

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

**N O R D**

$\varphi = 81^{\circ}36' N.$      $\lambda = 16^{\circ}41' W.$      $h = 35 m.$

Lithologic foundation: calcareous greywacke

**Instruments**

Willmore.    Z.     $T_p = 1 \text{ sec}, T_g = 1/4 \text{ sec.}$     No attenuation.

Strobach.    N and E.     $T = 6 \text{ sec}, \nu = 15:1, V_0 = 500.$     (Belongs to Geophysikalisches Institut, Hamburg.)

**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. For N and E the amplitudes given are single ground amplitudes. For Z trace amplitudes are given. + indicates ground motion towards the north, towards the east, or upwards. — indicates the opposite direction.

**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.

Nord 1959

January

1	<i>iPn·ZNE</i>	02 <sup>h</sup> 07 <sup>m</sup> 31 <sup>s</sup>	-
	<i>iP*·Z</i>	07 33	
	<i>iPg·Z</i>	07 37	
	<i>iS·NE</i>	07 59	
	$\Delta = 3^\circ$ . Greenland.		
3	<i>iP·Z</i>	08 08 05	+
	$\Delta = 48^\circ$ . Turkey.		
5	<i>eP·Z</i>	05 04 35	
	<i>iPP·Z</i>	04 43	
	<i>iPPP·Z</i>	04 45	
	<i>iS·Z</i>	07 49	
	$\Delta = 18^\circ$ . Baffin Island.		
6	<i>eP·Z</i>	12 14 05	Faint.
	$\Delta = 46^\circ$ . Fox Islands.		
6	<i>eP·Z</i>	14 37 14	
	$\Delta = 47^\circ$ . Turkey.		
7	<i>eP·Z</i>	05 23 19	
	$\Delta = 61^\circ$ . Iran.		
7	<i>eP·Z</i>	22 30 36	
	$\Delta = 48^\circ$ . Turkey		
8	<i>iP·Z</i>	01 44 47	+
	<i>iS·E</i>	53 38	-
	$\Delta = 68^\circ$ . $h = 100$ km. Lesser Antilles.		
8	<i>eP·Z</i>	16 07 28	
	$\Delta = 88^\circ$ . Pacific Ocean.		
8	<i>e·Z</i>	20 52 11	
10	<i>i·Z</i>	18 42 47	
11	<i>iP·Z</i>	04 36 04	
	$\Delta = 48^\circ$ . Turkey.		
11	<i>i·Z</i>	05 24 04	
11	<i>iP·Z</i>	07 33 52	+
	<i>ipP·Z</i>	34 42	
	$\Delta = 73^\circ$ . $h = 200$ km. Guatemala.		
11	<i>iP·Z</i>	08 47 14	
	$\Delta = 58^\circ$ . Japan.		
11	<i>i·Z</i>	20 38 50	
11	<i>i·Z</i>	21 12 04	
12	<i>ei·Z</i>	08 44 34	
12	<i>iP·Z</i>	14 25 47	-
	$\Delta = 55^\circ$ . $h = 100$ km. Japan.		

January

12	<i>i·Z</i>	21 <sup>h</sup> 28 <sup>m</sup> 07 <sup>s</sup>	
	<i>i·Z</i>	28 30	
	Near?		
13	<i>eP·Z</i>	01 28 03	
	$\Delta = 86^\circ$ . Mariana Islands.		
13	<i>eP·Z</i>	08 45 59	
	$\Delta = 77^\circ$ . $h = 100$ km. Costa Rica.		
13	<i>e·Z</i>	09 48 34	
	Near?		
14	<i>iP·Z</i>	06 24 57	
	Near.		
15	<i>ePKP·Z</i>	21 38 30	
	$\Delta = 124^\circ$ . $h = 500$ km. Fiji Islands.		
16	<i>iP·Z</i>	01 39 44	+
	<i>iPcP·Z</i>	41 22	
	$\Delta = 47^\circ$ . Fox Islands.		
16	<i>eP·Z</i>	05 49 32	
	<i>i·Z</i>	49 33	
16	<i>eP·Z</i>	16 58 40	
	$\Delta = 43^\circ$ . Queen Charlotte Islands.		
17	<i>iP·Z</i>	03 02 42	
	$\Delta = 47^\circ$ . Turkey.		
17	<i>e·Z</i>	03 27 46	
	Near?		
17	<i>iP·Z</i>	09 37 21	-
	$\Delta = 87^\circ$ . Mindanao, Philippine Islands.		
17	<i>iP·Z</i>	22 45 00	
	Near.		
19	<i>eP·Z</i>	11 01 40	
	Near.		
19	<i>iP·Z</i>	13 50 28	
	<i>i·Z</i>	50 30	
	Near.		
22	<i>iP·ZNE</i>	5 20 38	Z: +
	<i>iS·NE</i>	28 52	
	<i>L·NE</i>	38	
	$\Delta = 61^\circ$ . Japan.		
22	<i>i·Z</i>	20 02 53	
	Near.		

### Nord 1959

January

23 *iP*·*Z* 3<sup>h</sup>20<sup>m</sup>46<sup>s</sup>  
*iS*·*Z* 22 02  
*i*·*Z* 22 03  
 $\Delta = 7^\circ$ . SW of Svalbard.

23 *iPn*·*Z* 18 21 08  
*iP\**·*Z* 21 12  
*iPg*·*Z* 21 16  
*eSn*·*Z* 21 36  
 $\Delta = 2\frac{1}{2}^\circ$ . Greenland Sea.

24 *iP*·*Z* 5 18 41 +  
*i*·*Z* 18 43  
 $\Delta = 61^\circ$ .  $h = 100$  km. Japan.

24 *i*·*Z* 16 02 51 +  
Near.

24 *iP*·*Z* 20 03 27  
*iS*·*NE* 10 06  
*L*·*NE* 16  
 $\Delta = 45^\circ$ . Azores.

24 *e*·*Z* 23 10 32

25 *e*·*Z* 0 02 49  
*e(L)*·*Z* 03 01  
Near.

26 *e*·*Z* 8 57 02  
*e(L)*·*Z* 57 12  
Near.

26 *e*·*Z* 9 57 21  
*e(L)*·*Z* 57 30  
Near.

26 *e(P)*·*Z* 10 25 08  
*e(S)*·*Z* 25 45  
 $\Delta = 3^\circ$ .

26 *iP*·*Z* 11 47 14  
 $\Delta = 48^\circ$ . Turkey.

26 *e*·*Z* 16 49 25  
*e(L)*·*Z* 49 34  
Near.

26 *iP*·*Z* 21 54 24  
 $\Delta = 70^\circ$ . Ryukyu Islands.

27 *eP*·*Z* 3 37 59  
*i*·*Z* 38 03  
*L*·*NE* 41.0  
 $\Delta = 11^\circ$ . Jan Mayen.

27 *e*·*Z* 12 09 07  
*e(L)*·*Z* 09 15

January

29 *e*·*Z* 6<sup>h</sup>27<sup>m</sup>20<sup>s</sup>  
*e*·*Z* 27 44  
Near.

29 *e*·*Z* 7 04 33  
*e*·*Z* 04 56  
Near.

29 *e*·*Z* 11 43 27  
*e*·*Z* 43 51  
Near.

29 *e*·*Z* 19 08 06  
Near.

29 *iP*·*Z* 23 27 26  
*iS*·*N* 29 46  
*L*·*NE* 30.5  
 $\Delta = 12^\circ$ . Off coast of Norway.

30 *iP*·*Z* 5 23 14  
 $\Delta = 27^\circ$ . Hudson Bay.

30 *i(P)*·*Z* 9 43 51  
*i*·*Z* 43 52  
*e(S)*·*Z* 44 15  
Near.

30 *i(P)*·*Z* 12 30 43  
*i*·*Z* 30 44  
*e(S)*·*Z* 31 07  
Repetition?

30 *e*·*Z* 14 18 48  
Near.

30 *i*·*Z* 17 58 12  
*i!*·*Z* 58 15  
Near.

30 *ePKS*·*Z* 18 28 06  
*iPP*·*Z* 30 22  
 $\Delta = 130^\circ$ . Kermadec Islands.

30 *eP*·*Z* 20 48 27  
*L*·*NE* 21 06  
 $\Delta = 55^\circ$ . Japan.

30 *iP*·*Z* 22 26 21  
*L*·*NE* 43  
 $\Delta = 55^\circ$ . Japan.

31 *e(Pn)*·*Z* 12 08 29  
*i(Pg)*·*Z* 08 44  
*e(L)*·*Z* 09 08  
Near.

### Nord 1959

February

1 *iP*·*Z* 3h22m33s +  
*epP*·*Z* 23 35  
 $\Delta = 54^\circ$ .  $h = 250$  km. Hindu Kush.

1 *i*·*Z* 6 47 31  
*e*·*Z* 47 33

1 *i*·*Z* 7 24 18

1 *i*·*Z* 13 52 28  
*e*·*Z* 52 30

2 *i(P)*·*Z* 10 02 25  
*e*·*Z* 02 39  
*i*·*Z* 02 45

2 *iP*·*Z* 19 29 27  
 $\Delta = 49^\circ$ . Crete.

3 *i*·*Z* 12 06 18  
*e*·*Z* 06 21

4 *iP*·*Z* 8 45 38

5 *e*·*Z* 0 06 41

5 *iP*·*Z* 1 12 17  
 $\Delta = 41^\circ$ . 100 km. Alaska Peninsula.

5 *iP*·*Z* 10 16 00  
 $\Delta = 61^\circ$ . Japan.

5 *i*·*Z* 22 09 22  
*i*·*Z* 09 29

5 *i*·*Z* 22 20 26  
*i*·*Z* 20 27  
 Local.

6 *eP*·*Z* 14 41 29  
*L*·*NE* 56  
 $\Delta = 47^\circ$ . Aleutian Islands.

7 *e*·*Z* 6 47 13  
*i*·*Z* 47 16

7 *iP*·*ZN* 9 49 54  
*iSKS*·*N* 10 00 22 *E* out of order.  
*iS*·*N* 00 46  
*eSS*·*N* 06.8  
*eSSS*·*N* 10.3  
*L*·*N* 20  
 $\Delta = 90^\circ$ . Peru.

7 *eP*·*Z* 7 24 02  
 $\Delta = 82^\circ$ . Mariana Islands.

February

7 *e*·*Z* 7h06m54s  
*e*·*Z* 07 10

8 *e*·*Z* 0 56 27

8 *e*·*Z* 0 58 21

8 *e*·*Z* 1 01 53

8 *e*·*Z* 1 05 59

8 *iP*·*Z* 1 09 01 +  
*L*·*E* 18  
 $\Delta = 33^\circ$ . North Atlantic Ocean.

