

GEODÆTISK INSTITUT

Proviantgården · 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 due to BCIS or USCGS. The periods given are periods of full oscillations. The amplitudes are single amplitudes of the ground in microns. C means compression and D dilatation. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.



### Scoresbysund 1960

#### January

- 3 *iP·Z'* 20<sup>h</sup>26<sup>m</sup>17<sup>s</sup> C  
 $\Delta = 37^\circ$ . Tyrrkenian Sea.
- 9 *iP·Z'* 7 33 26 C  
*ipP·Z'* 34 11  
 $\Delta = 57^\circ$ .  $h = 200$  km. Hindu Kush.
- 11 *eP·Z'* 2 39 50  
 $\Delta = 80^\circ$ . Ryukyu Islands.
- 13 (*iP·Z*) 15 53 38 in the time break.  
*ePP·Z* 57 20  
*iSKS·NE* 16 04 04  
(*iS·NE*) 04 38 in the time break.  
*ePS·NE* 05 40  
*L·NE* 24  
 $\Delta = 93^\circ$ .  $h = 100$  km. Peru.
- 14 *eP·Z'* 10 37 19  
 $\Delta = 72^\circ$ . Japan.
- 15 *iP·Z'ZN* 9 43 26 C  
*i·ZE* 43 37  
*e·Z'* 43 50  
*i(S)·NE* 54 30  
*i·N* 54 51  
*L·NE* 10 17  
 $\Delta = 93^\circ$ .  $h = 100$  km. Peru.
- 16 *iP·Z'* 20 57 10 C  
*ipP·Z'* 57 36  
*ePP·Z'* 58 54  
 $\Delta = 42^\circ$ .  $h = 150$  km. Alaska.
- 17 *eP·Z'* 3 10 58 D  
 $\Delta = 93^\circ$ .  $h = 100$  km. Peru.
- 23 *L·NE* 5 35
- 23 *L·NE* 8 28
- 25 *eP·Z'* 3 29 54  
 $\Delta = 87^\circ$ . South Atlantic Ocean.
- 26 *eP·Z'* 10 00 17  
 $\Delta = 43^\circ$ . Turkey.
- 26 *eP·Z'* 13 13 36  
 $\Delta = 42^\circ$ . Turkey.
- 31 *eP·Z'* 5 20 03  
 $\Delta = 75^\circ$ . Japan.

#### February

- 1 *eP·Z'* 12 07 43  
 $\Delta = 43^\circ$ . Crete.
- 3 *iPKP·Z'* 2 40 35  
 $\Delta = 145^\circ$ . New Zealand.

#### February

- 4 *ePKKP·Z'* 4<sup>h</sup>16<sup>m</sup>23<sup>s</sup>  
*eSS·NE* 22.0  
*L·NE* 41  
 $\Delta = 113^\circ$ . New Ireland.
- 4 *eP·Z'* 17 01 33  
*L·NE* 26  
 $\Delta = 70^\circ$ . Japan.
- 8 *L·NE* 13 49
- 10 *ePKP·Z'* 0 14 25  
*ePKKP·Z'* 25 33  
 $\Delta = 110^\circ$ . Celam Sea.
- 17 *ePKP·Z'* 12 57 55  
*L·NE* 13 39  
 $\Delta = 118^\circ$ . Easter Island.
- 18 *eP·Z'* 21 45 00  
*L·E* 22 07  
 $\Delta = 57^\circ$ . Kamchatka.
- 18 *eP·Z'* 22 35 47  
 $\Delta = 56^\circ$ . Aleutian Islands.
- 19 *iP·Z'* 10 46 19  
*ipP·Z'* 47 06  
*iS·E* 53 59  
*isS·E* 55 11  
 $\Delta = 57^\circ$ .  $h = 200$  km. Hindu Kush.
- 23 *iP·Z'* 7 41 58  
 $\Delta = 39^\circ$ . Greece.
- 23 *iPKP·Z'* 11 49 14 C  
 $\Delta = 126^\circ$ .  $h = 500$  km. Fiji Islands.
- 24 *iPKP·Z'* 21 55 51 D  
*ePS·N* 22 06 53  
*L·NE* 37  
 $\Delta = 117^\circ$ . Solomon Islands.
- 26 *iP·Z'* 23 39 17 D  
 $\Delta = 57^\circ$ . Aleutian Islands.
- 27 *eP·Z'* 8 19 55  
 Repetition.
- 28 *e·Z'* 0 15 40  
*e·Z'* 15 50
- 28 *eP·Z'* 7 29 15  
 $\Delta = 11^\circ$ . Off Northern Nordway.
- 29 *e·Z'* 5 30 33



