

GEODÆTISK INSTITUT

Proviantsgården · Copenhagen · Denmark

Bulletin of the seismological station

SCORESBYSUND

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

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'. $T_p = 1 \text{ sec}, T_g = 1/4 \text{ sec}, V_{\max}$ abt. 30000.

Seismological Readings

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often those given by BCIS or USCGS. C means compression and D dilatation.

Scoresbysund 1961

January		January	
1	<i>eP·Z'</i> 13 ^h 34 ^m 07 ^s	11	<i>iP·Z'</i> 12 ^h 09 ^m 34 ^s D
			<i>L·NE</i> 36
			$\Delta = 56^\circ$. Aleutian Islands.
2	<i>iP·Z'</i> 10 30 36 D		
	$\Delta = 122^\circ$, h = 160 km. Santa Cruz Islands.	14	<i>eP·Z'</i> 16 48 12 in the time break.
			<i>L·NE</i> 17 06
5	<i>iP·Z'Z</i> 14 16 11 C		$\Delta = 53^\circ$. Unimak Island.
	<i>eS·NE</i> 24 09		
	<i>eSS·N</i> 28 08	16	<i>eP·Z'N</i> 7 31 40
	<i>L·ZNE</i> 33		<i>i·Z'N</i> 31 44
	$\Delta = 57^\circ$. Aleutian Islands.		<i>iS·NE</i> 41 09
5	<i>iP·Z'</i> 15 20 14 D		<i>iPS·N</i> 41 35
	$\Delta = 64^\circ$. Kurile Islands.		<i>eSS·N</i> 45 14
			<i>esSS·N</i> 45 48
5	<i>ePP·Z'</i> 16 13 05		<i>L·NE</i> 53
	$\Delta = 113^\circ$. h = 100 km. New Guinea.		$\Delta = 73^\circ$. h = 130 km. Honshu, Japan.
5	<i>iPKP·Z'</i> 18 17 01 D	16	<i>iP·Z'</i> 8 59 39 D
	<i>ePKS·Z'</i> 20 20		$\Delta = 74^\circ$. h = 200 km. Honshu, Japan.
	<i>eSS·N</i> 37 09	16	<i>iP·Z'</i> 11 31 07 C
	<i>L·ZN</i> 19 06		<i>L·NE</i> 57
	$\Delta = 130^\circ$. h = 120 km. Loyalty Islands.		$\Delta = 73^\circ$. h = 150 km. Honshu, Japan.
5	<i>iPKP·Z'</i> 18 33 45 D	16	<i>eP·Z'</i> 12 23 56
	<i>iPKS·Z'</i> 37 09		<i>eS·E</i> 33 25
	$\Delta = 130^\circ$. h = 120 km. Loyalty Islands.		<i>ePS·E</i> 33 47
6	<i>iP·Z'</i> 1 31 25 C		<i>eSKS·N</i> 34 05
	$\Delta = 67^\circ$. Japan.		<i>L·NE</i> 47
7	<i>eP·Z'</i> 10 38 49		$\Delta = 73^\circ$. Honshu, Japan.
	$\Delta = 43^\circ$. Crete.	16	<i>eP·Z'</i> 13 20 40
7	<i>iP·Z'</i> 16 00 28		$\Delta = 73^\circ$. h = 150 km. Honshu, Japan.
	$\Delta = 40^\circ$. Greece.	16	<i>iP·Z'</i> 14 15 25
7	<i>iPKP·Z'</i> 18 35 56 D		<i>eS·E</i> 24 57
	$\Delta = 128^\circ$. Sandwich Group.		<i>eSS·E</i> 29 32
9	<i>eP·Z'</i> 3 16 17		<i>L·NE</i> 42
	$\Delta = 42^\circ$. North Atlantic Ocean.		$\Delta = 73^\circ$. h = 125 km. Honshu, Japan.
10	<i>iP·Z'</i> 14 32 24 C	16	<i>iP·Z'N</i> 15 52 41 D
	<i>ePPP·N</i> 36 10		<i>eS·E</i> 16 02 07
	<i>eS·N</i> 40 32		<i>iPS·E</i> 02 30
	<i>L·N</i> 52		<i>iSKS·NE</i> 02 47
	$\Delta = 60^\circ$. Kurile Islands.		<i>L·NE</i> 17
10	<i>eP·Z'</i> 15 01 41		$\Delta = 73^\circ$. h = 150 km. Honshu, Japan.
		18	<i>eP·Z'</i> 16 59 56
			$\Delta = 73^\circ$. Honshu, Japan.
		19	<i>eP·Z</i> 17 32 24
			<i>L·NE</i> 51
			$\Delta = 60^\circ$. Kurile Islands.

Scoresbysund 1961

January

20 *eP·Z'* 17^h17^m57^s C
ePP·NE 20 01
eS·NE 25 03
eSS·E 28.3
eSSS·NE 29 11
L·ZNE 32
 $\Delta = 49^\circ$. Kodiak Island region.