8 *e*·*Z* 3 19 42  
*e*·*Z* 20 03

9 *iP*·*Z* 4 51 16  
*eSSS*·*N* 5 02.3  
*L*·*NE* 05.8  
 $\Delta = 48^\circ$ . Aleutian Islands.

9 *i*·*Z* 7 36 36

10 *i*·*Z* 17 06 51  
*i*·*Z* 06 54  
*e*·*Z* 07 06  
 $\Delta$  about  $1^\circ$ .

11 *i*·*Z* 19 52 09  
*i*·*Z* 52 11  
 Local.

12 *i(Pn)*·*Z* 1 52 42  
*i(Pg)*·*Z* 52 45  
*i(Sn)*·*Z* 53 02  
 $\Delta$  about  $1\frac{1}{2}^\circ$ .

14 *iP*·*Z* 22 36 37 +  
 $\Delta = 66^\circ$ . India-Burma border.

15 *eP*·*Z* 4 11 01  
 $\Delta = 48^\circ$ . Sinkiang province, China.

15 *ePKP*·*Z* 5 02 07  
*ePPP*·*NE* 07 51  
*eSS*·*E* 24.3  
*L*·*NE* 50  
 $\Delta = 140^\circ$ . Sandwich Group.

15 *iP*·*Z* 5 56 42 +  
 $\Delta = 48^\circ$ . Turkey.

16 *iP*·*Z* 18 06 19  
*i(PeP)*·*Z* 06 39  
 $(\Delta = 74^\circ$ . Nicaragua?)

### Nord 1959

**February**

17	<i>e(P)·Z</i>	11 <sup>h</sup> 31 <sup>m</sup> 08 <sup>s</sup>	
	<i>i(S)·Z</i>	31 39	
	$\Delta = 3^\circ$ .		
17	<i>iP·Z</i>	12 11 35	
	$\Delta = 47^\circ$ .	Aleutian Islands.	
17	<i>i(P)·Z</i>	15 35 06	
	<i>i(S)·Z</i>	35 35	
	$\Delta = 3^\circ$ .		
19	<i>e(P)·Z</i>	8 31 21	
19	<i>e(P)·Z</i>	16 27 05	
19	<i>i(P)·Z</i>	18 42 08	
	<i>e(S)·Z</i>	42 28	
	$\Delta = 2^\circ$ .		
20	<i>i·Z</i>	12 36 55	
	<i>i·Z</i>	36 57	
20	<i>i·Z</i>	12 52 58	
	<i>i·Z</i>	53 00	
20	<i>i·Z</i>	15 11 49	
	<i>i·Z</i>	11 51	
20	<i>iP·Z</i>	18 27 39	
	$\Delta = 72^\circ$ .	$h = 150$ km. Guatemala.	
21	<i>iPn·Z</i>	16 40 05	
	<i>eP*·Z</i>	40 10	
	<i>iPg·Z</i>	40 14	
	<i>iSn·Z</i>	40 39	
	<i>iS*·Z</i>	40 43	
	<i>i·Z</i>	40 45	
	<i>iSg·Z</i>	40 49	
	$\Delta = 2^\circ.8$ .		
22	<i>i(P)·Z</i>	9 45 35	
	<i>i(S)·Z</i>	46 03	
	$\Delta = 2^\circ.5$ .		
23	<i>iP·Z</i>	10 39 28	
	$\Delta = 46^\circ$ .	Kamchatka.	
23	<i>i!P·Z</i>	11 51 11	-
	<i>iP·E</i>	51 11	
	<i>i(S)·E</i>	51 26	
	Local.		
23	<i>e·Z</i>	14 52 42	
23	<i>eP·Z</i>	16 13 32	
	$\Delta = 49^\circ$ .	Kurile Islands.	
24	<i>e·Z</i>	18 25 57	

**February**

26	<i>iP·Z</i>	7 <sup>h</sup> 02 <sup>m</sup> 26 <sup>s</sup>	
	<i>iS·ZNE</i>	04 17	
	<i>L·NE</i>	05.2	
	$\Delta = 10^\circ$ .	Eastern Greenland.	
27	<i>i(P)·Z</i>	10 01 12	
	<i>i·Z</i>	01 30	
27	<i>i(P)·Z</i>	17 26 47	
	<i>i·Z</i>	27 13	
27	<i>iP·Z</i>	21 07 42	
	$\Delta = 70^\circ$ .	Ryukyu Islands.	

**March**

1	<i>iP·Z</i>	0 33 23	
	<i>L·NE</i>	34.7	15 <sup>s</sup> decreasing to 8 <sup>s</sup>
	$\Delta = 8^{1/2}^\circ$ .	SSW of Svalbard.	
1	<i>i·Z</i>	3 05 47	
1	<i>eP·Z</i>	17 02 48	
	<i>eSKS·N</i>	13 12	
	<i>ePS·E</i>	15 32	
	<i>e·N</i>	16 24	
	<i>L·E</i>	32.3	
	$\Delta = 98^\circ$ .	$h = 100$ km. New Guinea.	
2	<i>e·Z</i>	10 02 53	
	<i>i·Z</i>	02 55	
	<i>e·Z</i>	02 57	
2	<i>i·Z</i>	15 08 52	
2	<i>iP·Z</i>	16 00 43	+
	$\Delta = 54^\circ$ .	$h = 200$ km. Hindu Kush.	
3	<i>e·Z</i>	7 49 50	
3	<i>i·Z</i>	9 07 56	
	<i>i·Z</i>	08 17	
3'	<i>e·Z</i>	12 16 04	
	<i>i·Z</i>	16 08	
	<i>e·Z</i>	16 13	
4	<i>iP·Z</i>	19 09 52	
	$\Delta = 118^\circ$ .	$h = 100$ km. Tonga Islands.	
4	<i>iP·Z</i>	20 10 14	
	$\Delta = 81^\circ$ .	Andaman Islands.	
4	<i>e·Z</i>	20 14 04	
5	<i>eP·Z</i>	23 08 38	
	$\Delta = 92^\circ$ .	$h = 100$ km. Sumatra.	

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March

6	<i>i</i> · <i>Z</i>	8 <sup>h</sup> 59 <sup>m</sup> 42 <sup>s</sup>	
6	<i>i</i> · <i>Z</i>	12 23 37	
7	<i>i</i> · <i>Z</i>	7 46 31	
	<i>i</i> · <i>Z</i>	46 34	
9	<i>i</i> · <i>Z</i>	9 13 50	
9	<i>i</i> · <i>Z</i>	17 52 24	
	<i>i</i> · <i>Z</i>	52 45	
9	<i>iP</i> · <i>Z</i>	18 54 09	
	<i>epP</i> · <i>Z</i>	54 24	
		$\Delta = 57^\circ$ . <i>h</i> about 60 km.	Japan.
10	<i>e</i> · <i>Z</i>	7 46 12	
10	<i>i</i> · <i>Z</i>	9 01 01	
10	<i>i</i> · <i>Z</i>	10 43 31	
	<i>i</i> · <i>Z</i>	43 51	
11	<i>iP</i> · <i>Z</i>	12 34 16	
	<i>iS</i> · <i>Z</i>	34 54	
11	<i>e</i> · <i>Z</i>	13 29 03	
11	<i>iP</i> · <i>Z</i>	18 32 40	
	<i>iS</i> · <i>Z</i>	33 39	
		$\Delta = 5\frac{1}{2}^\circ$ .	Svalbard.
16	<i>e</i> · <i>Z</i>	20 08 02	
16	<i>e</i> · <i>Z</i>	20 38 16	
16	<i>i</i> · <i>Z</i>	22 00 28	
	<i>i</i> · <i>Z</i>	00 56	
17	<i>iP</i> · <i>Z</i>	8 36 34	
	<i>iS</i> · <i>NE</i>	45 41	
	<i>L</i> · <i>NE</i>	57	
		$\Delta = 69^\circ$ .	Ryukyu Islands.
17	<i>iP</i> · <i>Z</i>	22 02 42	
	<i>iS</i> · <i>Z</i>	04 33	
		$\Delta = 10^\circ$ .	Jan Mayen.
18	<i>iP</i> · <i>Z</i>	0 52 35	
		$\Delta = 69^\circ$ .	Ryukyu Islands.
19	<i>eP</i> · <i>Z</i>	8 34 04	
	<i>iS</i> · <i>E</i>	41 01	
	<i>L</i> · <i>NE</i>	46	
		$\Delta = 48^\circ$ .	North Atlantic Ocean.
19	<i>iP</i> · <i>Z</i>	9 44 31	
		$\Delta = 35^\circ$ . <i>h</i> = 100 km.	Alaska.

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20	<i>iP</i> · <i>Z</i>	1 <sup>h</sup> 11 <sup>m</sup> 14 <sup>s</sup>	
		$\Delta = 47^\circ$ .	Kamchatka.
20	<i>i</i> · <i>Z</i>	14 28 08	
21	<i>e</i> · <i>Z</i>	4 35 27	
21	<i>e</i> · <i>Z</i>	9 54 23	
22	<i>e</i> · <i>Z</i>	8 34 04	
22	<i>e(P)</i> · <i>Z</i>	10 00 14	
	<i>e(S)</i> · <i>Z</i>	00 42	
23	<i>eP</i> · <i>Z</i>	7 19 38	
	<i>eS</i> · <i>NE</i>	27 13	
	<i>L</i> · <i>NE</i>	37	
		$\Delta = 53^\circ$ .	Nevada.
23	<i>e</i> · <i>Z</i>	14 15 05	
23	<i>e</i> · <i>Z</i>	23 24 47	
24	<i>e</i> · <i>Z</i>	3 22 33	
24	<i>e</i> · <i>Z</i>	4 05 30	
24	<i>e</i> · <i>Z</i>	8 18 26	
24	<i>e</i> · <i>Z</i>	8 47 36	
24	<i>e</i> · <i>Z</i>	8 58 42	
24	<i>e(P)</i> · <i>Z</i>	9 40 20	
	<i>e(S)</i> · <i>Z</i>	40 44	
24	<i>i</i> · <i>Z</i>	12 26 24	
25	<i>e</i> · <i>Z</i>	2 28 25	
25	<i>e(P)</i> · <i>Z</i>	3 02 14	
	<i>e(S)</i> · <i>Z</i>	02 36	
25	<i>e(P)</i> · <i>Z</i>	4 22 47	
	<i>e(S)</i> · <i>Z</i>	23 15	
25	<i>e(P)</i> · <i>Z</i>	4 57 56	
	<i>e(S)</i> · <i>Z</i>	58 25	
25	<i>eP</i> · <i>Z</i>	6 13 50	
		$\Delta = 60^\circ$ . <i>h</i> = 100 km.	W. Pakistan.
25	<i>e</i> · <i>Z</i>	6 40 27	
25	<i>iP</i> · <i>Z</i>	6 57 32	trace ampl. 20 mm.
	<i>eS</i> · <i>N</i>	57 37	no phase on <i>E</i> .
25	<i>e</i> · <i>Z</i>	9 16 15	