### Scoresbysund 1960

March		March	
2	<i>eP·Z'</i> $\Delta = 69^\circ$ . Mexico.	0 <sup>h</sup> 21 <sup>m</sup> 32 <sup>s</sup>	
2	<i>e·Z'</i> <i>i·Z'</i> East Greenland?	1 40 15 41 05	
2	<i>eP·Z'</i> <i>eS·E</i> <i>L·NE</i> $\Delta = 19^\circ$ . Mid Atlantic Ridge.	22 00 49 04 28 05,5	
4	<i>eP·Z'</i> $\Delta = 58^\circ$ . Aleutian Islands.	2 25 53	
4	<i>iP·Z'</i> $\Delta = 76^\circ$ . $h = 100$ km. Japan.	4 04 48 C	
4	<i>eP·Z'</i> <i>e(S)·NE</i> $\Delta = 7^\circ$ . Jan Mayen.	16 26 59 25.4	
5	<i>ePP·Z'</i> <i>ePKKP·Z'</i> <i>eS·NE</i> <i>eSS·NE</i> <i>L·NE</i> $\Delta = 106^\circ$ . Halmahera.	14 07 16 19 26 15.4 22.7 38	
6	<i>L·NE</i>	3 24	
6	<i>L·NE</i>	4 45	
7	<i>eP·Z'</i> $\Delta = 105^\circ$ . Celebes.	5 27 20	
7	<i>eP·Z'</i> $\Delta = 83^\circ$ . Ryukyu Islands.	16 00 22	
8	<i>iPKP·Z'Z</i> <i>ePP·Z'Z</i> <i>i(PKS)·N</i> <i>iPKKP·Z'</i> <i>i(PSP)·Z'Z</i> $\Delta = 126^\circ$ . $h = 250$ km. New Hebrides Islands.	16 52 15 D 54 07 55 34 17 01 50 D 05 47 C	
10	<i>iP·Z'</i> $\Delta = 93^\circ$ . $h = 150$ km. Peru.	0 07 30	
10	<i>ePKP·Z'</i> $\Delta = 122^\circ$ . Samoa Islands.	14 03 22	
10	<i>iP·Z'</i> $\Delta = 62^\circ$ . $h = 100$ km. Kurile Islands.	14 42 59 C	
12	<i>eP·Z'</i> <i>ePP·E</i> <i>eS·NE</i> <i>eSS·N</i>	12 01 04 02 36 06 45 08.8	
12	<i>L·E</i> $\Delta = 36^\circ$ . Macedonia.	12.7	
12	<i>e(P')·Z'</i> <i>ePP·Z'N</i> <i>ePS·Z'NE</i> <i>L·NE</i> $\Delta = 115^\circ$ . New Britain.	20 <sup>b</sup> 49 <sup>m</sup> 44 <sup>s</sup> 50 34 21 00 09 25	
15	<i>eP·Z'</i> $\Delta = 57^\circ$ . Aleutian Islands.	9 30 49	
17	<i>eP·Z'</i> $\Delta = 43^\circ$ . Crete.	23 50 01	
20	<i>eP·Z'</i> $\Delta = 69^\circ$ . Japan.	13 48 04	
20	<i>eP·Z'</i> <i>iI·Z'ZN</i> <i>ePcP·Z</i> <i>iS·NE</i> <i>eSS·NE</i> <i>L·NE</i> <i>M·NE</i> $\Delta = 69^\circ$ . $M = 7\frac{1}{2}$ . Japan.	17 18 40 18 45 19 12 27 48 32 17 39.4 50	20 <sup>s</sup> . $N: 70 \mu$ , $E: 150 \mu$ .
20	<i>eP·Z'</i> $\Delta = 57^\circ$ . Mid Atlantic Ridge.	23 38 09	
21	<i>iP·Z'</i> <i>eS·E</i> <i>L·NE</i> $\Delta = 70^\circ$ . Japan.	0 46 03 C 55 11 1 12	
21	<i>iP·Z'</i> $\Delta = 70^\circ$ . Japan.	9 29 33 D	
22	<i>L·NE</i>	13 55	
23	<i>eP·Z'</i> <i>eI·Z'Z</i> <i>iS·E</i> <i>iPS·E</i> <i>L·NE</i> $\Delta = 70^\circ$ . Japan.	0 34 37 in the time break. 34 43 43 20 43 35 55	
23	<i>iP·Z'</i> $\Delta = 70^\circ$ . Japan.	1 18 28 C	
23	<i>i·Z'</i>	1 50 55 D	
23	<i>eP·Z'</i> <i>eS·E</i> <i>L·NE</i> $\Delta = 70^\circ$ . Japan.	22 33 52 43 04 58	
23	<i>e·Z'</i>	23 46 25	



