

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark



Bulletin of the seismological station

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

Lithologic foundation: gneiss

InstrumentsGalitzin-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.

During most of the period the instruments did not work satisfactorily.

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. + indicates ground motion towards the north, towards the east, or upwards. - indicates the opposite direction. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.

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. All readings are due to the Galitzin instruments.

Scoresbysund 1959

January		January	
1	<i>iP·Z'</i> 2 ^h 10 ^m 03 ^s + <i>L·NE</i> 14.3 $\Delta = 14^\circ$. Off NE-coast of Greenland.	16	<i>e(P)·Z'</i> 16 ^h 59.4 <i>ePcP·Z'</i> 17 00 ^m 50 ^s <i>e(S)·E</i> 06.5 <i>L·NE</i> 14 $\Delta = 48^\circ$. Queen Charlotte Islands.
5	<i>iPKP·Z'</i> 10 05 55 <i>e·Z'</i> 06 08 <i>ePP·Z'</i> 08 12 <i>iSKP·Z'</i> 09 09 $\Delta = 131^\circ$. Loyalty Islands.	18	<i>iP·Z'</i> 7 40 48 + $\Delta = 15^\circ$. Atlantic Ocean.
6	<i>eP·Z'</i> 12 40 10 $\Delta = 62^\circ$. Kurile Islands.	18	<i>eP·Z'</i> 15 57 50 $\Delta = 55^\circ$. Aleutian Islands.
7	<i>e·Z'</i> 0 30 13 <i>e·Z'</i> 30 31	18	<i>ePKP·Z'</i> 22 41 30 <i>i·Z</i> 41 32 + <i>epPKP·Z'</i> 43 27 $\Delta = 127^\circ$. $h = 450$ km. Fiji Islands.
7	<i>eP·Z'</i> 5 23 19 $\Delta = 62^\circ$. Iran.	22	<i>iP·Z'ZN</i> 5 21 50 <i>i·N</i> 22 12 <i>iPP·N</i> 24 31 <i>iS·NE</i> 31 08 <i>iPS·E</i> 31 26 <i>eSKS·NE</i> 31 51 <i>i·N</i> 34 31 <i>iSS·NE</i> 36 06 <i>eSSS·NE</i> 39.6 <i>L·NE</i> 43.7 <i>M·NE</i> 54 20 ^s . $N: 35 \mu$, $E: 80 \mu$. $\Delta = 71^\circ$. $M = 7\frac{1}{2}$. Japan.
7	<i>eP·Z'</i> 22 29 59 $\Delta = 43^\circ$. Turkey.	22	<i>eP·Z'</i> 7 44 04 $\Delta = 66^\circ$. Japan.
8	<i>iP·Z'</i> 1 43 52 $\Delta = 60^\circ$. $h = 100$ km. Lesser Antilles.	22	<i>iP·Z'</i> 9 57 59 $\Delta = 70^\circ$. Japan.
8	<i>eP·Z'</i> 16 07 16 $\Delta = 85^\circ$. NW of Galapagos Islands.	23	<i>eP·Z'</i> 10 30 41 $\Delta = 57^\circ$. Atlantic Ocean.
9	<i>eP·Z'</i> 2 02 55 <i>i·Z'</i> 03 02 $\Delta = 42^\circ$. Greece.	24	<i>iP·Z'</i> 5 19 54 <i>ipP·Z'</i> 20 15 <i>ePP·Z'</i> 22 33 $\Delta = 72^\circ$. $h = 100$ km. Japan.
11	<i>eP·Z'</i> 7 33 28 <i>L·NE</i> 56 $\Delta = 68^\circ$. $h = 200$ km. Guatemala.	24	<i>iP·Z'</i> 20 01 56 <i>iS·NE</i> 07 24 <i>iSS·E</i> 09 29 <i>i·N</i> 09 59 <i>L·NE</i> 11.4 $\Delta = 34^\circ$. Azores.
11	<i>eP·Z'</i> 7 35 52 <i>i·Z'</i> 35 58 <i>e·Z'</i> 36 03 Near shock.	27	<i>eP·Z'</i> 3 37 16 <i>i·Z'</i> 37 21 <i>eS·NE</i> 38 46 <i>i·N</i> 39 19 $\Delta = 7^\circ$. Jan Mayen.
13	<i>eP·Z'</i> 7 30 27 $\Delta = 54^\circ$. Aleutian Islands.	27	<i>L·NE</i> 6 47.3 per: 6-8 sec.
13	<i>e·Z'</i> 8 04 02		
15	<i>iPKP·Z'</i> 21 38 44 + <i>iSKP·Z'</i> 41 35 - <i>iSS·E</i> 58 27 + <i>esSS·E</i> 22 01 20 - $\Delta = 133^\circ$. $h = 500$ km. Fiji Islands.		
16	<i>e·Z'</i> 1 08 21		
16	<i>eP·Z'</i> 1 40 59 <i>i·Z'</i> 41 01 - <i>ePcP·Z'</i> 41 59 <i>L·NE</i> 2 01 $\Delta = 55^\circ$. Aleutian Islands.		