20 *eP·Z'* 17 21 51

20 *eP·Z'* 20 46 09
 $\Delta = 71^\circ$. Honshu, Japan.

22 *ePKP·Z'* 3 43 03
eSKKS·N 52 01
ePS·N 54 49
iSS·E 4 01 31
eSSS·N 06 12
E 15
L·ZN 26
 $\Delta = 122^\circ$. Santa Cruz Islands.

23 *eP·Z'* 0 05 36
i·Z' 09 12
 Local shock.

23 *eP·Z'* 7 08 03

24 *iPKP·Z'* 7 43 44
ipPKP·Z' 44 20
 $\Delta = 125^\circ$. New Hebrides Islands.

25 *iP·Z'* 19 14 23 C
 $\Delta = 60^\circ$. Kurile Islands.

28 *eP·Z'* 3 37 46
 $\Delta = 92^\circ$. Near Coast of Peru.

30 *eP·Z'* 12 20 17
iP·Z' 20 42
 $\Delta = 40^\circ$. Central Alaska.

31 *eP·Z'* 0 57 28
eS·N 04 48
eScS·E 07 22
eSSS·NE 08 34
L·NE 15
 $\Delta = 52^\circ$. Kodiak Island.

February

3 *eP·Z'* 13 43 07
 $\Delta = 73^\circ$. h = 100 km. Honshu, Japan.

3 *eP·Z'* 21 41 05

February

4 *iP·Z'* 9^h03^m20^s D
epP·Z' 03 55
 $\Delta = 75^\circ$. h = 160 km. Burma.

4 *eP·Z'* 12 59 28
 $\Delta = 59^\circ$. h = 150 km. Kamchatka.

4 *eP·Z'* 19 21 37
L·E 58
 $\Delta = 83^\circ$. Off east Coast of Formosa.

5 *eP·Z'* 15 50 01
L·NE 16 14
 $\Delta = 73^\circ$. South of Panama.

6 *eP·Z'* 11 45 15
 Local shock.

6 *iP·Z'* 18 26 02 C
 $\Delta = 65^\circ$. Kurile Islands.

6 *ePKP·Z'* 22 03 54 C
ePP·Z 04 59
ePS·N 14 53
eSS·N 20 47
L·NE 40
 $\Delta = 116^\circ$. h = 60 km. Solomon Islands.

7 *eP·Z'* 21 12 22
 $\Delta = 65^\circ$. Kurile Islands.

8 *iPKP·Z'* 2 55 26 D
 $\Delta = 125^\circ$. h = 160 km. New Hebrides Islands region.

8 *iP·Z'* 8 15 59 D
 $\Delta = 87^\circ$. h = 650 km. Brazil-Peru border.

8 *eP·Z'* 17 59 23

8 *iPKP·Z'* 2 27 40 C
 $\Delta = 133^\circ$. Kermadec Islands region.

11 *iP·Z'* 6 23 58 C
 $\Delta = 80^\circ$. h = 350 km. Bonin Islands.

11 *ePKP·Z'* 21 20 19
 $\Delta = 136^\circ$. Kermadec Islands.

12 *iP·Z'Z* 22 04 27 C
iPPP·Z 08 40
iS·NE 13 14
iPS·E 13 32
iScS·NE 14 07
eSS·E 17 32
L·ZNE 23
iPKPPKP·Z' 33 22
 $\Delta = 66^\circ$. Kurile Islands.

Scoresbysund 1961

February

- 12 *iP·Z'* 23^h37^m20^s D
L·NE 57
ePKPPKP·Z' 0 06 14
 $\Delta = 65^\circ$. Repetition.
- 13 *iP·Z'* 16 38 09 D
L·NE 17 05
ePKPPKP·Z' 07 00
 $\Delta = 65^\circ$. Repetition.
- 13 *eP·Z'* 22 48 00
 $\Delta = 65^\circ$. Repetition.
- 14 *eP·Z'* 0 26 20
 $\Delta = 65^\circ$. Repetition.
- 14 *eP·Z'* 3 01 51 D
 $\Delta = 65^\circ$. $h = 100$ km. Kurile Islands.
- 14 *eP·Z'* 3 32 49 C
L·NE 59
 $\Delta = 65^\circ$. Repetition.
- 15 *eP·Z'N* 10 55 58
ePcP·N 56 19
eS·NE 11 04 47
eScS·N 05 41
L·NE 15
ePKPPKP·Z' 24 47
 $\Delta = 66^\circ$. $h = 70$ km. Repetition.
- 15 *eP·Z'* 11 39 42 D
 $\Delta = 66^\circ$. Tibet.
- 16 *eP·Z'* 3 51 54
 $\Delta = 36^\circ$. $h = 150$ km. Albania.
- 16 *iP·Z'* 14 05 35 C
 $\Delta = 65^\circ$. Kurile Islands.
- 18 *eP·Z'* 1 14 47
 $\Delta = 65^\circ$. Repetition.
- 21 *eP·Z'* 3 09 58
 $\Delta = 44^\circ$. Greece.
- 23 *eP·Z'* 3 30 32 C
e·Z' 30 51
 Local shock.
- 23 *iP·Z'* 4 27 35 D
iS·E 36 48
iPS·E 37 08
L·NE 51
 $\Delta = 70^\circ$. Off east coast of Honshu, Japan.