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25	<i>e</i> · <i>Z</i>	13 <sup>h</sup> 50 <sup>m</sup> 19 <sup>s</sup>
25	<i>e</i> · <i>Z</i>	14 56 21
25	<i>e</i> · <i>Z</i>	16 45 45
25	<i>e</i> · <i>Z</i>	19 37 54
25	<i>e</i> · <i>Z</i>	21 21 15
26	<i>i</i> · <i>Z</i>	0 52 03
26	<i>i</i> · <i>Z</i>	1 16 13
26	<i>e</i> · <i>Z</i>	1 42 54
26	<i>i</i> ( <i>P</i> )· <i>Z</i>	3 19 57
	<i>i</i> ( <i>S</i> )· <i>Z</i>	20 21
26	<i>e</i> ( <i>P</i> )· <i>Z</i>	9 20 45
	<i>e</i> ( <i>S</i> )· <i>Z</i>	21 15
26	<i>e</i> · <i>Z</i>	11 07 51
26	<i>e</i> · <i>Z</i>	12 11 05
27	<i>e</i> · <i>Z</i>	7 12 19
27	<i>i</i> · <i>Z</i>	7 12 46 —
	$\Delta = 67^\circ$ . $h = 150$ km. Lesser Antilles.	
27	<i>e</i> · <i>Z</i>	10 59 07
27	<i>i</i> · <i>Z</i>	23 49 04
28	<i>e</i> · <i>Z</i>	0 56 10
	<i>e</i> · <i>Z</i>	58 52
	Two shocks?	
28	<i>e</i> · <i>Z</i>	7 20 36
	<i>i</i> · <i>Z</i>	21 13
	<i>i</i> · <i>Z</i>	21 19
	$\Delta = 3^\circ?$	
29	<i>e</i> · <i>Z</i>	5 15 06
29	<i>e</i> · <i>Z</i>	11 07 05
29	<i>e</i> · <i>Z</i>	14 45 56
29	<i>i</i> · <i>Z</i>	17 49 48
29	<i>e</i> <i>P</i> · <i>Z</i>	19 18 20
	$\Delta = 52^\circ$ . $h = 300$ km? Sikhota Alin.	

March

29	<i>i</i> !· <i>Z</i>	19 <sup>h</sup> 36 <sup>m</sup> 33 <sup>s</sup>
29	<i>e</i> · <i>Z</i>	19 48 04
29	<i>i</i> <i>P</i> · <i>Z</i>	23 15 44
	$\Delta = 46^\circ$ . Greece.	
30	<i>i</i> · <i>Z</i>	7 53 41
30	<i>e</i> · <i>Z</i>	8 52 00
30	<i>e</i> · <i>Z</i>	13 32 16
	<i>i</i> · <i>Z</i>	32 48
	Japan?	
30	<i>i</i> · <i>Z</i>	21 27 32
	<i>i</i> · <i>Z</i>	27 53
31	<i>e</i> · <i>Z</i>	0 42 42
31	<i>e</i> · <i>Z</i>	4 07.6
31	<i>i</i> · <i>Z</i>	16 48 55
	<i>i</i> · <i>Z</i>	49 09
	<i>i</i> · <i>Z</i>	49 16
31	<i>i</i> ! <i>P</i> · <i>Z</i>	19 55 11
	<i>i</i> !( <i>S</i> )· <i>Z</i>	55 36
	$\Delta = 2^\circ$ .	

April

1	<i>e</i> · <i>Z</i>	0 15 07
	<i>e</i> · <i>Z</i>	16 11
1	<i>i</i> <i>P</i> · <i>Z</i>	0 43 46
	<i>e</i> <i>S</i> · <i>NE</i>	51 11
	<i>L</i> · <i>N</i>	1 02
	$\Delta = 54^\circ$ . Canary Islands.	
1	<i>e</i> · <i>Z</i>	2 36 37
1	<i>e</i> · <i>Z</i>	9 01 25
	<i>e</i> · <i>Z</i>	01 57
1	<i>e</i> <i>P</i> · <i>Z</i>	11 12 34
	$\Delta = 54^\circ$ . Canary Islands.	
1	<i>e</i> · <i>Z</i>	15 15 44
2	<i>i</i> <i>P</i> · <i>Z</i>	4 13 52
	$\Delta = 71^\circ$ . Ryukyu Islands.	
3	<i>i</i> <i>P</i> · <i>Z</i>	1 29 25
	<i>i</i> ( <i>S</i> )· <i>Z</i>	29 34
	Near.	

### Nord 1959

April

3	<i>iP·Z</i>	1 <sup>h</sup> 35 <sup>m</sup> 39 <sup>s</sup>	
	$\Delta = 47^\circ$ .	Aleutian Islands.	
3	<i>e·Z</i>	7 19 27	
	<i>i·Z</i>	19 33	
5	<i>eP·Z</i>	5 45 42	
	$\Delta = 46^\circ$ .	Aleutian Islands.	
5	<i>eP·Z</i>	10 55 12	
	$\Delta = 38^\circ$ .	France.	
5	<i>eP·Z</i>	20 09 12	
	$\Delta = 53^\circ$ .	Kurile Islands.	
8	<i>iPKP·Z</i>	1 41 52	
	<i>ePP·Z</i>	44 35	
	<i>i·Z</i>	44 37	
	$\Delta = 131^\circ$ .	$h = 400$ km. Kermadec Islands.	
8	<i>i·Z</i>	2 31 27	
8	<i>iP·Z</i>	8 18 37	+
	<i>i·Z</i>	18 39	
	Local.		
8	<i>iPKP·Z</i>	12 03 47	+
	$\Delta = 134^\circ$ .	Chile.	
9	<i>i·Z</i>	0 19 28	
	<i>i·Z</i>	19 34	
9	<i>iPKP·Z</i>	6 37 38	
	$\Delta = 127^\circ$ .	Indian Ocean.	
9	<i>iP·Z</i>	8 28 49	
	<i>eS·Z</i>	29 40	
	$\Delta = 4\frac{1}{2}^\circ$ .	NW of Isfjord, Svalbard.	
9	<i>e·Z</i>	11 33 34	
9	<i>eP·Z</i>	17 19 30	
	$\Delta = 69^\circ$ .	India-Burma border.	
9	<i>iP·Z</i>	17 48 20	
	<i>eS·N</i>	58 35	
	<i>eSS·N</i>	18 03 19	
	<i>L·NE</i>	14.5	
	$\Delta = 80^\circ$ .	South of Panama.	
10	<i>e·Z</i>	5 48 50	
10	<i>iPKP·Z</i>	6 05 28	
	<i>ipPKP·Z</i>	07 50	
	$\Delta = 123^\circ$ .	$h = 600$ km. Fiji Islands.	
10	<i>i·Z</i>	6 15 19	

April

10	<i>e·Z</i>	7 <sup>h</sup> 58 <sup>m</sup> 09 <sup>s</sup>	
10	<i>iP·Z</i>	12 09 57	
	<i>iS·Z</i>	10 23	
	$\Delta = 2^\circ$ .		
10	<i>iP·Z</i>	12 13 51	
	<i>iS·Z</i>	14 17	
	$\Delta = 2^\circ$ .		
10	<i>e·Z</i>	12 30 32	
	<i>e·Z</i>	31 33	
10	<i>eP·Z</i>	13 56 08	
	Svalbard.		
11	<i>iP·Z</i>	12 55 18	
	<i>e·Z</i>	55 55	
12	<i>iP·Z</i>	0 54 53	
	<i>iS·Z</i>	55 09	
	$\Delta = 1^\circ$ .		
12	<i>e·Z</i>	4 43 03	
12	<i>eP·Z</i>	7 05 28	
	<i>iS·Z</i>	05 59	
	$\Delta = 3^\circ$ .		
12	<i>iP·Z</i>	10 06 05	
	<i>ipP·ZNE</i>	06 31	
	<i>iS·NE</i>	15 17	
	<i>L·N</i>	35	
	$\Delta = 71^\circ$ .	$h = 100$ km. Mexico.	
12	<i>iP·Z</i>	11 10 49	
	$\Delta = 72^\circ$ .	Formosa.	
12	<i>eP·Z</i>	11 40 33	
12	<i>iP·Z</i>	18 13 21	
	<i>iS·Z</i>	13 40	
	$\Delta = 2^\circ$ .		
12	<i>L·N</i>	21 45	
13	<i>iP·Z</i>	9 06 57	
	<i>iS·Z</i>	07 17	
	$\Delta = 2^\circ$ .		
13	<i>iP·Z</i>	18 43 16	
	<i>i(PcP)·Z</i>	43 31	
	$\Delta = 70^\circ$ .	India-Burma border.	
14	<i>iP·Z</i>	1 26 32	
	<i>iS·Z</i>	26 56	
	$\Delta = 3^\circ$ .		



### Nord 1959

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14 *iP*·*Z* 1<sup>h</sup>50<sup>m</sup>41<sup>s</sup>  
*iS*·*Z* 51 05  
 Aftershock?

14 *iP*·*Z* 1 57 16  
*iS*·*Z* 57 40  
 Aftershock?

14 *eP*·*Z* 3 03 57  
*L*·*NE* 28  
 $\Delta = 67^\circ$ . Gulf of California.

14 *iP*·*Z* 7 27 51  
*iPcP*·*Z* 30 01  
 $\Delta = 39^\circ$ . Alaska Peninsula.

14 *e*·*Z* 9 08 45

14 *iPn*·*Z* 14 08 43 -  
*iP\**·*Z* 08 48  
*ePg*·*Z* 08 53  
*iSn*·*Z* 09 20  
 $\Delta = 3^\circ$ .

15 *iP*·*Z* 0 25 07 +  
 $\Delta = 57^\circ$ . Japan.

15 *e*·*Z* 4 45 40

15 *i*·*Z* 21 25 52  
*i*·*Z* 25 57  
 Local.

16 *e*·*Z* 0 17 42

16 *iP*·*Z* 7 12 47  
*iS*·*Z* 13 08  
 $\Delta = 2^\circ$ .

16 *eP*·*Z* 13 07 53  
*eS*·*Z* 08 20  
 $\Delta = 2^\circ$ .