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January		February	
30	<i>ePKP·Z'</i> 18 ^h 28 ^m 23 ^s <i>iPP·Z'</i> 31 13 $\Delta = 138^\circ$. Kermadec Islands.	15	<i>iPKP·Z'</i> 4 ^h 18 ^m 36 ^s <i>iPKS·Z'NE</i> 22 01 <i>L·NE</i> 5 01 $\Delta = 130^\circ$. Sandwich Group.
30	<i>e(P)·Z'</i> 18 39 54	15	<i>iPKP·Z'</i> 5 01 46 <i>ePKS·Z'N</i> 05 09 <i>L·NE</i> 44 Repetition.
30	<i>eP·Z'</i> 20 49 48 $\Delta = 65^\circ$. Japan.	16	<i>eP·Z'</i> 0 51 54 $\Delta = 82^\circ$. Ecuador.
30	<i>eP·Z'</i> 22 27 38 Repetition.	17	<i>eP·Z'</i> 12 12 51 $\Delta = 56^\circ$. Aleutian Islands.
February		17	<i>(e)P·Z'</i> 13 01 15 in the time break. <i>i(PcP)·Z'</i> 01 34 $\Delta = 76^\circ$. Japan.
1	<i>eP·Z'</i> 3 22 57 $\Delta = 57^\circ$. $h = 200$ km. Hindu Kush.	20	<i>e(P)·Z'</i> 13 00 08
2	<i>eP·Z'</i> 15 55 49 $\Delta = 7^\circ$. Iceland.	20	<i>iP·Z'</i> 18 27 16 $\Delta = 68^\circ$. $h = 100$ km. Guatemala.
2	<i>eP·Z'</i> 19 28 44 $\Delta = 44^\circ$. Crete.	23	<i>eP·Z'</i> 10 40 52 <i>i·Z'</i> 40 54 $\Delta = 56^\circ$. Kamchatka.
5	<i>iP·Z'</i> 1 13 28 $\Delta = 49^\circ$. Alaska Peninsula.	23	<i>iP·Z'</i> 16 14 55 <i>L·E</i> 36 $\Delta = 60^\circ$. Kurile Islands.
5	<i>eP·Z'</i> 10 17 11 $\Delta = 73^\circ$. Japan.	24	<i>eP·Z'</i> 12 59 02 $\Delta = 95^\circ$. Philippine Islands.
6	<i>eP·Z'</i> 14 42 46 <i>L·NE</i> 59 $\Delta = 57^\circ$. Aleutian Islands.	25	<i>iP·Z'</i> 11 30 27 <i>epP·Z'</i> 32 23 $\Delta = 80^\circ$. $h = 550$ km. Japan.
7	$\sqrt{7}$ <i>iP·Z'ZNE</i> 9 49 24 8 ^s . $Z: + 10 \mu$, $N: + 5 \mu$, $E: + 12 \mu$. <i>iPP·Z'ZNE</i> 52 32 <i>iSKS·NE</i> 59 48 <i>ePS·NE</i> 10 00 40 <i>eSS·NE</i> 05 14 <i>ePKKP·Z'</i> 07 40 <i>iPKPPKP·Z'</i> 15 48 <i>L·NE</i> 16 <i>M·NE</i> 24 20 ^s . $N: 30 \mu$, $E: 65 \mu$. $\Delta = 84^\circ$. $M = 7$. Peru.	26	<i>eP·Z'</i> 1 54 51 $\Delta = 82^\circ$. Ryukyu Islands.
7	<i>eP·Z'</i> 11 03 04 $\Delta = 58^\circ$. Atlantic Ocean.	26	<i>iP·Z'ZE</i> 7 00 39 <i>iS·ZNE</i> 01 04 <i>i·N</i> 01 11 <i>i·E</i> 01 16 <i>i·Z</i> 01 26 $\Delta = 3^\circ$. NW of the station.
8	<i>iP·Z'ZNE</i> 1 07 21 <i>iPP·N</i> 07 39 <i>eS·NE</i> 11 24 <i>L·NE</i> 12.3 $\Delta = 22^\circ$. North Atlantic Ocean.	27	<i>iP·Z'</i> 21 08 44 <i>L·NE</i> 36 $\Delta = 80^\circ$. Ryukyu Islands.
9	<i>iP·Z'</i> 4 52 34 $\Delta = 58^\circ$. Aleutian Islands.		
14	<i>iP·Z'</i> 14 37 21 $\Delta = 73^\circ$. East Pakistan.		