February

- 24 *iP·Z'* 3^h16^m27^s C
 $\Delta = 80^\circ$. Ryukyu Islands.
- 26 *L·NE* 6 50
- 26 *iP·Z'ZNE* 18 22 35 C
iPP·ZNE 25 30
iS·NE 32 23
iPS·NE 32 48
eScS·N 32 54
iSS·NE 37 02
L·ZNE 46
 $\Delta = 76^\circ$. Near Kyushu, Japan.
- 27 *e·Z'* 12 24 11
i·Z' 24 48
L·NE 25
 Jan Mayen region.
- 27 *eP·Z'* 13 16 04 C
L·NE 38
 $\Delta = 55^\circ$. Aleutian Islands.
- 28 *eP·Z'* 12 44 01
 $\Delta = 63^\circ$. Kurile Islands.
- 28 *e·Z'* 16 58 01
- March
- 7 *iPKP·Z'* 10 29 57 C
iPP·Z'NE 32 31
i·Z' 32 53
iPKS·NE 33 28
ePPP·N 35 25
iSKKS·NE 39 34
iSKSP·E 42 48
ePPS·NE 44 37
iSS·NE 50 25
iSSS·E 55 45
L·NE 11 04
 $\Delta = 136^\circ$. Kermadec Islands region.
- 9 *eP·Z'* 4 09 33
 $\Delta = 61^\circ$. Atlantic Ocean.
- 11 *eP·Z'* 1 41 50
 $\Delta = 60^\circ$. Kurile Islands.
- 11 *iP·Z'* 8 52 27 D
 $\Delta = 72^\circ$. Gulf of Aden.
- 13 *iP·Z'* 8 15 01 C
L·NE 39
 $\Delta = 70^\circ$. Off west coast of Mexico.
- 13 *eP·Z'* 19 25 27
 $\Delta = 44^\circ$. Crete.

Scoresbysund 1961

March

- 15 *e·Z'* 4^h52^m34^s
- 15 *ePP·Z'* 10 34 24
L·NE 11 11
 $\Delta = 113^\circ$. New Ireland region.
- 15 *eP·Z'* 23 32 14
 Arctic Ocean.
- 16 *iP·Z'* 5 07 49
 $\Delta = 57^\circ$. Aleutian Islands.
- 16 *e·Z'* 14 04 28
ePP·Z' 05 07
iPS·NE 14 45
eSS·E 21 07
eSSS·N 25 22
L·NE 40
 $\Delta = 114^\circ$. Flores Sea.
- 17 *eP·Z'* 22 52 00
ePcP·Z' 52 12
 $\Delta = 75^\circ$. $h = 120$ km. Japan.
- 18 *ePKP·Z'Z* 15 15 07
ePP·Z'ZN 19 18
i·N 25 15
eSKKS·N 26 17
eSKSP·NE 29 48
eSS·NE 39 25
eSSS·NE 45 45
L·NE 16 11
 $\Delta = 159^\circ$. South of New Zealand.
- 19 *eP·Z'* 5 02 58
 $\Delta = 69^\circ$. North of Honshu, Japan.
- 19 *iPKP·Z'* 7 34 03 C
 $\Delta = 125^\circ$. New Hebrides Islands.
- 19 *eP·Z'* 9 30 11 D
 $\Delta = 72^\circ$. $h = \text{abt. } 75$ km. Japan.
- 19 *ePKP·Z'* 12 24 53
 $\Delta = 125^\circ$. New Hebrides Islands.
- 20 *eP·Z'* 3 40 17
 $\Delta = 58^\circ$. Hindu Kush.
- 20 *e·Z'* 6 28 02
L·NE 48
 $\Delta = 72^\circ$. Off west coast of Nicaragua.
- 20 *iP·Z'* 11 48 35
iPcP·Z' 49 09
 $\Delta = 63^\circ$. $h = 350$ km. Sakhalin Island.

