS \cdot NE$ 15 22
$L \cdot NE$ 24
$\Delta = 54°$. Aleutian Islands.

18 $L \cdot NE$ 2 45

18 $L \cdot NE$ 10 47

19 $e(SS) \cdot NE$ 9 08.3
$L(M) \cdot NE$ 18
$\Delta = 53°$. Uzbekistan, U.S.S.R.

19 $L \cdot N$ 16 43.6

20 $eP \cdot Z'Z$ 0 01 12
$e \cdot Z'Z$ 01 20
$eS \cdot NE$ 08 16
$eScS \cdot E$ 11 06
$e \cdot N$ 12 25
$L \cdot NE$ 18
$\Delta = 49°$. Kodiak Island.

20 $L \cdot NE$ 8 03

20 $L \cdot NE$ 21 36

21 $iP \cdot Z'Z$ 11 58 45
$ipP \cdot Z'Z$ 59 11
$iSKS \cdot NE$ 12 09 10
$iS \cdot NE$ 09 45
$isS \cdot NE$ 10 30
$\Delta = 93°$. $h = 100$ km. Southern Peru.

23 $L \cdot NE$ 11 12

23 $ePP \cdot ZN$ 13 08 00
$ePS \cdot NE$ 17.8
$\Delta = 114°$. Banda Sea.

July

23 *eSS·E* 14h11m40s
L·NE 14
$\Delta = 38°$. North Atlantic Ocean.

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

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

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

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

27 *eP·Z′Z* 1 32 32
eS·NE 42 17
L·NE 56.5
$\Delta = 75°$. 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
$\Delta = 48°$. Kodiak Island.

29 *L·NE* 22 26

August

1 *L·N* 4 18

3 *(L)·N* 21 37.9 period abt. 6s.

4 *iP·Z′* 6 51 44
iS·E 7 00 47
L·NE 17
$\Delta = 69°$. 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* 3h46m

6 *iPKP·Z′Z* 8 49 56 *Z*: 5s, 3 μ.
ipPKP·Z′Z 51 25
isPKP·Z′Z 52 02 *Z*: 6s, 4 μ.
iSKP·Z′ZNE 52 43 *Z*: 6s, 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
$\Delta = 129°$. $h = 350$ 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
$\Delta = 141°$. 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
$\Delta = 116°$. $h = 200$ km. Solomon Islands.

16 *L·NE* 19 36

18 *(L)·NE* 1 48 49
Near shock.

21 *L·NE* 16 44

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August

21	*eP·Z*	17h48m45s	
	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	
	Δ = 112°. New Guinea.		
23	*iP·Z'*	15 42 14	
	eS·NE	49 56	
	iL·E	16 02.4	
	Δ = 55°. Off coast of Oregon.		
25	*iP·Z'Z*	22 22 32	
	L·NE	40	
	Δ = 57°. 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*: 20s, 45 μ. *E*: 24s, 75 μ.
	Δ = 70°. 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	
	Δ = 57°. *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	20s. *N*: 20 μ. *E*: 35 μ.
	Δ = 70°. *h* = 100 km. Guatemala.		

September

3	*iSKS·NE*	16h47m15s	
	eSKKS·N	48 02	
	iPS·NE	50 18	(*eZ*).
	iPPS·N	51 14	(*eZE*).
	eSS·NE	56.0	
	Δ = 107°. Celebes.		
7	*ePP·ZE*	3 36 24	
	eSKS·E	43.1	
	eS·NE	43 44	
	eSS·NE	49 42	
	L·NE	4 08	
	Δ = 92°. 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	
	Δ = 130°. Sandwich Group.		
8	*ePS·N*	3 57 05	
	ePPS·N	58 33	
	L·NE	4.3	
	Δ = 116°. Solomon Islands.		
9	*L·NE*	10 40	
11	*iPS·N*	18 24 12	
	L·NE	54	
	Δ = 116°. 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	
	Δ = 48°. Nile delta area.		
13	*L·NE*	2.4	
15	*ePP·Z'Z*	12 49 56	
	L·NE	13.5	
	Δ = 113°. New Guinea.		
22	*iP·Z'*	3 37 20	
	iSKS·NE	47 47	
	eSS·E	53 08	
	L·NE	4 08	
	Δ = 83°. Formosa.		

Scoresbysund 1955

September				
23	*iP·Z′*	15h18m06s		
	ePP·E	20 54		
	iS·NE	27 46		
	ePS·E	28 07		
	eSS·NE	32 31		
	L·NE	42.5		
	M·NE	53	20s. *N*: 22 *μ*. *E*: 26 *μ*.	
	Δ = 75°. Yunnan province, China.			
24	*L·E*	11 08		
26	*iP·Z′*	8 39 13		
	ipP·Z′	40 01		
	Δ = 69°. *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		
	Δ = 104°. New Britain.			
9	*eP·Z′*	23 23 42		
	iPPP·ZN	27 02		
	eS·N	31 47		
	L·N	44		
	Δ = 59°. 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	30s, 90 *μ*.	
	Δ = 115°. New Britain.			

October				
13	*iPKP·Z′*	9h45m35s		
	ePP·Z′	46 54		
	ePS·N	57 05		
	L·NE	10 24		
	Δ = 120°. 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		
	iPcP·Z′	05 42		
	iS·NE	13 10		
	L·NE	25		
	Δ = 60°. Kurile Islands.			
21	*iP·Z′*	4 45 28		
	eSKS·NE	56 03		
	iS·N	56 43		
	iSS·N	5 03 08		
	Δ = 95°. 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		
	Δ = 129°. *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	1s. Trace ampl.: 5 mm.	
	Near shock.			

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November

8 *ePn·Z′* 23h19m32s
ePg·Z′ 20 03
L·NE 21.5
Δ = 6°.

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
Δ = 122°. *h* = 100 km. Samoa Islands.

15 *eP·Z′* 10 15 45
eS·NE 22 59
eSS·NE 26 57
L·NE 31
Δ = 51°. Alaska Peninsula.

16 *e·Z′* 12 52 39

16 *e·Z′* 17 25 59

16 *iP·Z′* 23 57 22
L·NE 62.5
Δ = 14°. 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
Δ = 146°. New Zealand.

22 *L·NE* 4 28

23 *iP·Z′* 6 39 28
iS·N 47 36
L·NE 57
M·NE 7 02 26s. *N*: 40 μ. *E*: 40 μ.
Masked by strong microseisms.
Δ = 59°. Kamchatka.

23 *e·Z′* 7 08 48

November

24 *e·Z′* 5h33m27s
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
Δ = 83°. Formosa.

30 *i·Z′* 15 31 32

December

4 *iP·Z′* 14 11 19
Δ = 52°. Central Iran.

7 *iP·Z′* 15 15 40
iSKS·NE 25 59
L·NE 47
Masked by strong microseisms.
Δ = 83°. Bonin Islands.

7 *iP·Z′* 23 05 49
Δ = 82°. Ryukyu Islands.

14 *eP·Z′* 11 03 54
Very strong microseisms.
Δ = 77°. Pakistan.

16 *e·Z′* 4 51 57

17 *eP·Z′* 6 17 40
Δ = 60°. California.

17 *iP·Z′* 8 15 56
Δ = 53°. Iran.

19 *L·NE* 4 16

22 *i·Z′* 9 39 37

29 *iP·Z′* 8 36 41
Δ = 69°. Tibet.

September 1958.

HENRY JENSEN