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March		March	
24	<i>iP·Z'</i> 6 <sup>h</sup> 04 <sup>m</sup> 57 <sup>s</sup> D $\Delta = 63^\circ$ . Kurile Islands.	30	<i>eS·NE</i> 23 <sup>m</sup> 59 <sup>s</sup> Aftershock.
24	<i>e·Z'</i> 11 32 25	31	<i>eP·Z'</i> 20 <sup>h</sup> 07 <sup>m</sup> 01 <sup>s</sup> <i>eS·N</i> 15 41 <i>L·NE</i> 30 $\Delta = 65^\circ$ . Gulf of California.
27	<i>ePKP·Z'</i> 4 07 30 <i>iPP·Z'</i> 09 03 $\Delta = 123^\circ$ . New Hebrides Islands.	April	
27	<i>e·Z'</i> 5 30 08	1	<i>L·NE</i> 14 36.2
27	<i>ePKP·Z'</i> 9 16 53 <i>iPP·Z'</i> 18 28 $\Delta = 123^\circ$ . New Hebrides Islands.	2	<i>eP·Z'</i> 22 45 06 $\Delta = 52^\circ$ . Iran.
27	<i>eP·Z'</i> 20 26 54 <i>ePP·Z'</i> 29 24 <i>L·NE</i> 50 $\Delta = 70^\circ$ . Mexico.	2	<i>eP·Z'</i> 23 42 18 Repetition.
27	<i>iPKP·Z'</i> 23 47 42 C <i>ePP·Z'</i> 51 08 $\Delta = 147^\circ$ . $h = 250$ km. New Zealand.	3	<i>e(P)·Z'</i> 8 04 30 <i>e·Z'</i> 04 42 Iceland?
28	<i>eP·Z'</i> 0 25 11 <i>eS·N</i> 34 44 <i>eSKS·E</i> 35 14 <i>L·NE</i> 48 $\Delta = 73^\circ$ . Panama.	5	<i>ePKP·Z'</i> 12 55 29 <i>ePKS·Z'</i> 58 55 $\Delta = 131^\circ$ . Sandwich Group.
29	<i>iPKP·Z'</i> 6 50 02 C <i>i·Z'</i> 50 07 <i>ePP·Z'Z</i> 51 55 <i>ePS·N</i> 7 02 05 <i>eSS·E</i> 09 05 <i>L·NE</i> 33 $\Delta = 127^\circ$ . New Hebrides Islands.	5	<i>eP·Z'</i> 17 27 38 $\Delta = 9^\circ$ . North Atlantic Ocean.
29	<i>L·NE</i> 8 21	7	<i>ePKP·Z'</i> 14 05 45 <i>eSKP·Z'</i> 08 18 $\Delta = 131^\circ$ . $h = 500$ km. Fiji Islands.
30	<i>ePP·Z'Z</i> 11 10 23 $\Delta = 123^\circ$ . New Hebrides Islands.	7	<i>e·Z'</i> 14 40 35
30	<i>iP·Z'ZNE</i> 12 59 32 C <i>iS·Z'ZNE</i> 59 58 $\Delta = 2^\circ$ . Denmark Strait.	8	<i>iPKP·Z'</i> 0 14 43 <i>epPKP·Z'</i> 15 36 <i>ePP·Z'</i> 16 45 $\Delta = 128^\circ$ . 200 km. Tonga Islands.
30	<i>e(P)·Z'</i> 13 39 28 Aftershock?	10	<i>iP·Z'</i> 20 35 42 C $\Delta = 55^\circ$ . Aleutian Islands.
30	<i>e(P)·Z'</i> 15 00 24 <i>e(S)·Z'</i> 00 45 Aftershock?	13	<i>iP·Z'</i> 12 48 46 D $\Delta = 69^\circ$ . Mexico.
30	<i>e(P)·Z'</i> 15 38 40 Aftershock?	15	<i>L·NE</i> 4 22
30	<i>eP·Z'NE</i> 17 23 33	15	<i>eP·Z'</i> 11 49 52 $\Delta = 68^\circ$ . $h = 150$ km. Japan.
		15	<i>ePKP·Z'</i> 22 24 07 $\Delta = 123^\circ$ . New Hebrides Islands.
		18	<i>iP·Z'</i> 8 18 37 D $\Delta = 80^\circ$ . $h = 450$ km. Bonin Islands.
		19	<i>e·Z'</i> 18 38 36 <i>e·Z'</i> 38 48