March

- 20 *iPKP·Z'* 16^h11^m57^s C
ipPKP·Z' 12 53
ePP·N 14 18
eSKS·NE 19 07
eSKSP·E 23 51
ePPS·N 25 30
iSS·NE 30 25
isSS·NE 31 55
L·NE 55
 $\Delta = 125^\circ$. $h = 200$ km. Tonga Islands.
- 21 *ePKP·Z'* 0 01 50
iPKS·N 05 20
eSS·NE 21 42
i·E 24 10
L·NE 45
 $\Delta = 132^\circ$. Tonga Islands.
- 24 *iP·Z'* 23 08 41 C
 $\Delta = 73^\circ$. $h = 100$ km. Japan.
- 26 *eP·Z'* 14 43 06
 $\Delta = 101^\circ$. $h = 140$ km. Philippine Islands.
- 26 *eP·Z'* 23 39 46
- 28 *iP·Z'ZN* 9 50 03 C
iPKP·Z' 54 10
ePP·N 54 29
iPPP·Z 56 39
iSKS·NE 10 00 49
iSKKS·NE 01 34
iS·E 02 21
iPS·E 03 59
iPPS·N 04 35
i·N 05 52
iSSS·E 13 41
L·NE 27
 $\Delta = 107^\circ$. $h = 100$ km. Celebes.
- 28 *iP·Z'Z* 12 38 53
L·NE 57
 $\Delta = 56^\circ$. Aleutian Island.
- 28 *eP·Z'* 21 15 32
eSKS·E 26 00
iS·NE 26 48
eSS·N 33 42
 $\Delta = 98^\circ$. $h = 125$ km. Chile-Bolivia border.
- 29 *eP·Z'* 6 55 21
 $\Delta = 75^\circ$. $h = 100$ km. Near Honshu, Japan.
- 29 *eP·Z'* 18 21 41
 $\Delta = 72^\circ$. $h = 125$ km. Near Honshu, Japan.

Scoresbysund 1961

March

30 *eP·Z'* 7^h54^m13^s
eS·N 8 03 04
L·NE 17
 $\Delta = 67^\circ$. Gulf of California.

30 *e·N* 9 30 13
L·NE 52

31 *iP·Z'* 5 32 13 C
 $\Delta = 77^\circ$. South of Honshu, Japan.

April

1 *iP·Z'* 2 52 36 C
 $\Delta = 78^\circ$. $h = 135$ km. South of Honshu, Japan.

1 *iP·Z'ZNE* 15 28 07 C
iPP·ZE 30 13
iPPP·E 31 20
iS·NE 36 01
iPS·NE 36 24
eSSS·N 41 43
L·ZNE 45
 $\Delta = 57^\circ$. Sinkiang Province, China.

2 *iP·Z'* 2 56 39 C
 $\Delta = 78^\circ$. $h = 175$ km. Japan.

3 *eP·Z'* 16 41 52
 $\Delta = 57^\circ$. Off east coast of Kamchatka.

No time-marks from April 3, 22^h–April 8, 20^h.

9 *iP·Z'* 7 33 21 C
L·NE 53
 $\Delta = 59^\circ$. California.

9 *eP·Z'* 7 35 42
 Repetition.

9 *ePKP·Z* 9 39 40
iSKP·Z' 42 10
 $\Delta = 133^\circ$. $h = 650$ km. South of Fiji Islands.

9 *eP·Z'* 12 15 53
 Near shock.

9 *iP·Z'* 15 47 30 C
eS·NE 58 00
eSS·NE 16 03.2
L·NE 14
 $\Delta = 82^\circ$. Near coast of Formosa.

10 *eP·Z'* 7 09 37
 $\Delta = 82^\circ$. Near coast of Formosa.

April

12 *eP·Z'* 17^h38^m04^s
 $\Delta = 62^\circ$. Kurile Islands.

12 *iP·Z'* 22 31 37 C
ipP·Z' 31 56
eS·E 40 43
ePS·E 41 10
L·ZNE 53
ePKPPK·Z' 59 37
 $\Delta = 69^\circ$. $h = 125$ km. El Salvador.

13 *eP·Z'* 13 04 14
 Near shock.

13 *iP·Z'* 15 38 04 C
 $\Delta = 80^\circ$. $h = 200$ km. Ryukyu Islands.

13 *iP·Z'* 16 44 21 C
eS·E 52 22
ePS·E 52 27
i·NE 52 54
e·NE 57 20
L·ZNE 17 02
 $\Delta = 58^\circ$. Sinkiang Province, China.

16 *iP·Z'* 11 50 22 C
 $\Delta = 57^\circ$. Kamchatka.

16 *L·E* 12 50

17 *eP·Z'* 16 32 03
 $\Delta = 67^\circ$. Mid-Atlantic Ocean.

18 *eP·Z'* 5 36 07
e·Z' 36.23
 Near shock.

19 *iP·Z'Z* 16 23 10 D
L·E 48
 $\Delta = 65^\circ$. Kurile Islands.

19 *iP·Z'* 20 30 28
L·E 50
 $\Delta = 65^\circ$. Kurile Islands.

19 *iP·Z'* 22 18 30 D
 $\Delta = 65^\circ$. Kurile Islands.

20 *ePKP·Z'* 21 58 16
L·NE 22 41
 $\Delta = 122^\circ$. South of Samoa Islands.

21 *eP·Z'* 20 21 01 in time-break.
L·E 41
 $\Delta = 62^\circ$. Kurile Islands.

21 *L·NE* 22 00

Scoresbysund 1961

April

23 *iP·Z'Z* 5^h26^m42^s D
ipP·Z' 26 53
eS·E 37 01
eSKS·NE 37 06
eSS·NE 42 16
L·E 55
 $\Delta = 82^\circ$. $h = 100$ km. Ryukyu Islands.