16 *e(P)*·*Z* 16 26 48  
 $\Delta = 86^\circ$ .  $h = 100$  km. Mariana Islands.

17 *eP*·*Z* 17 01 33  
*iS*·*Z* 01 53  
 $\Delta = 2^\circ$ .

17 *eP*·*Z* 8 39 17 very weak.  
 $\Delta = 16^\circ$ . Lofoten.

18 *eP*·*Z* 3 42 11  
*eS*·*Z* 42 36  
 $\Delta = 2^\circ$ .

18 *i(P)*·*Z* 3 55 43

April

18 *eP*·*Z* 3<sup>h</sup>59<sup>m</sup>20<sup>s</sup>  
*eS*·*Z* 59 44  
 $\Delta = 2^\circ$ .

19 *eP*·*Z* 0 31 47  
*eS*·*Z* 32 12  
 $\Delta = 2^\circ$ .

19 *eP*·*Z* 11 45 51  
*eS*·*Z* 47 17  
 $\Delta = 2^\circ$ .

19 *iP*·*Z* 15 10 49  
*L*·*NE* 23  
 $\Delta = 39^\circ$ . Kodiak Island.

19 *iP*·*Z* 17 47 20 +  
 $\Delta = 46^\circ$ . Greece.

20 *iP*·*Z* 1 32 00  
*iS*·*Z* 32 21  
 $\Delta = 2^\circ$ .

20 *iP*·*Z* 3 08 56  
*i*·*Z* 09 00  
 Local.

20 *ePS*·*N* 3 55 11  
*eSS*·*N* 4 01 18  
 $\Delta = 104^\circ$ . New Britain.

20 *eP*·*Z* 4 33 12  
*L*·*NE* 58  
 $\Delta = 78^\circ$ . Costa Rica.

21 *iP*·*Z* 20 04 39 +  
*iS*·*ZNE* 05 06  
 $\Delta = 2\frac{1}{2}^\circ$ . Greenland Sea.

22 *e*·*Z* 3 09 49

22 *eP*·*Z* 4 09 27  
*iS*·*Z* 09 54  
 $\Delta = 3^\circ$ .

22 *iP*·*Z* 11 03 15  
*ePP*·*Z* 04 58  
 $\Delta = 45^\circ$ .  $h = 100$  km. Aleutian Islands.

22 *eP*·*Z* 13 51 12  
*eS*·*Z* 51 44  
 $\Delta = 3^\circ$ .

23 *e*·*Z* 2 05 54

24 *iP*·*Z* 4 02 54  
*i*·*Z* 02 57  
 Local.

### Nord 1959

April

24 *iP·Z* 10<sup>h</sup>13<sup>m</sup>36<sup>s</sup>  
*i(S)·Z* 13 59

24 *e·Z* 10 53 20

24 *e·Z* 10 55 15

24 *e·Z* 15 55 43

24 *iPKP·Z* 18 17 10  
*iPKS·N* 20 35  
*L·N* 59  
 $\Delta = 130^\circ$ . Kermadec Islands.

25 *iP·Z* 0 35 17 -  
*i·Z* 39 24  
*L·NE* 50  
 $\Delta = 47^\circ$ . Turkey.

25 *iP·Z* 1 14 18 -  
 Repetition.

25 *i·Z* 2 32 44

25 *iP·Z* 5 47 05

25 *i·Z* 9 53 42

25 *iP·Z* 22 59 35  
 $\Delta = 58^\circ$ . Japan.

26 *iP·Z* 14 52 23 +  
 $\Delta = 36^\circ$ . Northern Italy.

26 *iP·Z* 20 51 48 +  
 Papershift.  
 $\Delta = 72^\circ$ .  $h = 150$  km. Formosa.

27 *e·Z* 4 50 45

27 *e·Z* 8 40 32

27 *eP·Z* 13 00 35  
 $\Delta = 97^\circ$ .  $h = 200$  km. Celebes.

27 *e·Z* 13 18 08

27 *eP·Z* 13 19 30  
 $\Delta = 60^\circ$ . China.

27 *e·Z* 22 04 05

28 *iP·Z* 5 45 09  
*iS·Z* 45 40  
 $\Delta = 3^\circ$ .

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28 *iP·Z* 6<sup>h</sup>15<sup>m</sup>43<sup>s</sup>  
*i·Z* 16 02

28 *iP·ZNE* 11 21 02 Z: +  
*iS·NE* 30 26  
*L·NE* 41  
*M·NE* 56 20<sup>s</sup>, N: 40  $\mu$ , E: 40  $\mu$ .  
 $\Delta = 73^\circ$ .  $M = 6\frac{3}{4}$ . Mexico.

28 *e·Z* 23 55 33

29 *e·Z* 13 14 09

29 *iPn·Z* 17 11 47  
*e·Z* 11 50  
*e·Z* 11 52  
*iSn·Z* 12 21  
*i·Z* 12 24  
*i·Z* 12 26  
 $\Delta = 3^\circ$ .

30 *e·Z* 5 02 05

30 *iP·Z* 6 50 05  
*eS·Z* 50 45  
 $\Delta = 3\frac{1}{2}^\circ$ .

30 *ePKP·Z* 13 44 51  
*ePP·Z* 47 46  
 $\Delta = 137^\circ$ . Sandwich Group.

30 *iPn·Z* 22 41 26  
*iSn·ZNE* 42 14  
*i·ZN* 42 22  
 $\Delta = 4^\circ$ . Greenland Sea.

May

1 *eP·Z* 8 33 01  
 $\Delta = 51^\circ$ . Iran.

1 *iPn·Z* 13 10 44  
*iP\*·Z* 10 49  
*iPg·Z* 10 52  
*iSn·ZNE* 11 19  
*iS\*·ZNE* 11 22  
 $\Delta = 3^\circ$ .

2 *iP·Z* 7 54 45  
*iS·Z* 55 03  
 $\Delta = 2^\circ$ .

2 *iP·Z* 13 53 59  
*iS·Z* 54 30  
 $\Delta = 3^\circ$ .

### Nord 1959

May

3	<i>iP</i> · <i>Z</i>	4 <sup>h</sup> 52 <sup>m</sup> 59 <sup>s</sup>	
	$\Delta = 75^\circ$ .	$h = 100$ km.	Nicaragua.
4	<i>e</i> · <i>Z</i>	6 00 43	
4	<i>iP</i> · <i>ZNE</i>	7 24 01	<i>Z</i> : +, <i>N</i> : -18 $\mu$ , <i>E</i> : -4 $\mu$ .
	<i>iS</i> · <i>NE</i>	30 35	<i>N</i> : +, <i>E</i> : +.
	<i>iSS</i> · <i>NE</i>	33 50	
	<i>L</i> · <i>NE</i>	38	
	<i>M</i> · <i>NE</i>	42	20 <sup>s</sup> . <i>N</i> : 400 $\mu$ , <i>E</i> : 140 $\mu$ .
	$\Delta = 46^\circ$ .	$M = 7\frac{1}{2}$ .	Kamchatka.
4	<i>i</i> · <i>Z</i>	11 41 48	
4	<i>iP</i> · <i>Z</i>	17 29 10	
	$\Delta = 64^\circ$ .		Tibet.
4	<i>iP</i> · <i>Z</i>	23 15 37	+
	$\Delta = 2^\circ$ .		Greenland Sea.
5	<i>e</i> · <i>Z</i>	8 44 03	
5	<i>L</i> · <i>NE</i>	19 26	
5	<i>i</i> · <i>Z</i>	19 56 10	
5	<i>iP</i> · <i>Z</i>	22 55 35	
	<i>iS</i> · <i>Z</i>	55 57	
	$\Delta = 2^\circ$ .		
5	<i>iP</i> · <i>Z</i>	23 38 55	
	<i>iS</i> · <i>Z</i>	39 06	
	$\Delta = 1^\circ$ .		
6	<i>iP</i> · <i>Z</i>	7 09 25	
	<i>iS</i> · <i>Z</i>	09 45	
	$\Delta = 2^\circ$ .		
6	<i>iP</i> · <i>Z</i>	14 00 28	
	<i>i</i> · <i>Z</i>	00 30	
	$\Delta = 2^\circ$ .		Greenland Sea.
7	<i>iP</i> · <i>Z</i>	3 17 48	-
8	<i>eP</i> · <i>Z</i>	3 10 04	
	<i>eS</i> · <i>Z</i>	10 30	
	$\Delta = 2^\circ$ .		
8	<i>iP</i> · <i>Z</i>	5 26 31	
	$\Delta = 72^\circ$ .		Ryukyu Islands.
8	<i>iP</i> · <i>Z</i>	11 43 02	
	<i>eS</i> · <i>NE</i>	49 37	
	<i>L</i> · <i>NE</i>	57	
	$\Delta = 45^\circ$ .		Kamchatka.
8	<i>iP</i> · <i>Z</i>	17 33 51	+

May

9	<i>i</i> · <i>Z</i>	21 <sup>h</sup> 32 <sup>m</sup> 09 <sup>s</sup>	
10	<i>e</i> · <i>Z</i>	7 50 12	
11	<i>i(P)</i> · <i>Z</i>	4 58 02	
	<i>i(L)</i> · <i>Z</i>	58 05	
			Near.
11	<i>iP</i> · <i>Z</i>	8 49 23	
			Northern Siberia?
11	<i>e</i> · <i>Z</i>	13 53 59	
11	<i>iP</i> · <i>Z</i>	16 37 08	
	$\Delta = 45^\circ$ .		Kamtchatka.
12	<i>iP</i> · <i>NE</i>	5 05 44	Compr.
	<i>ePP</i> · <i>N</i>	07 23	
	<i>iS</i> · <i>NE</i>	12 14	
	<i>e</i> · <i>NE</i>	16 01	
	<i>L</i> · <i>NE</i>	18.6	
	$\Delta = 44^\circ$ .		Aleutian Islands. No Z-record.
12	<i>eP</i> · <i>NE</i>	10 01.3	
	<i>iPS</i> · <i>NE</i>	15 02	
	<i>L</i> · <i>NE</i>	42	
	$\Delta = 108^\circ$ .		Argentina. No Z-record.
12	<i>eP</i> · <i>N</i>	21 48.8	
	<i>eS</i> · <i>N</i>	56 10	
	<i>L</i> · <i>N</i>	22 03	
	$\Delta = 46^\circ$ .		Aleutian Islands. No Z-record.
14	<i>eP</i> · <i>NE</i>	6 45 37	
	<i>iS</i> · <i>N</i>	52 35	
	<i>iScS</i> · <i>NE</i>	55 30	
	<i>iSS</i> · <i>NE</i>	55 42	
	<i>L</i> · <i>NE</i>	7 03	
	$\Delta = 48^\circ$ .		Crete. No Z-record.
14	<i>iP</i> · <i>Z</i>	16 40 58	
	<i>eS</i> · <i>Z</i>	41 20	
	$\Delta = 2^\circ$ .		
15	<i>iP</i> · <i>Z</i>	6 25 12	
	<i>e(L)</i> · <i>Z</i>	25 20	
	$\Delta = 1^\circ$ .		
15	<i>iP</i> · <i>Z</i>	14 54 14	+
	<i>iPcP</i> · <i>Z</i>	14 24	
	$\Delta = 72^\circ$ .		Mexico.
15	<i>iP</i> · <i>Z</i>	18 29 27	
	<i>iS</i> · <i>Z</i>	29 55	
	$\Delta = 2^\circ$ .		
16	<i>eP</i> · <i>Z</i>	2 55 15	
	<i>iS</i> · <i>Z</i>	55 43	
	$\Delta = 2^\circ$ .		