### Scoresbysund 1960

April

- 21 *L·E* 3<sup>h</sup>07<sup>m</sup>
- 23 *e·Z'* 20<sup>h</sup>10<sup>m</sup>42<sup>s</sup>
- 24 *eP·Z'* 0 08 08  
 $\Delta = 57^\circ$ . Aleutian Islands.
- 24 *eP·Z'* 3 35 53  
(*i*)*PKP·Z'* 39 52 in the time break.  
 $\Delta = 110^\circ$ .  $h = 600$  km. Java Sea.
- 24 *iP·Z'Z* 12 24 36  
*eS·N* 32.0  
*L·NE* 46  
 $\Delta = 60^\circ$ . Iran.
- 25 *eP·Z'* 15 02 47  
 $\Delta = 49^\circ$ . Kodiak Island.
- 28 *ePKP·Z'* 2 29 24  
*ePKS·Z'* 32 43  
 $\Delta = 130^\circ$ . Sandwich Group.
- 28 *eP·Z'* 16 41 34  
 $\Delta = 44^\circ$ . Greece.
- 29 *iPKP·Z'* 2 34 43  
*ePKS·Z'* 38 03  
 $\Delta = 130^\circ$ . Sandwich Group.
- 29 *ePP·Z'* 19 50 35  
*L·NE* 20 32  
 $\Delta = 106^\circ$ . Celebes.
- 30 *ePP·Z'* 4 20 10  
 $\Delta = 106^\circ$ . Celebes.

May

- 1 *i·Z'* 17 44 59
- 2 *eP·Z'* 8 54 12  
 $\Delta = 74^\circ$ . Mid Atlantic Ridge.
- 2 *ePP·Z'* 12 28 39  
 $\Delta = 106^\circ$ . Celebes.
- 3 *eP·Z'* 7 09 04  
 $\Delta = 58^\circ$ . Iran.
- 3 *iP·Z'* 22 34 23  
 $\Delta = 77^\circ$ .  $h = 150$  km. Japan.
- 5 *iP·Z'* 11 35 50 C  
 $\Delta = 58^\circ$ . Kamchatka.
- 6 *iP·Z'* 18 57 06 C  
 $\Delta = 56^\circ$ . Kamchatka.