23 *iP·Z'ZN* 9 12 21 C
iPcP·ZE 12 34
eS·NE 20 59
iPS·E 21 12
iScS·E 22 06
L·ZNE 30
 $\Delta = 64^\circ$. Kurile Islands.

23 *eP·Z'* 12 28 35
L·E 50
 $\Delta = 65^\circ$. Kurile Islands,

23 *eP·Z'* 14 06 01 in time-break
 $\Delta = 65^\circ$. Kurile Islands.

23 *iP·Z'* 17 01 41 D
ePS·E 10 33
L·NE 22
 $\Delta = 65^\circ$. Kurile Islands.

23 *eP·Z'* 21 41 09
 Near shock.

24 *iP·Z'* 12 38 17
L·E 13 00
 $\Delta = 65^\circ$. Kurile Islands.

25 *eP·Z'* 0^h29^m05^s
 $\Delta = 66^\circ$. Kurile Islands.

25 *eP·Z'* 0 38 52
ipP·Z' 39 19
 $\Delta = 65^\circ$. $h = 75$ km. Kurile Islands.

25 *eP·Z'* 1 28 17 C
epP·Z 28 42
eS·NE 37 02
L·NE 48
 $\Delta = 65^\circ$. $h = 75$ km. Kurile Islands.

26 *iP·Z'* 7 49 37 C
eS·NE 58 23
eScS·NE 59 42
L·NE 8 08
 $\Delta = 66^\circ$. Kurile Islands.

26 *iP·Z'* 19 43 13 C
L·E 20 03
 $\Delta = 65^\circ$. Kurile Islands.

April

27 *iP·Z'* 18^h05^m11^s
 $\Delta = 91^\circ$. $h = 125$ km. Peru.

29 *iP·Z'Z* 9 29 16 C
 $\Delta = 58^\circ$. Off northern California.

29 *eP·Z'E* 9 30 22
i·N 31 07
L·ZNE 31
 $\Delta = 5^\circ$. Jan Mayen region.

30 *iP·N* 7 38 15
e·E 41 57
L·NE 43
 $\Delta = 19^\circ$. No Z records. North Atlantic Ocean.

30 *eS·NE* 11 34 39
L·NE 45
 $\Delta = 65^\circ$. No Z records. Kurile Islands.

30 *L·NE* 15 46

May

1 *eP·Z'* 12 28 54
 $\Delta = 57^\circ$. California.

1 *eP·Z'* 18 55 12
 $\Delta = 57^\circ$. California.

2 *eP·Z'E* 3 13 00 in time-break
eS·ZNE 14 00 in time-break
L·NE 14 13
 $\Delta = 5^\circ$. Jan Mayen region.

2 *eP·Z'Z* 8 31 35
eS·N 32 31
L·ZNE 33
 $\Delta = 5^\circ$. Jan Mayen region.

2 *ePKP·Z'Z* 23 04 04
ePP·ZE 06 37
ePKS·ZNE 07 31
ePPS·ZN 19 03
eSS·E 24 34
i·E 26 47
L·NE 53
 $\Delta = 136^\circ$. Kermadec Islands region.

3 *iP·Z'* 0 37 28 D
 $\Delta = 70^\circ$. Mid-Atlantic Ocean.

4 *eP·Z'* 2 27 20
 $\Delta = 57^\circ$. California.

5 *L·NE* 12 32

5 *ePPS·E* 14 17 43
e·E 25 21
L·NE 53
 $\Delta = 136^\circ$. Kermadec Islands region.

Scoresbysund 1961

May

6 *eP·Z'* 16^h11^m47^s
L·E 25
 $\Delta = 38^\circ$. Mediterranean Sea.

6 *ePKP·Z'* 23 32 28
 $\Delta = 126^\circ$. New Hebrides Islands.

7 *ePP·NE* 0 55 18
L·NE 1 20
 $\Delta = 115^\circ$. Solomon Islands region.

7 *iSKKS·NE* 10 47 43
L·NE 11 05
 $\Delta = 100^\circ$. Philippine Islands.

7 *eP·Z'ZE* 15 42 01
iS·ZNE 43 03
L·ZNE 43.4
 $\Delta = 5^\circ$. Jan Mayen region.

8 *L·E* 20 18

11 *ePS·NE* 9 07 45
eSS·NE 13 47
L·NE 36
 $\Delta = 114^\circ$. Near coast of southern Chile.

13 *ePKP·Z'* 14 38 04
ePKS·E 41 44
e·E 44 18
e·E 15 00 46
L·NE 30
 $\Delta = 136^\circ$. Kermadec Islands region.

13 *iPKP·Z'* 15 10 57 C
ipPKP·Z' 12 53
 $\Delta = 125^\circ$. $h = 550$ km. Fiji Islands.

13 *iP·Z'* 16 00 16 C
L·NE 23
 $\Delta = 66^\circ$. Japan.

13 *iP·Z'* 19 31 26 C
epP·Z' 32 25
 $\Delta = 81^\circ$. $h = 260$ km. Formosa.