### Nord 1959

<p>May</p> <p>16 <i>eP·Z</i>            4h20m00s  <i>iS·Z</i>                20 29  <math>\Delta = 2^\circ</math>.</p> <p>16 <i>eP·Z</i>            6 30 26  <i>e·Z</i>                 30 45  <i>eSKS·N</i>            41 02  <i>ePS·N</i>             43 49  <i>eSS·N</i>             49.5  <i>L·N</i>                7 04.5  <math>\Delta = 103^\circ</math>. New Britain.</p> <p>16 <i>i·Z</i>                10 58 07 +</p> <p>16 <i>iP·Z</i>             13 02 49  <i>iS·Z</i>                03 17  <math>\Delta = 2^\circ</math>.</p> <p>16 <i>i·Z</i>                15 35 47 +</p> <p>17 <i>i·Z</i>                21 05 54</p> <p>18 <i>iP·Z</i>             3 52 32 +  <i>iS·Z</i>                53 01 +  <math>\Delta = 3^\circ</math>.</p> <p>18 <i>eP·Z</i>             7 32 35  <math>\Delta = 46^\circ</math>. Aleutian Islands.</p> <p>18 <i>eP·Z</i>             9 59 13  <i>iS·Z</i>                59 41  <math>\Delta = 3^\circ</math>.</p> <p>19 <i>e·Z</i>                1 15 12</p> <p>19 <i>iP·Z</i>             2 07 56  <i>iS·Z</i>                08 14  <math>\Delta = 2^\circ</math>.</p> <p>19 <i>eP·Z</i>             15 27 27  <i>L·NE</i>               46  <math>\Delta = 57^\circ</math>. Afghanistan.</p> <p>19 <i>i·Z</i>                17 59 32  <i>i·Z</i>                 59 36  Near.</p> <p>19 <i>iP·Z</i>             18 00 31  <i>iS·Z</i>                00 59  <math>\Delta = 2^\circ</math>.</p> <p>20 <i>iP·Z</i>             11 36 27 +  <math>\Delta = 66^\circ</math>. <math>h = 450</math> km. Japan.</p> <p>20 <i>iP·Z</i>             19 57 26 -  <i>e·NE</i>               20 08  <math>\Delta = 45^\circ</math>. Georgia S.S.R.</p>	<p>May</p> <p>21 <i>eP·Z</i>             7h00m00s  <i>iPcP·Z</i>            01 38 +  <math>\Delta = 46^\circ</math>. Aleutian Islands.</p> <p>21 <i>ePP·ZNE</i>        11 53 46  <i>ePS·NE</i>            12 03 22  <i>e·NE</i>               03 37  <math>\Delta = 112^\circ</math>. Argentina.</p> <p>21 <i>eP·Z</i>             12 15 36  <i>eS·Z</i>               16 04  <math>\Delta = 2^\circ</math>.</p> <p>21 <i>e·Z</i>               19 33 37  <i>i·Z</i>                 33 39</p> <p>22 <i>i·Z</i>                4 29 10</p> <p>23 <i>i·Z</i>                8 40 40 +</p> <p>23 <i>iP·Z</i>             14 39 15  <i>iS·Z</i>                39 35  <math>\Delta = 2^\circ</math>.</p> <p>24 <i>e·Z</i>               3 30 30</p> <p>24 <i>i(S)·Z</i>           7 58 54</p> <p>24 <i>i(S)·Z</i>           8 10 28</p> <p>24 <i>iP·Z</i>             11 39 11  <math>\Delta = 67^\circ</math>. India.</p> <p>24 <i>iP·ZNE</i>        19 28 53 Dilat.  <i>e·ZN</i>               29 12  <i>epP·ZE</i>           29 19  <i>iS·NE</i>              38 08 N: -, E: -.  <i>isS·NE</i>            38 32  <i>i·E</i>                 39 14  <i>eSS·NE</i>            42 37  <i>eSSS·NE</i>          45 57  <i>L·NE</i>               51  <math>\Delta = 71^\circ</math>. <math>h = 100</math> km. Mexico.</p> <p>24 <i>eP·Z</i>             23 49 29  <i>iS·Z</i>                50 08  <math>\Delta = 3^\circ</math>.</p> <p>25 <i>eP·Z</i>             0 26 25  <i>iS·Z</i>                27 04  <math>\Delta = 3^\circ</math>. Similar to previous shock.</p> <p>25 <i>e·Z</i>               4 28 57  Aftershock?</p> <p>26 <i>iP·ZNE</i>        4 24 04  <i>ePP·ZN</i>            27 04  <i>e(PS)·N</i>          33 53  <math>\Delta = 70^\circ</math>. <math>h = 100</math> km. Ryukyu Islands.</p>
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### Nord 1959

**May**

26	<i>iP</i> · <i>Z</i>	5 <sup>b</sup> 38 <sup>m</sup> 35 <sup>s</sup>	
	$\Delta = 67^\circ$ .	Lesser Antilles.	
26	<i>eP</i> · <i>Z</i>	6 45 17	
	<i>L</i> · <i>N</i>	7 03	
	$\Delta = 53^\circ$ .	Afghanistan.	
26	<i>e</i> · <i>Z</i>	6 53 54	
26	<i>eP</i> · <i>Z</i>	13 31 17	
	<i>eS</i> · <i>Z</i>	33 05	
	$\Delta = 10^\circ$ .	Greenland Sea.	
27	<i>iP</i> · <i>Z</i>	11 58 09	
	Not near.		
28	<i>i</i> · <i>Z</i>	3 48 12	
31	<i>L</i> · <i>NE</i>	10 20	
31	<i>eP</i> · <i>Z</i>	12 23 08	
	$\Delta = 39^\circ$ .	Rumania.	
31	<i>L</i> · <i>NE</i>	15 24	

**June**

1	<i>iP</i> · <i>Z</i>	1 50 02	
	<i>iS</i> · <i>Z</i>	50 25	
	$\Delta = 2^\circ$ .		
1	<i>i</i> · <i>Z</i>	7 12 16	
	Near.		
1	<i>e</i> · <i>Z</i>	9 32 49	
2	<i>L</i> · <i>NE</i>	3 15	
	No Z-record.		
2	<i>L</i> · <i>NE</i>	5 34	
	No Z-record.		
3	<i>iP</i> · <i>Z</i>	5 51 47	
	<i>iPP</i> · <i>Z</i>	53 26	
	$\Delta = 46^\circ$ .	Aleutian Islands.	
4	<i>iPn</i> · <i>Z</i>	10 24 39	
	<i>iPg</i> · <i>Z</i>	24 42	
	<i>iS</i> · <i>Z</i>	25 01	
	$\Delta = 2^\circ$ .		
4	<i>i</i> · <i>Z</i>	15 45 17	
6	<i>e</i> · <i>Z</i>	22 01 36	
7	<i>eP</i> · <i>Z</i>	7 58 05	
	$\Delta = 87^\circ$ .	Philippine Islands.	

**June**

7	<i>eP</i> · <i>Z</i>	6 <sup>h</sup> 26 <sup>m</sup> 38 <sup>s</sup>	
	<i>eS</i> · <i>Z</i>	26 56	
	$\Delta = 2^\circ$ .		
7	<i>iP</i> · <i>Z</i>	8 47 17	
	$\Delta = 87^\circ$ .	Philippine Islands.	
7	<i>i</i> · <i>Z</i>	14 20 15	
7	<i>iP</i> · <i>Z</i>	17 05 06	
	<i>iS</i> · <i>Z</i>	05 25	
	$\Delta = 2^\circ$ .		
7	<i>e</i> · <i>Z</i>	17 14 14	
7	<i>iPn</i> · <i>Z</i>	19 47 08	+
	<i>iP*</i> · <i>Z</i>	47 09	
	<i>iPg</i> · <i>Z</i>	47 13	+
	<i>iRg</i> · <i>Z</i>	47 45	
	$\Delta = 2^\circ$ .		
9	<i>e(P)</i> · <i>Z</i>	10 56 25	
	<i>e(S)</i> · <i>Z</i>	56 59	
	$\Delta = 3^\circ$ .		
9	<i>eP</i> · <i>Z</i>	15 02 15	
	<i>eS</i> · <i>Z</i>	02 32	
	$\Delta = 1^\circ$ .		
9	<i>eP</i> · <i>Z</i>	15 14 05	
	<i>eS</i> · <i>Z</i>	14 29	
	$\Delta = 2^\circ$ .		
9	( <i>L</i> )· <i>Z</i>	23 34 06	
	Near.		
9	<i>i</i> · <i>Z</i>	22 35 59	
	<i>i</i> · <i>Z</i>	36 03	
10	<i>iP</i> · <i>Z</i>	4 24 46	-
	$\Delta = 48^\circ$ .	Crete.	
10	<i>iP</i> · <i>Z</i>	10 21 47	
	<i>iS</i> · <i>Z</i>	22 19	
	$\Delta = 3^\circ$ .		
13	<i>iP</i> · <i>Z</i>	1 12 09	-
	$\Delta = 62^\circ$ .	Japan.	
14	<i>iP</i> · <i>Z</i>	0 26 04	-
	<i>e</i> · <i>ZE</i>	29 38	
	<i>iSKS</i> · <i>NE</i>	36 32	
	<i>e</i> · <i>NE</i>	37 31	
	<i>iS</i> · <i>NE</i>	37 47	
	<i>isS</i> · <i>NE</i>	38 33	
	<i>eSS</i> · <i>NE</i>	45 43	
	<i>L</i> · <i>NE</i>	1 01	
	$\Delta = 105^\circ$ .	<i>h</i> = 100 km. Bolivia.	