May

- 8 *iP·Z'* 14<sup>h</sup>39<sup>m</sup>50<sup>s</sup> D  
 $\Delta = 64^\circ$ . Kurile Islands.
- 9 *iP·Z'* 0 23 08 C  
 $\Delta = 77^\circ$ . Ryukyu Islands.
- 9 *eP·Z'* 16 38 08  
 $\Delta = 65^\circ$ . Atlantic Ocean.
- 10 *iP·Z'* 23 29 28 D  
*ipP·Z'* 29 49  
 $\Delta = 74^\circ$ .  $h = 100$  km. Japan.
- 12 (*e*)*P·Z'Z* 22 44 03 in the time break.  
*iS·NE* 53 33  
*L·NE* 23.1  
 $\Delta = 73^\circ$ . Panama.
- 13 *iP·Z'ZNE* 16 16 21  
*i·Z'ZNE* 16 37  
*iS·NE* 23 40  
*eScS·E* 26 15  
*L·NE* 32  
 $\Delta = 52^\circ$ . Alaska Peninsula.
- 14 *eP·Z'* 22 29 41 C
- 14 *ePn·Z'* 23 58 09  
*iP·Z'* 58 21 C  
*eSn·Z'* 59 18  
 $\Delta = 6^\circ$ . Iceland.
- 15 *eP·Z'* 13 42 46  
 $\Delta = 82^\circ$ . Formosa.
- 15 *eP·Z'* 21 46 24  
 $\Delta = 53^\circ$ . Alaska Peninsula.
- 17 *iP·Z'* 9 22 10 D  
*L·NE* 24  
 $\Delta = 11^\circ$ . Svalbard.
- 18 (*i*)*P·Z'Z* 6 47 05 in the time break.  
*i·Z'Z* 47 22 C  
*eS·NE* 57 01  
*L·NE* 7 14  
 $\Delta = 79^\circ$ . Ryukyu Islands.
- 18 *eP·Z'* 8 51 07  
 $\Delta = 59^\circ$ . Persian Gulf.
- 19 *iP·Z'* 2 16 35  
*epP·Z'* 17 11  
*eS·NE* 24 28  
 $\Delta = 58^\circ$ .  $h = 200$  km. Hindu Kush.
- 19 *ePP·ZE* 10 30.8  
*e(PS)·E* 40.2



### Scoresbysund 1960

May	
19	<i>L·NE</i> 11 <sup>h</sup> .2 $\Delta = 105^\circ$ . Indian Ocean.
21	<i>eP·Z'</i> 6 <sup>h</sup> 48 <sup>m</sup> 48 <sup>s</sup> $\Delta = 70^\circ$ . Greece.
21	<i>ePP·ZNE</i> 10 22 26 <i>eSKKS·E</i> 29 31 <i>e·NE</i> 30 16 <i>ePS!NE</i> 32 06 <i>iSS·NE</i> 38 16 <i>M·NE</i> 11 07 20 <sup>s</sup> : N: 180 $\mu$ , E: 135 $\mu$ . $\Delta = 114^\circ$ . M = 8. Chile.
22	<i>ePP·ZNE</i> 10 50 11 <i>ePS·NE</i> 59 59 <i>L·NE</i> 11 28 $\Delta = 114^\circ$ . Chile.
22	<i>ePP·ZNE</i> 10 52 19 <i>ePPP·E</i> 54 52 <i>iPS!NE</i> 11 02 12 <i>iSS!NE</i> 08 17 <i>eSSS·NE</i> 12 17 $\Delta = 114^\circ$ . Chile.
22	<i>eP·Z'ZE</i> 19 10 45 <i>ePKP·Z'</i> 14 34 <i>ePP·Z'ZNE</i> 15 32 <i>iPS·NE</i> 25 19 <i>eSS·NE</i> 31 07 $\Delta = 114^\circ$ . Chile.
22	<i>ePKP·Z'</i> 19 29 19 <i>ePP·Z'</i> 30 04 $\Delta = 114^\circ$ . Chile.
22	<i>iPP·Z'</i> 19 30 49 The main shock. Trace partly disappeared. Mingled with previous shocks. $\Delta = 114^\circ$ . Chile.  Hereafter several trains of surfacewaves.
23	<i>eP·Z'</i> 6 47 13 <i>e(S)·Z'</i> 48 00 <i>eL·NE</i> 48 22 $\Delta = 4^\circ$ . SW of the station.
24	<i>ePKP·Z</i> 15 06 44 <i>ePKS·NE</i> 10 34 <i>L·NE</i> 59 $\Delta = 153^\circ$ . New Zealand.
25	<i>ePKP·Z'Z</i> 8 53 36 <i>ePP·ZE</i> 55 09 <i>ePS·N</i> 9 05 16 <i>L·NE</i> 30 $\Delta = 122^\circ$ . Chile.