14 *ePKP·Z'* 0 32 16
i·Z' 32 19
 $\Delta = 148^\circ$. New Zealand.

14 *eP·Z'* 15 04 05
e·Z' 04 37
L·NE 05
 $\Delta = 3^\circ$. North of Iceland.

May

14 *iP·Z'* 15^h08^m48^s
i·Z' 08 53
e·N 09 12
L·NE 09
 $\Delta = 3^\circ$. North of Iceland.

14 *iP·Z'NE* 15 38 53
e·Z'N 39 06
L·NE 39
 $\Delta = 3^\circ$. North of Iceland.

14 *eP·Z'* 19 41 19
eS·N 49 20
L·NE 20 01
 $\Delta = 57^\circ$. California.

15 *eP·Z'* 6 47 39
e·Z' 48 19
 Near shock.

15 *iPKP·Z'* 21 11 57 C
 $\Delta = 127^\circ$. $h = 100$ km. Tonga Islands.

16 *e·E* 18 07 30
ePS·E 09 40
L·NE 40
 $\Delta = 135^\circ$. Kermadec Islands.

16 *iP·Z'NE* 21 57 23 D
e·N 22 00 43
eS·NE 07 14
ePS·E 07 47
L·NE 30
 $\Delta = 77^\circ$. Ryukyu Islands.

17 *iP·Z'NE* 19 39 08 C
e·NE 42 52
iS·NE 47 04
iPS·NE 47 18
L·NE 57
 $\Delta = 58^\circ$. Aleutian Islands.

18 *eP·Z'* 9 41 28
L·NE 43
 $\Delta = 8^\circ$. Arctic Ocean.

19 *iP·Z'* 16 49 48
L·NE 17 20
 $\Delta = 82^\circ$. Ryukyu Islands.

22 *ePKP·Z'* 14 03 38 C
L 49
 $\Delta = 128^\circ$. $h = 100$ km. Tonga Islands.

Scoresbysund 1961

May

22	<i>ePKP·Z'</i>	17 ^h 51 ^m 32 ^s	
	<i>i·Z'</i>	51 50	
	<i>iPKS·Z'NE</i>	54 50	
	<i>eSKKS·N</i>	18 00 22	
	<i>ePS·N</i>	03 51	
	<i>eSS·NE</i>	11 06	
	<i>L·NE</i>	33	
	$\Delta = 130^\circ$. Tonga Islands region.		
23	<i>iP·Z'NE</i>	2 53 13	C
	<i>ePP·E</i>	54 54	
	<i>i·NE</i>	55 54	
	<i>iS·NE</i>	59 39	
	<i>eSS·N</i>	3 02 55	
	<i>eSSS·E</i>	03 17	
	<i>L·NE</i>	07	
	$\Delta = 43^\circ$. Turkey.		
23	<i>eP·Z'E</i>	16 56 08	D
	<i>epP·Z'</i>	56 23	
	<i>ePPP·E</i>	17 00 23	
	<i>eScS·NE</i>	05 37	
	<i>L·NE</i>	16	
	$\Delta = 70^\circ$. $h = 140$ km. Nicaragua.		
24	<i>e·Z'</i>	17 40 41	
	Seismic?		
26	<i>epP·Z'</i>	8 56 12	
	$\Delta = 87^\circ$. $h = 700$ km. Peru-Brazil border.		
27	<i>eP·Z'</i>	7 29 17	
	$\Delta = 67^\circ$. Japan.		
29	<i>eP·Z'</i>	0 32 23	C
	<i>L·NE</i>	53	
	$\Delta = 55^\circ$. Aleutian Islands.		
29	<i>L·NE</i>	8 31	
31	<i>eP·Z'</i>	14 28 04	
	<i>eSS·E</i>	40 54	
	<i>L·E</i>	49	
	$\Delta = 62^\circ$. Gulf of California.		
31	<i>eP·Z'</i>	14 49 33	
	$\Delta = 61^\circ$. Kurile Islands.		
31	<i>L·E</i>	20 10	
June			
1	<i>L·E</i>	10 32	
1	<i>eP·Z'E</i>	23 40 37	C
	<i>iPcP·Z'N</i>	40 49	
	<i>ePP·E</i>	43 09	