Nord 1959

June

- 14 *iP·Z* 6<sup>h</sup>20<sup>m</sup>27<sup>s</sup>  
*iS·Z* 20 43  
 $\Delta = 1^\circ$ .
- 14 *iP·Z* 6 45 58  
*iI·Z* 45 59  
*i·Z* 46 12
- 14 *e·Z* 15 27 00
- 15 *iP·Z* 2 50 12  
 $\Delta = 72^\circ$ . Formosa.
- 16 *eP·Z* 1 19 01  
*iS·Z* 19 34  
 $\Delta = 3^\circ$ .
- 16 *eP·Z* 7 33 46  
*iS·Z* 34 05  
 $\Delta = 2^\circ$ .
- 16 *eP·Z* 8 13 31  
 $\Delta = 73^\circ$ . Mexico.
- 18 *eP·E* 15 39 41  
*iS·E* 46 21  
*eSS·E* 49 36  
*L·E* 55  
 $\Delta = 45^\circ$ . Kamchatka. *E*-record only.
- 21 *eP·Z* 0 20 39  
*iS·Z* 21 00  
 $\Delta = 2^\circ$ .
- 22 *i·Z* 22 43 25
- 23 *e·Z* 3 48 33
- 23 *eP·Z* 14 44 22  
*ePcP·Z* 45 25  
*L·E* 15 02  
 $\Delta = 54^\circ$ . Nevada.
- 24 *eP·Z* 4 35 17  
 $\Delta = 48^\circ$ . Kamchatka.

June

- 24 *e(P)·Z* 6<sup>h</sup>19<sup>m</sup>52<sup>s</sup>
- 24 *iP·Z* 18 57 24  
*iS·Z* 57 46  
 $\Delta = 2^\circ$ .
- 25 *eP·Z* 3 21 58  
 $\Delta = 54^\circ$ . *h* = 200 km. Hindu Kush.
- 25 *iP·ZNE* 6 51 32 Compr.  
*iS·NE* 55 25  
*L·NE* 57.2  
 $\Delta = 20^\circ$ . Southwest of Iceland.
- 25 *e·Z* 23 24 37
- 26 *eP·Z* 13 51 57  
 $\Delta = 38^\circ$ . *h* = 100 km. Rumania.
- 26 *eP·Z* 19 20 21  
*ePP·Z* 22 22  
*eS·N* 27 34  
*L·NE* 38  
 $\Delta = 50^\circ$ . China-USSR border.
- 26 *ePKP·Z* 19 23 32  
*eSKP·Z* 26 39  
*iPKS·N* 26 58 +  
*L·NE* 20.2  
 $\Delta = 132^\circ$ . Kermadec Islands.
- 28 *L·N* 18 58
- 28 *eP·Z* 19 57 35  
*ePKP·Z* 20 01 22  
*eSKS·NE* 08 08 *E*: +  
*iPS·NE* 11 04 *N*: +  
 $\Delta = 106^\circ$ . Banda Sea.
- 29 *iSKS·N* 7 41 03  
 $\Delta = 105^\circ$ . Solomon Islands.
- 29 *iP·Z* 13 32 39  
Philippine Islands.

November 1961.

HENRY JENSEN.  
JØRGEN HJELME.

### Microseisms. Nord

1959	N				E				1959
Jan.	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	Jan.
1	2 0.3 4.7	2 0.6 5.0	2 0.4 5.0	2 0.6 5.0	2 0.4 4.9	2 0.3 4.9	2 0.4 5.0	2 0.4 4.8	1
2	2 0.5 5.3	2 0.8 5.8	2 0.7 5.0	2 0.6 4.9	2 0.4 4.5	2 0.7 4.7	2 0.4 4.6	2 0.5 5.3	2
3	2 0.5 5.2	2 0.7 5.6	2 1.4 6.9	1 2.2 7.3	2 0.6 5.7	2 0.7 6.3	2 1.4 6.6	1 1.6 6.6	3
4	3 3.0 7.0	3 3.5 8.2	3 2.5 7.5	3 2.5 8.0	3 3.2 7.5	.. ..	.. ..	.. ..	4
5	.. ..	3 1.8 7.0	3 1.6 6.0	3 1.8 5.6	2 1.2 6.1	3 2.0 8.6	3 1.9 8.5	3 1.8 6.3	5
6	3 1.7 6.3	2 1.4 6.0	3 1.3 6.3	3 1.4 6.6	.. ..	2 1.7 6.4	3 1.0 6.1	3 1.6 8.5	6
7	3 1.5 7.2	2 1.5 8.7	2 1.3 7.3	2 0.7 5.7	3 1.6 8.5	2 1.6 8.7	2 1.6 8.1	2 0.8 7.7	7
8	2 0.4 6.3	2 0.9 6.8	2 0.8 5.6	2 0.7 6.0	2 0.6 7.4	2 0.9 8.0	2 0.9 7.5	3 1.0 8.0	8
9	3 1.0 5.6	2 1.3 5.6	3 1.3 6.0	2 1.0 6.5	2 1.0 6.5	2 1.0 6.0	3 0.7 6.6	2 0.6 5.4	9
10	2 0.6 5.7	2 0.6 5.4	2 0.8 5.3	2 0.6 5.2	2 0.4 5.5	2 0.4 5.8	2 0.7 5.6	2 0.6 5.4	10
11	2 0.4 5.0	2 0.4 5.1	2 0.6 5.2	2 0.7 5.5	2 0.6 5.0	.. ..	.. ..	2 0.6 5.7	11
12	2 1.0 5.5	2 1.3 5.6	2 1.2 5.4	2 1.3 6.3	2 1.1 5.6	.. ..	.. ..	2 1.2 5.6	12
13	2 1.0 5.6	3 1.3 5.9	2 1.4 6.5	2 1.0 6.9	.. ..	.. ..	.. ..	2 0.8 6.3	13
14	.. ..	2 0.4 6.2	.. ..	2 0.2 5.6	.. ..	2 0.4 5.5	2 0.2 5.2	2 0.2 5.6	14
15	.. ..	.. ..	2 0.2 5.7	2 0.3 6.3	.. ..	2 0.6 5.4	2 0.2 5.4	2 0.4 5.9	15
16	2 0.4 6.1	2 0.3 6.2	2 0.3 6.7	2 0.3 7.4	2 0.3 6.0	2 0.3 6.4	2 0.6 7.6	2 0.4 6.9	16
17	2 0.2 5.4	2 0.5 5.6	2 0.9 5.9	2 0.6 5.7	2 0.4 7.-	3 0.2 5.4	2 0.4 5.3	2 0.5 5.7	17
18	2 0.6 5.7	2 0.8 6.7	2 0.9 6.0	2 1.2 6.3	2 0.8 6.2	2 0.8 6.5	2 1.2 6.8	2 0.7 5.8	18
19	2 1.1 6.4	2 1.0 6.3	2 1.1 6.4	2 0.9 5.7	2 1.0 6.5	2 1.0 6.5	2 1.2 5.9	2 0.8 5.7	19
20	2 0.6 4.8	3 0.4 4.5	2 0.5 5.2	2 0.7 7.3	2 0.7 5.4	2 0.3 5.0	3 0.6 5.5	3 0.5 6.5	20
21	2 1.1 7.6	.. ..	2 0.7 7.0	.. ..	2 0.9 7.2	2 1.5 7.4	2 1.5 7.5	2 1.0 7.3	21
22	2 0.4 6.5	.. ..	2 0.2 4.5	2 0.3 6.1	2 0.5 7.4	.. ..	2 0.2 5.-	2 0.3 6.6	22
23	2 0.4 7.0	2 0.4 6.7	2 0.2 5.6	2 0.6 5.4	2 0.4 6.6	2 0.3 6.7	2 0.3 6.3	2 0.5 5.8	23
24	2 0.8 6.1	2 2.0 7.4	2 1.8 6.9	2 1.3 6.3	2 1.0 7.1	2 1.2 7.4	2 1.8 6.7	2 1.2 6.6	24
25	2 0.8 5.8	2 0.7 5.6	2 0.7 5.5	2 0.4 5.0	2 0.8 6.2	2 0.7 5.7	2 0.4 5.6	2 0.3 4.8	25
26	2 0.2 4.8	2 0.2 5.0	2 0.5 4.6	2 0.3 4.6	2 0.2 4.6	2 0.2 4.6	2 0.2 4.7	2 0.3 4.6	26
27	2 0.6 5.4	2 0.6 5.0	2 0.6 5.5	2 0.5 6.0	2 0.2 4.6	2 0.4 4.8	2 0.4 5.1	2 0.6 5.4	27
28	.. ..	1 1.8 6.3	1 2.1 6.4	3 1.1 6.4	.. ..	1 1.7 6.5	1 2.4 6.8	2 1.5 6.1	28
29	2 0.7 5.0	2 0.5 4.7	2 0.5 4.5	2 0.2 4.7	3 0.7 5.4	2 0.5 4.7	2 0.5 4.5	2 0.2 5.0	29
30	2 0.2 4.2	2 0.3 4.7	2 0.3 4.7	3 2.2 7.2	2 0.2 4.8	.. ..	2 0.2 4.8	3 1.4 6.6	30
31	1 2.2 6.3	1 2.4 6.7	1 1.8 7.-	3 1.1 6.0	1 2.8 6.6	1 3.2 7.4	1 2.2 7.3	3 0.8 6.5	31
Feb.									Feb.
1	.. ..	3 0.9 5.7	3 1.5 7.0	3 2.6 7.2	3 0.4 6.0	3 0.7 6.1	3 1.4 6.2	3 2.3 6.0	1
2	3 1.5 6.0	3 1.2 6.0	3 1.1 5.4	2 1.0 5.6	3 1.4 4.8	3 1.2 5.7	2 0.8 4.7	2 0.6 5.3	2
3	2 0.9 5.9	2 0.8 6.0	2 0.6 5.6	3 0.6 6.3	2 0.5 5.6	2 0.7 5.1	2 0.6 5.4	3 0.4 5.9	3
4	3 0.5 5.4	2 0.8 6.2	2 0.9 6.4	3 1.4 6.6	3 0.7 6.4	3 0.8 6.0	2 0.8 5.6	3 1.1 6.4	4
5	.. ..	.. ..	2 0.8 6.5	2 0.7 5.8	2 1.2 6.2	.. ..	2 0.8 6.2	2 0.8 6.0	5
6	2 0.9 6.2	1 1.3 6.0	2 0.9 5.9	2 0.7 5.4	2 1.7 6.0	1 1.3 6.0	1 1.7 6.0	2 1.2 6.4	6
7	.. ..	.. ..	2 0.7 5.4	2 0.5 5.4	2 0.6 5.7	2 0.6 5.2	2 0.7 5.2	2 0.6 5.3	7
8	2 0.4 5.4	2 0.5 5.4	3 0.7 6.5	3 1.4 6.2	2 0.2 5.0	2 0.5 6.1	3 0.9 5.9	3 2.0 5.9	8
9	1 3.- 7.-	1 2.8 6.0	1 2.5 7.0	1 1.7 6.6	1 3.0 6.8	1 3.5 6.5	.. ..	3 1.7 6.0	9
10	.. ..	3 1.0 5.8	3 1.0 5.3	2 0.7 6.3	3 1.5 6.0	2 1.2 5.5	2 0.9 5.9	2 0.8 6.7	10
11	2 0.8 6.6	3 0.5 6.0	2 0.7 6.3	2 0.7 6.1	2 0.4 6.2	2 0.4 5.4	2 0.7 6.5	2 0.8 6.5	11
12	.. ..	.. ..	3 1.4 6.3	1 2.0 6.3	2 0.3 5.7	2 0.5 6.0	3 1.2 5.8	3 1.8 6.2	12
13	1 2.- 6.-	1 1.7 6.5	3 1.5 7.1	.. ..	1 2.- 6.-	3 1.7 6.8	.. ..	.. ..	13
14	2 0.9 5.8	2 0.5 6.3	2 0.8 6.0	2 0.3 6.2	2 0.6 6.4	2 0.8 5.7	2 0.6 5.7	2 0.5 5.5	14
15	3 0.8 5.5	.. ..	2 1.3 6.7	3 1.0 6.8	3 0.7 6.3	.. ..	3 0.9 7.3	3 0.9 7.0	15
16	3 0.9 7.3	3 0.7 6.2	3 0.4 5.7	2 0.4 5.3	3 0.4 6.0	3 0.4 5.4	3 0.6 5.5	3 0.6 5.5	16
17	2 0.4 5.7	3 0.6 7.0	1 3.3 7.8	1 4.8 7.5	.. ..	3 1.- 7.-	1 3.0 7.6	1 6.0 7.8	17
18	1 3.- 7.-	1 3.2 7.6	1 2.7 6.3	3 1.4 6.0	1 3.7 6.8	1 3.0 6.2	1 2.8 6.2	3 1.6 5.7	18
19	2 1.5 6.6	2 0.9 6.0	2 0.9 5.7	2 0.7 5.3	2 1.6 6.1	2 0.7 5.7	2 1.0 6.0	2 0.5 6.5	19
20	2 0.3 4.8	2 0.3 5.1	2 0.6 5.1	2 0.7 5.1	2 0.3 6.0	2 0.3 6.0	2 0.5 5.0	2 0.8 5.6	20
21	.. ..	.. ..	1 1.6 5.5	1 1.4 6.0	.. ..	1 1.8 5.6	1 2.1 5.5	1 1.3 5.6	21
22	3 1.6 5.6	2 1.4 6.3	2 0.9 6.1	3 0.8 6.0	3 1.6 5.6	.. ..	3 0.6 5.4	.. ..	22
23	.. ..	.. ..	.. ..	2 0.5 6.2	2 0.8 5.9	2 0.4 5.3	.. ..	.. ..	23
24	2 0.4 5.0	2 0.8 7.0	3 0.7 6.5	3 0.4 5.5	2 0.2 5.5	2 1.1 6.9	3 0.7 6.1	3 0.5 4.3	24