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March

1 *eP·Z'* 0^b33^m42^s
i·Z' 33 44
i·Z'Z 33 49
iS·Z'NE 35 28
L·NE 36 12^s. N: 15 μ , E: 20 μ .
 $\Delta = 10^\circ$. South of Svalbard.

1 *eP·Z* 17 03 22
epP·Z' 03 46
esP·Z' 03 58
ePKP·Z' 07 20
ePP·Z' 08 00
e(SKS)·NE 14 22
i·E 15 50
ePS·E 17 25
ePKKP·Z' 19 05
L·NE 42
 $\Delta = 108^\circ$. $h = 100$ km. New Guinea.

2 *iP·Z'* 16 01 10
epP·Z' 01 56
esP·Z' 02 14
 $\Delta = 57^\circ$. $h = 200$ km. Hindu Kush.

4 *iP·Z'* 23 11 51
 $\Delta = 70^\circ$. Japan.

5 *eP·Z'* 0 24 46
 $\Delta = 56^\circ$. Kamchatka.

5 *eP·Z'* 14 20 26
 $\Delta = 65^\circ$. $h = 100$ km. Kurile Islands.

5 *e·Z'* 17 16 45

7 *iP·Z'* 15 51 40
 $\Delta = 54^\circ$. Alaska Peninsula.

9 *eP·Z'* 18 55 25
 $\Delta = 69^\circ$. Japan.

9 *eP·Z'* 22 13 50
epP·Z' 14 28
 $\Delta = 68^\circ$. $h = 150$ km. Guatemala.

13 *eP·Z'* 19 16 20
 $\Delta = 46^\circ$. Mediterranean Sea.

14 *eP·Z'* 3 06 06
 $\Delta = 65^\circ$. Kurile Islands.

16 *eP·Z'* 8 12 49
 $\Delta = 65^\circ$. Kurile Islands.

March

17 *iP·Z'* 8^b37^m35^s
iS·E 47 43
iScS·E 47 59
iPS·E 48 22
eSS·E 52.5
L·NE 9 06
 $\Delta = 80^\circ$. Ryukyu Islands.

17 *ePKP·Z'* 13 18 10
L·NE 14 04
 $\Delta = 128^\circ$. Sandwich Group.

17 *e·Z'* 20 00 31

17 *eP·Z'* 22 01 44
e(S)·ZNE 03 06
 $\Delta = 7^\circ$. Jan Mayen.

18 *iP·Z'* 0 53 36
eS·E 1 03 43
ePS·NE 04.3
L·NE 21
 $\Delta = 80^\circ$. Ryukyu Islands.

18 *eP·Z'* 15 08 34
 $\Delta = 87^\circ$. Peru-Brazil border.