May	
25	<i>iP·Z'</i> 19 <sup>h</sup> 48 <sup>m</sup> 48 <sup>s</sup> <i>i·Z'</i> 48 52 $\Delta = 4^\circ$ . North of Iceland.
26	<i>eP·ZNE</i> 5 17 25 <i>ePP·NE</i> 18 52 <i>eS·NE</i> 23 18 <i>eSS·N</i> 26 05 <i>L·NE</i> 30 $\Delta = 38^\circ$ . Greece.
28	<i>e·Z'</i> 16 22 48 Surface waves from near shock.
29	<i>ePS·NE</i> 8 08 40 <i>eSS·NE</i> 14.8 <i>L·NE</i> 34 $\Delta = 114^\circ$ . Chile.
31	<i>eP·NE</i> 11 12 18 No Z-record. <i>eS·NE</i> 20 10 <i>eScS·NE</i> 21 58 <i>L·NE</i> 29 $\Delta = 57^\circ$ . Lesser Antilles.
June	
2	<i>ePS·NE</i> 6 25 25 <i>eSKKS·NE</i> 28 25 <i>L·NE</i> 7 05 $\Delta = 123^\circ$ . Chile.
2	<i>ePS·NE</i> 8 16 45 <i>eSS·NE</i> 23.1 <i>L·NE</i> 42 $\Delta = 115^\circ$ . New Britain.
3	<i>eS·NE</i> 16 37 46 $\Delta = 67^\circ$ . Japan.
4	<i>L·NE</i> 3 00
6	<i>iP·ZNE</i> 1 27 32 D <i>iS·N</i> 35 26 <i>eSS·E</i> 39.3 <i>L·NE</i> 46 $\Delta = 57^\circ$ . California.
6	<i>ePKP·Z</i> 6 14 34 <i>e·NE</i> 15 48 <i>ePP·ZNE</i> 16 12 <i>eSKS·NE</i> 21 42 <i>L·NE</i> 56 <i>M·NE</i> 7 03 20 <sup>s</sup> : N: 35 $\mu$ , E: 25 $\mu$ . $\Delta = 122^\circ$ . M = 7 <sup>1</sup> / <sub>4</sub> . Chile.
7	<i>iP·ZN</i> 13 07 02 C <i>iS·N</i> 14 45 $\Delta = 56^\circ$ . Kamchatka.