### Microseisms. Nord

1959	N				E				1959
	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	
Feb.									Feb.
25	.. ..	2 0.5 5.0	2 0.3 5.0	2 0.2 4.5	2 0.3 4.7	2 0.3 4.0	2 0.2 4.3	2 0.2 4.2	25
26	3 0.3 4.0	3 0.3 4.5	3 0.2 4.6	3 0.2 5.3	3 0.2 4.6	3 0.2 3.7	3 0.2 4.6	3 0.2 4.5	26
27	3 0.2 5.0	3 0.3 5.1	3 0.4 4.6	3 0.2 4.7	3 0.2 3.9	3 0.2 3.8	.. ..	.. ..	27
28	2 0.3 3.6	2 0.6 4.5	2 0.6 5.5	2 0.5 4.9	3 0.2 3.7	3 0.2 4.7	3 0.2 4.6	.. ..	28
March									March
1	3 0.3 4.3	3 0.4 4.5	3 0.3 5.0	.. ..	3 0.4 3.8	3 0.3 4.3	3 0.2 4.6	.. ..	1
2	3 0.9 5.9	3 0.7 4.2	3 0.7 4.6	3 0.7 3.9	3 0.5 5.9	3 0.6 6.3	3 0.6 6.4	3 0.6 4.7	2
3	2 0.7 5.4	3 1.0 6.1	3 0.7 5.1	3 0.5 4.1	3 0.5 4.8	3 1.1 5.6	3 0.5 4.8	3 0.6 5.4	3
4	3 0.6 5.0	3 0.6 5.4	3 0.6 5.8	3 0.9 6.8	3 0.4 6.4	3 0.3 5.8	3 1.2 7.6	3 0.7 7.4	4
5	3 0.8 6.1	3 0.7 5.5	3 0.7 5.6	3 0.7 5.8	2 0.6 6.2	3 0.8 5.2	3 0.5 5.8	3 1.1 5.8	5
6	3 0.6 5.2	3 0.5 4.6	3 0.7 5.6	3 0.5 5.8	3 0.7 5.7	3 0.4 5.3	3 0.4 5.5	3 0.4 5.3	6
7	3 0.5 5.5	3 0.7 5.8	2 0.6 5.3	3 0.5 5.3	3 0.4 5.4	3 0.4 5.8	3 0.4 5.3	.. ..	7
8	.. ..	2 0.5 4.7	2 0.4 4.8	2 0.4 5.2	.. ..	2 0.3 4.2	2 0.4 4.2	2 0.3 5.3	8
9	2 0.4 4.9	2 0.7 4.7	1 1.0 5.4	1 1.1 6.1	2 0.4 4.6	2 0.6 5.1	1 0.8 5.6	1 0.8 5.8	9
10	3 0.8 6.1	3 0.9 6.3	3 0.8 5.9	3 0.9 6.1	3 0.7 5.2	3 1.1 5.3	3 0.8 5.6	3 0.9 5.9	10
11	3 0.9 5.9	3 0.6 5.3	3 0.9 6.1	3 0.6 5.6	3 0.6 5.8	2 0.8 5.8	3 0.9 5.6	3 0.8 5.5	11
12	2 0.8 5.3	2 0.8 5.9	2 0.8 5.5	2 0.6 5.2	2 0.6 5.2	2 0.6 5.7	2 0.5 5.6	2 0.6 6.2	12
13	2 0.6 5.7	2 0.6 5.9	2 0.6 5.7	2 0.6 5.8	2 0.4 5.3	2 0.5 5.8	2 0.5 5.8	2 0.4 5.8	13
14	2 0.7 5.5	2 0.7 5.6	2 0.8 5.6	2 0.8 5.9	2 0.5 5.4	2 0.6 5.7	2 0.9 5.8	2 0.6 5.4	14
15	2 0.5 5.8	1 0.7 5.5	1 0.6 5.4	1 0.8 5.7	2 0.3 5.3	2 0.5 5.7	1 0.8 5.5	1 1.0 5.8	15
16	1 0.6 6.1	1 1.2 6.2	1 1.1 6.1	1 1.0 5.9	1 0.8 5.8	1 0.8 5.7	1 1.2 6.2	1 0.7 5.9	16
17	2 0.3 5.7	2 0.2 5.5	0.1	0.1	2 0.4 5.6	2 0.3 5.3	2 0.1 5.5	2 0.1 4.6	17
18	2 0.1 4.8	2 0.2 5.3	2 0.3 5.3	2 0.4 4.9	2 0.1 5.4	2 0.2 5.1	2 0.3 5.4	2 0.4 5.3	18
19	2 0.4 4.9	2 0.4 4.7	2 0.4 5.1	2 0.4 4.7	2 0.3 4.8	2 0.3 5.2	2 0.3 4.9	2 0.3 4.8	19
20	2 0.6 5.1	2 0.6 4.9	2 0.3 5.1	2 0.2 5.0	2 0.6 5.3	2 0.5 5.1	2 0.3 5.2	2 0.2 4.8	20
21	2 0.3 5.8	2 0.3 5.7	2 0.5 5.5	1 1.0 6.3	2 0.2 5.9	2 0.2 5.4	2 0.5 5.8	2 1.2 5.9	21
22	1 1.2 6.0	1 0.9 6.3	1 0.8 6.0	2 0.4 6.3	1 1.0 6.5	1 1.1 6.4	2 1.0 6.4	2 0.3 6.2	22
23	2 0.2 5.6	2 0.2 4.8	2 0.2 5.5	2 0.1 5.6	2 0.2 5.7	2 0.2 5.0	2 0.1 4.8	2 0.1 4.9	23
24	2 0.1 4.5	2 0.1 4.3	2 0.2 4.8	2 0.3 5.3	2 0.1 4.7	2 0.1 5.-	2 0.1 4.8	2 0.2 5.6	24
25	.. ..	2 0.3 5.4	2 0.4 5.3	2 0.4 5.4	.. ..	2 0.3 5.-	2 0.3 5.-	2 0.3 5.-	25
26	2 0.5 5.1	2 0.4 5.0	2 0.4 5.4	2 0.4 5.3	2 0.4 5.5	2 0.4 5.2	2 0.4 5.4	2 0.4 5.4	26
27	2 0.4 5.4	1 0.8 6.3	1 1.0 5.9	1 1.0 6.1	2 0.4 5.3	2 0.7 5.9	2 1.0 5.6	2 1.1 5.8	27
28	1 1.1 6.2	.. ..	.. ..	.. ..	2 1.- 5.8	2 0.5 5.5	2 0.5 5.5	2 0.5 5.5	28
29	2 0.5 5.7	2 0.2 5.5	2 0.2 5.5	2 0.2 5.7	0.1	0.1	0.1	0.1	29
30	.. ..	2 0.3 4.5	2 0.3 4.9	2 0.3 4.8	0.1	0.1	0.1	0.1	30
31	2 0.2 4.3	2 0.2 4.4	2 0.2 5.1	2 0.4 5.8	.. ..	.. ..	.. ..	.. ..	31
April									April
1	2 0.3 5.2	2 0.4 5.4	2 0.5 5.5	2 0.5 6.2	.. ..	.. ..	.. ..	.. ..	1
2	3 0.5 6.5	3 0.4 6.7	3 0.2 6.5	3 0.2 6.7	.. ..	.. ..	.. ..	.. ..	2
3	2 0.2 5.5	2 0.3 5.6	2 0.3 5.2	2 0.3 5.4	.. ..	.. ..	.. ..	.. ..	3
4	2 0.1 5.8	3 0.1 4.8	3 0.1 5.5	2 0.2 4.9	.. ..	.. ..	.. ..	.. ..	4
5	.. ..	1 0.8 4.7	2 0.5 4.5	2 0.5 4.3	.. ..	.. ..	.. ..	.. ..	5
6	2 0.4 4.7	2 0.3 4.3	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	6
7	3 0.4 4.9	3 0.4 4.8	3 0.4 4.8	3 0.5 5.4	.. ..	.. ..	.. ..	.. ..	7
8	.. ..	2 0.3 5.4	3 0.7 5.5	3 0.3 5.4	.. ..	.. ..	.. ..	.. ..	8
9	3 0.3 5.6	3 0.5 5.0	1 0.8 4.7	3 0.6 4.7	.. ..	.. ..	.. ..	.. ..	9
10	0.4	0.4	0.4	0.4	.. ..	.. ..	.. ..	.. ..	10
11	.. ..	2 0.3 5.5	2 0.2 5.5	2 0.1 4.5	.. ..	.. ..	.. ..	.. ..	11
12	2 0.2 4.2	2 0.2 4.7	2 0.2 4.9	2 0.2 4.7	.. ..	.. ..	.. ..	.. ..	12
13	2 0.2 4.5	2 0.2 4.8	2 0.3 5.2	2 0.3 5.2	.. ..	.. ..	.. ..	.. ..	13
14	3 0.4 6.3	2 0.4 6.5	2 0.4 5.5	2 0.3 5.8	2 0.3 6.6	2 0.3 6.0	2 0.2 5.7	2 0.2 5.6	14
15	3 0.3 5.5	2 0.3 5.6	3 0.3 5.2	1 0.8 6.7	.. ..	3 0.3 6.1	2 0.4 5.8	2 0.5 6.5	15
16	1 0.9 7.0	1 0.6 6.5	1 0.5 6.3	3 0.4 6.2	3 0.5 6.8	3 0.5 6.8	2 0.3 6.0	3 0.3 6.0	16
17	.. ..	3 0.4 7.5	1 1.5 8.5	1 1.3 8.3	2 0.2 6.-	3 0.5 7.-	3 1.- 8.-	3 1.- 8.-	17
18	1 1.5 7.8	1 1.5 7.1	1 1.2 6.7	1 1.0 6.5	.. ..	1 1.- 7.-	1 1.- 7.-	1 1.- 7.-	18