June

1	<i>ePPP·E</i>	23 ^h 45 ^m 13 ^s	(Con.)
	<i>ePS·NE</i>	50 09	
	<i>eSKS·E</i>	50 37	
	<i>eSS·E</i>	54 26	
	<i>L·NE</i>	0 02	
	$\Delta = 71^\circ$. Ethiopia.		
2	<i>eP·Z'</i>	5 02 32	D
	$\Delta = 72^\circ$. Ethiopia.		
2	<i>eP·Z'</i>	5 33 51	C
	<i>i·Z'</i>	33 55	
	$\Delta = 72^\circ$. Repetition.		
2	<i>eP·Z'</i>	5 56 13	C
	$\Delta = 72^\circ$. Repetition.		
2	<i>eP·Z'</i>	7 14 09	C
	$\Delta = 72^\circ$. Repetition.		
2	<i>eP·Z'</i>	11 09 24	
	$\Delta = 15^\circ$. Svalbard region.		
3	<i>eS·E</i>	1 30 23	
	<i>L·E</i>	38	
	$\Delta = 53^\circ$. East coast of Kamchatka.		
3	<i>eP·Z'</i>	15 34 37	
	<i>L·E</i>	16 02	
	$\Delta = 72^\circ$. Ethiopia.		
4	<i>iP·Z'NE</i>	7 43 30	D
	<i>ePP·E</i>	45 49	
	<i>eS·NE</i>	52 24	
	<i>ePS·E</i>	52 46	
	<i>eSS·NE</i>	59 06	
	<i>L·NE</i>	8 07	
	<i>ePKPPKP·Z'</i>	12 38	
	$\Delta = 63^\circ$. Tibet.		
4	<i>eP·Z'</i>	7 ^h 54 ^m 10 ^s	D
	$\Delta = 63^\circ$. Repetition.		
4	<i>eP·Z'</i>	14 01 55	
	<i>L·E</i>	28	
	$\Delta = 63^\circ$. Repetition.		
5	<i>eP·Z'</i>	3 41 00	
	<i>L·E</i>	4 03	
	$\Delta = 60^\circ$. Iran.		
7	<i>iP·Z'N</i>	14 27 10	C
	<i>iPcP·Z'</i>	27 16	
	<i>eS·NE</i>	36 58	
	<i>eSeS·N</i>	37 40	
	<i>L·NE</i>	52	
	$\Delta = 77^\circ$. Ascension Islands region.		

Scoresbysund 1961

June

- 9 *eP·Z'* 9^h45^m16^s
e·Z' 45 32
eSSS·N 56 02
L·E 10 02
 $\Delta = 46^\circ$. Caspian Sea.
- 9 *eP·Z'* 15 54 50 C
 $\Delta = 79^\circ$. $h = 150$ km. Japan.
- 10 *eP·Z'* 9 04 02
eS·NE 14 12
eSS·E 19 26
L·NE 30
 $\Delta = 78^\circ$. Mexico.
- 10 *e·E* 21 07 04
e·NE 07 26
eSSS·E 11 06
L·NE 25
 $\Delta = 112^\circ$. Easter Island region.
- 11 *iP·Z'ZE* 5 20 29 C
i·ZE 20 37
ePP·ZE 22 16
ePPP·E 23 56
eS·ZNE 28 51
iSS·E 32 35
ePKPPKP·Z' 39 51
L·ZNE 39
 $\Delta = 62^\circ$. Iran.
- 11 *eP·Z'* 5 40 16 C
 $\Delta = 60^\circ$. Repetition.
- 11 *eP·Z'* 6 02 46
 $\Delta = 58^\circ$. Kamchatka.
- 11 *eP·Z'* 6 56 53
 $\Delta = 60^\circ$. Iran.
- 11 *eP·Z'* 7 01 32
 $\Delta = 60^\circ$. Repetition.
- 11 *eP·Z'* 10 24 43
 $\Delta = 25^\circ$. North Atlantic Ocean.
- 11 *eP·Z'* 12 40 26
 $\Delta = 60^\circ$. Iran.
- 11 *iP·Z'ZE* 12 41 31 C
eS·NE 49 49
eScS·E 51 26
eSS·E 53 36
eSSS·NE 56 13
L·NE 13 01
 $\Delta = 61^\circ$. Iran.

June

- 11 *eP·Z'E* 14^h08^m02^s in time-break.
ePP·Z' 10 08
L·E 29
 $\Delta = 60^\circ$. Repetition.
- 11 *eP·Z'* 17 27 21
eS·N 37 11
L·NE 58
 $\Delta = 76^\circ$. Burma-China border.
- 12 *L·NE* 0 48
- 12 *iP·Z'* 10 10 33 C
ePP·Z' 13 38
L·E 44
 $\Delta = 82^\circ$. North Viet-Nam.
- 12 *e·Z'* 11 55 06
 Seismic?
- 12 *eP·Z'* 17 36 37
L·ZNE 37
 Local shock.
- 13 *ePKP·Z'* 21 56 49
ipPKP·Z' 57 31
 $\Delta = 128^\circ$. $h = 150$ km. Tonga Islands region.
- 14 *iP·Z'* 0 52 54 C
epP·Z' 53 15
eS·E 1 02 32
L·E 21
 $\Delta = 75^\circ$. $h = 60$ km. Burma.
- 14 *eP·Z'* 2 23 54
e·Z' 24 08
 Local shock.
- 14 *iP·Z'* 20 43 38 C
L·NE 21 14
 $\Delta = 72^\circ$. Ethiopia.
- 15 *eP·Z'* 6 31 39
 $\Delta = 60^\circ$. Iran.
- 15 *iP·Z'* 23 35 14 C
eS·E 43 56
ePS·E 44 05
L·E 54
 $\Delta = 64^\circ$. Kurile Islands.
- 16 *ePKP·Z'* 6 44 44 D
 $\Delta = 145^\circ$. North Island. New Zealand.
- 16 *iP·Z'ZNE* 10 42 57 D
epP·Z'ZE 43 35
ePP·Z' 45 30