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### Scoresbysund 1960

June

8	<i>eP·ZN</i>	16 <sup>h</sup> 26 <sup>m</sup> 53 <sup>s</sup>	
	<i>ePP·ZN</i>	28 20	
	<i>iS·E</i>	32 37	
	<i>SS!·E</i>	35.3	
	<i>L·NE</i>	36.2	
	$\Delta = 37^\circ$ . Atlantic Ocean.		
9	<i>ePKS·N</i>	11 46 21	
	<i>ePS·N</i>	55.5	
	<i>eSS·N</i>	12 02.9	
	<i>L·NE</i>	28	
	$\Delta = 127^\circ$ . New Hebrides Islands.		
9	<i>eP·Z'Z</i>	17 54 19	
	<i>eS·NE</i>	59 35	
	<i>L·N</i>	18 03	
	$\Delta = 33^\circ$ . Azores.		
10	<i>eSKKS·N</i>	21 39.4	
	<i>ePS·NE</i>	42 35	
	<i>L·NE</i>	22 13	
	$\Delta = 123^\circ$ . Samoa Islands.		
11	<i>iP·Z'</i>	0 48 00	C
	<i>iSKS·NE</i>	58 00	
	$\Delta = 97^\circ$ . $h = 300$ km. Bolivia.		
11	<i>ePKP·Z'Z</i>	15 32 59	
	<i>ePP·NE</i>	34 21	
	<i>ePS·NE</i>	44 07	
	<i>L·NE</i>	16 09	
	$\Delta = 118^\circ$ . New Guinea.		
11	<i>eP'·Z'</i>	16 56 38	
	<i>ePS·N</i>	17 07 41	
	<i>L·NE</i>	32	
	Repetition.		
12	<i>iPP·Z'</i>	4 17 23	C
	$\Delta = 131^\circ$ . $h = 600$ km. Fiji Islands.		
13	<i>L·NE</i>	6 51	
15	<i>eP·Z'Z</i>	15 47 57	
	<i>eS·NE</i>	57 01	
	<i>L·NE</i>	16 11	
	$\Delta = 69^\circ$ . Japan.		
16	<i>eP·Z</i>	16 45 22	
	<i>L·N</i>	17 01	
	$\Delta = 55^\circ$ . Aleutian Islands.		
19	<i>e(P)·Z'</i>	11 57 52	
	<i>e(L)·Z'ZN</i>	12 00.8	

June

19	<i>iP·Z'</i>	17 <sup>h</sup> 29 <sup>m</sup> 45 <sup>s</sup>	D
	$\Delta = 80^\circ$ . Bonin Islands.		
20	<i>ePKP·Z'</i>	2 19 56	
	<i>ePP·Z'ZN</i>	20 47	
	<i>ePS·N</i>	30 31	
	<i>eSS·N</i>	36.4	
	<i>L·N</i>	3.0	
	$\Delta = 115^\circ$ . Chile.		
20	<i>ePKP·Z'</i>	13 18 30	
	<i>ePP·Z'ZNE</i>	19 24	
	<i>ePS·NE</i>	29 10	
	<i>eSS·N</i>	35.2	
	<i>L·E</i>	54	
	$\Delta = 116^\circ$ . Chile.		
21	<i>e·Z'</i>	8 07.2	
21	<i>L·NE</i>	9 25	
22	<i>eP·Z'ZNE</i>	9 46 01	C
	<i>L·ZNE</i>	46.5	
	$\Delta = 3^\circ$ . SE of the station.		
22	<i>eP·Z'</i>	10 22 26	
	<i>L·NE</i>	22.7	
	$\Delta = 3^\circ$ . SE of the station.		
22	<i>eP·Z'ZNE</i>	13 59 15	C
	<i>L·ZNE</i>	14 00.0	
	$\Delta = 3^\circ$ . SE of the station.		
22	<i>i!P·Z'</i>	16 23 49	C
	$\Delta = 76^\circ$ . Arabian Sea.		
23	<i>eP·Z'</i>	23 38 32	in the time break.
	<i>ePcP·Z'</i>	39 30	
	$\Delta = 56^\circ$ . Aleutian Islands.		
25	<i>L·E</i>	15 48	
29	<i>L·NE</i>	2 58	
29	<i>L·NE</i>	5 55	
29	<i>eP·Z</i>	10 28 14	
	<i>e·Z</i>	28 23	
	<i>eS·NE</i>	32 33	
	<i>L·N</i>	35.4	
	$\Delta = 25^\circ$ . Atlantic Ocean.		
29	<i>L·NE</i>	17 33	

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