### Microseisms. Nord

1959	N				E				1959
April	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	April
19	2 1.0 6.0	2 0.9 5.5	2 0.7 5.7	2 0.3 5.3	2 0.5 6.-	2 0.5 6.-	2 0.5 6.-	0.1	19
20	2 0.3 5.0	2 0.3 4.9	2 0.3 4.4	2 0.2 4.5	0.1	0.1	0.1	0.1	20
21	2 0.2 4.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	21
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	2 0.1 4.2	1 0.5 5.3	1 0.8 5.5	0.0	0.1	0.1	1 0.5 5.5	23
24	1 0.9 5.8	1 0.7 5.4	1 0.9 5.4	1 0.9 5.7	.. ..	.. ..	.. ..	1 0.5 5.5	24
25	1 0.9 5.6	1 0.9 5.7	1 0.8 5.7	1 0.6 6.3	.. ..	.. ..	.. ..	1 0.5 6.-	25
26	2 0.4 6.2	2 0.3 6.0	2 0.2 5.2	2 0.2 4.8	.. ..	.. ..	.. ..	.. ..	26
27	2 0.2 5.0	2 0.2 4.9	2 0.1 4.8	2 0.1 4.9	.. ..	.. ..	.. ..	.. ..	27
28	2 0.1 4.8	2 0.1 4.9	.. ..	2 0.1 4.5	.. ..	.. ..	.. ..	.. ..	28
29	2 0.1 4.6	2 0.1 4.0	2 0.1 3.8	2 0.1 4.2	.. ..	.. ..	.. ..	.. ..	29
30	2 0.1 4.1	0.0	0.0	0.0	.. ..	.. ..	.. ..	.. ..	30
May									May
1	0.0	0.0	0.0	0.0	.. ..	.. ..	.. ..	.. ..	1
2	0.0	0.0	0.0	0.0	.. ..	.. ..	.. ..	.. ..	2
3	0.0	0.0	0.0	0.0	.. ..	.. ..	.. ..	.. ..	3
4	0.0	0.0	0.0	2 0.1 4.5	.. ..	.. ..	.. ..	.. ..	4
5	0.0	0.0	0.0	0.0	.. ..	.. ..	.. ..	.. ..	5
6	2 0.1 4.3	2 0.1 4.0	3 0.2 4.4	2 0.3 4.1	0.0	0.0	0.0	0.0	6
7	2 0.3 4.3	2 0.3 4.5	2 0.2 4.3	2 0.1 4.7	2 0.3 4.5	2 0.3 4.5	2 0.1 4.-	0.0	7
8	2 0.1 4.4	2 0.1 4.2	2 0.1 4.2	2 0.1 4.3	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	.. ..	0.0	0.0	0.0	.. ..	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.1	2 0.1 4.0	2 0.1 4.7	2 0.2 5.5	0.0	0.1	0.1	0.1	15
16	2 0.1 5.2	2 0.1 5.0	0.0	0.0	0.1	0.0	0.0	0.0	16
17	0.0	0.0	2 0.1 4.3	2 0.1 4.6	0.0	0.0	0.0	0.0	17
18	0.1	2 0.1 4.2	2 0.1 4.1	2 0.1 4.0	2 0.1 4.2	2 0.1 4.3	2 0.1 4.1	2 0.1 4.0	18
19	0.1	0.1	0.1	0.1	0.1	0.1	.. ..	0.1	19
20	2 0.1 4.5	2 0.2 4.7	2 0.1 4.7	2 0.1 4.6	2 0.2 4.4	2 0.2 4.5	0.1	0.1	20
21	0.1	0.0	0.0	2 0.1 4.2	0.0	0.0	0.0	2 0.1 4.3	21
22	2 0.1 4.5	2 0.1 4.3	2 0.1 4.0	0.0	2 0.1 4.3	2 0.1 4.1	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	2 0.1 4.3	2 0.2 4.7	2 0.1 4.9	0.0	2 0.1 4.5	2 0.1 4.4	2 0.1 4.8	24
25	2 0.1 4.8	2 0.1 5.0	2 0.1 5.4	0.1	2 0.1 5.1	2 0.1 4.9	0.1	.. ..	25
26	0.1	0.0	0.0	0.0	0.1	0.0	0.0	.. ..	26
27	0.0	.. ..	.. ..	.. ..	0.0	.. ..	.. ..	.. ..	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.. ..	28
29	.. ..	2 0.1 5.0	2 0.2 5.2	2 0.1 4.9	0.0	2 0.2 4.8	2 0.2 4.6	2 0.1 4.8	29
30	2 0.1 5.3	2 0.1 4.6	2 0.1 4.0	2 0.1 4.4	2 0.1 4.8	2 0.1 4.1	2 0.2 4.5	2 0.1 4.5	30
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
June									June
1	2 0.1 4.0	2 0.1 3.9	2 0.1 4.0	2 0.1 4.3	2 0.1 4.2	2 0.1 4.0	2 0.1 4.1	2 0.1 4.3	1
2	2 0.1 4.2	.. ..	2 0.1 4.6	2 0.1 4.8	2 0.1 4.2	.. ..	2 0.1 4.8	2 0.1 4.8	2
3	2 0.1 5.2	2 0.1 5.3	2 0.1 4.8	2 0.1 4.5	2 0.1 5.0	2 0.1 4.5	2 0.1 4.9	2 0.1 5.0	3
4	2 0.1 4.8	2 0.2 5.2	2 0.2 5.3	2 0.2 5.2	2 0.1 4.9	2 0.1 5.0	2 0.2 5.2	2 0.2 5.2	4
5	2 0.2 5.6	2 0.1 4.8	2 0.1 4.3	2 0.1 5.2	2 0.1 5.5	2 0.1 5.2	2 0.1 5.0	2 0.1 5.0	5
6	2 0.1 4.6	2 0.1 4.4	2 0.2 4.4	2 0.2 4.8	2 0.1 4.3	2 0.1 4.6	2 0.2 5.0	2 0.2 5.0	6
7	2 0.3 4.6	2 0.4 4.8	2 0.5 4.9	2 0.4 4.8	2 0.3 4.7	2 0.4 4.6	2 0.4 4.9	2 0.5 5.0	7
8	2 0.4 4.8	2 0.5 5.0	2 0.3 4.7	2 0.2 5.2	2 0.5 5.2	2 0.4 5.3	2 0.3 4.6	2 0.2 4.9	8
9	2 0.2 4.6	2 0.2 4.8	2 0.2 4.8	2 0.1 5.0	2 0.2 4.7	2 0.3 4.9	2 0.2 4.9	2 0.1 4.7	9
10	2 0.1 4.9	0.1	0.0	0.0	0.1	0.0	0.0	0.0	10

Microseisms. Nord

1959	N				E				1959
June	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	0 <sup>h</sup>	6 <sup>h</sup>	12 <sup>h</sup>	18 <sup>h</sup>	June
11	0.0	0.0	0.0	2 0.1 5.1	0.0	0.0	0.0	2 0.1 4.9	11
12	2 0.1 4.8	2 0.3 4.9	2 0.2 4.7	2 0.2 4.8	2 0.1 4.4	2 0.3 4.9	2 0.2 4.7	2 0.2 4.8	12
13	2 0.1 4.6	0.1	0.0	0.0	2 0.1 4.7	0.1	0.0	0.0	13
14	0.0	0.0	0.1	2 0.1 5.0	0.0	0.0	0.1	2 0.1 5.0	14
15	2 0.1 5.2	2 0.1 5.8	0.1	0.0	2 0.1 5.5	2 0.1 5.5	0.0	0.0	15
16	0.0	2 0.1 4.0	2 0.1 4.2	2 0.1 4.3	0.0	0.0	2 0.1 4.3	2 0.1 4.2	16
17	2 0.1 4.5	2 0.1 4.4	0.1	0.0	2 0.1 4.6	2 0.1 4.5	0.0	0.0	17
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	.. ..	.. ..	.. ..	0.0	2 0.1 3.-	2 0.1 3.-	0.0	20
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	.. ..	.. ..	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30