Scoresbysund 1961

Jan.-June 1961

June

- 16 *eS·NE* 10^h51^m55^s (Con.)
eScS·NE 52 43
L·NE 11 05
 $\Delta = 69^\circ$. $h = 120$ km. Colombia.
- 17 *eP·E* 15 18 44
ePS·E 28 22
eSS·E 32 46
L·NE 40
 $\Delta = 70^\circ$. Mexico-Guatemala border.
- 18 *ePKP·Z'* 14 13 55
eSKP 16 51
 $\Delta = 139^\circ$. $h = 450$ km. Kermadec Islands region.
- 19 *eP·Z'* 1 58 38
ePS·E 2 10 39
L·E 32
 $\Delta = 93^\circ$. Philippine Islands.
- 19 *eP·Z'* 2 57 08
 $\Delta = 70^\circ$. Off east coast of Japan.
- 19 *eP·Z'* 7 49 37 D
eS·E 58 53
L·E 8 18
 $\Delta = 70^\circ$. Off east coast of Japan.
- 19 *eP·Z'* 17 14 05 C
epP·Z' 14 50
eS·E 21 52
iPS·E 22 06
L·NE 28
 $\Delta = 57^\circ$. $h = 200$ km. Hindu Kush.
- 20 *eP·Z'* 3 32 53 D
eScS·E 43 09
L·NE 56
 $\Delta = 71^\circ$. Gulf of Aden.
- 21 *iP·Z'* 4 08 31
L·NE 36
 $\Delta = 67^\circ$. Honduras.
- 21 *iP·Z'* 6 49 26 C
 $\Delta = 60^\circ$. Iran.
- 21 *eP·Z'* 16 12 37
L·E 26
 $\Delta = 42^\circ$. Turkey.
- 21 *eP·Z'* 20^h39^m36^s
e·Z' 39 52
e·Z' 43 32
 $\Delta = 110^\circ$. Java.

June

- 21 *L·NE* 21 03
- 22 *eP·Z'* 1 02 55
L·NE 16
 $\Delta = 35^\circ$. Albania-Yugoslavia border.
- 23 *eP·Z'E* 9 05 21 D
eS·NE 13 05
eSS·N 17 22
eSSS·E 18 07
L·NE 22
 $\Delta = 55^\circ$. Off coast of Oregon.
- 23 *iP·Z'* 9 32 13 C
eS·E 39 53
 $\Delta = 55^\circ$. Repetition.
- 23 *eP·Z'* 11 16 24
 $\Delta = 73^\circ$. Honshu, Japan.
- 23 *iP·Z'* 13 30 40
 $\Delta = 63^\circ$. Kurile Islands.
- 23 *eP·Z'* 16 46 29
L·E 17 11
 $\Delta = 60^\circ$. Iran.
- 24 *e·Z'* 0 59 17
- 24 *L·NE* 10 27
- 24 *iP·Z'* 11 04 41
i·NE 04 57
iS·NE 05 03
 $\Delta = 2^\circ$. East of the station.
- 25 *eP·Z'* 2 40 31
 $\Delta = 68^\circ$. Honshu, Japan.
- 25 *eP·Z'Z* 16 59 28 D
e·N 17 09 22
eSKS·NE 10 03
L·NE 33
 $\Delta = 87^\circ$. Mariana Islands.
- 26 *iP·Z'ZNE* 14^h57^m12^s C
ePPP·N 15 00 36
iS·E 05 08
eSS·N 09 08
L·NE 14
 $\Delta = 57^\circ$. Aleutian Islands.
- 27 *iP·Z'ZNE* 7 15 18 C
eS·NE 24 53

Scoresbysund 1961

June

27 *ePS·N* 25 20
eScS·NE 25 30
eSS·N 29 27
L·NE 39
 $\Delta = 74^\circ$. Yunan Province, China.

27 *eP·Z'* 8 02 02 in the time-break.
ipP·Z' 02 58
 $\Delta = 55^\circ$. h = abt. 300 km. Kamchatka.

28 *eP·Z'* 17 20 34
e·Z' 21 22
e·Z' 21 55
 Local shock.

29 *ePKP·Z'* 9^h41^m52^s C
iPP·Z 43 34

June

29 *ePS·N* 53 37
eSS·N 59 55
L·N 10 30
 $\Delta = 123^\circ$. New Hebrides Islands.

29 *iP·Z'* 11 45 26
 $\Delta = 64^\circ$. Kurile Islands.

29 *iP·Z'* 14 12 14 C
epP·Z' 12 34
 $\Delta = 55^\circ$. h = 75 km. Aleutian Islands.

30 *eP·Z'* 5 13 32
L·E 31
 $\Delta = 45^\circ$. Mediterranean Sea.

September 1964.

Erik Moller.