19 *eP·Z'* 7 36 25
 $\Delta = 80^\circ$. Ryukyu Islands.

19 *e·Z'* 8 32 27
 Foreshock?

19 *iP·Z'* 8 32 40
eS·NE 38 20
eSS·NE 40 35
i(SSS)·E 40 54
M·NE 43 10^s. N: 8 μ , E: 13 μ .
 $\Delta = 36^\circ$. North Atlantic Ocean.

19 *iP·Z'* 9 45 41
 $\Delta = 43^\circ$. $h = 100$ km. Alaska.

19 *eP·Z'* 14 26 31
 $\Delta = 74^\circ$. Japan.

19 *e·Z'* 17 25 16

21 *iPKP·Z'* 4 45 21
 $\Delta = 126^\circ$. $h = 550$ km. Fiji Islands.

23 *eP·Z'* 7 19 58
i·Z' 20 02
eS·N 27 41
L·NE 37
 $\Delta = 55^\circ$. Nevada.

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March

24 *(e)P·Z'* 17^b30^m(00^s) in the time-break.
 $\Delta = 75^\circ$. Japan.

25 *eP·Z'* 0 23 47
 $\Delta = 84^\circ$. Peru.

25 *e·Z'* 0 28 19

26 *eP·Z'* 5 02 56
 $\Delta = 52^\circ$. Unimak Island.

26 *e·Z'* 14 11 47
e·Z' 12 31

28 *eP·Z'* 17 23 52
 $\Delta = 86^\circ$. Philippine Islands.

28 *(i)PKP·Z'* 20 05 11 in the time-break.
epPKP·Z' 07 18
 $\Delta = 127^\circ$. $h = 600$ km. Fiji Islands.

29 *eP·Z'* 23 15 04
 $\Delta = 42^\circ$. Greece.

April

2 *eP·Z'* 4 14 50
 $\Delta = 81^\circ$. Ryukyu Islands.

2 *eP·Z'* 4 41 59
 $\Delta = 40^\circ$. Turkey.

2 *eP·Z'* 19 34 16
i·Z' 34 21
L·E 20 16
 $\Delta = 86^\circ$. Batan Islands.

3 *iP·Z'* 1 37 00
 $\Delta = 57^\circ$. Aleutian Islands.

5 *eP·Z'* 5 46 55
 $\Delta = 55^\circ$. Aleutian Islands.

5 *eP·Z'* 10 54 15
L·NE 11 04
 $\Delta = 31^\circ$. France.

5 *iP·Z'* 20 10 34
 $\Delta = 64^\circ$. Kurile Islands.

5 *iPKKP·Z'* 23 58 47
 $\Delta = 115^\circ$. New Guinea.

6 *ePKP·Z'* 14 31 24
ePP·Z' 32 15
L·E 15 16
 $\Delta = 115^\circ$. Sumba Islands.

April

6 *e·Z'* 17^b47^m54^s
e·Z' 48 18

8 *iPKP·Z'* 1 42 11
epPKP·Z' 43 56
eSKP·Z' 45 10
 $\Delta = 140^\circ$. $h = 400$ km. Kermadec Islands.

8 *iPKP·Z'* 8 20 28
 $\Delta = 123^\circ$. $h = 100$ km. Tonga Islands.

8 *ePKP·Z'* 12 03 33
L·NE 47
 $\Delta = 127^\circ$. Southern Chile.

9 *ePKP·Z'* 5 02 54
 $\Delta = 123^\circ$. $h = 100$ km. New Hebrides Islands.

9 *ePKP·Z'* 6 37 44
ePP·Z' 39 40
i·Z' 39 44
eSS·N 56.8
e·N 57 27
eSSS·E 7 01.4
L·NE 21
 $\Delta = 127^\circ$. Indian Ocean.

9 *eP·Z'* 12 35 00
 $\Delta = 65^\circ$. Kurile Islands.

9 *eP·Z'* 17 47 50
eS·N 57 31
L·NE 18 12
 $\Delta = 75^\circ$. Panama.

10 *iPKP·Z'* 6 05 51
epPKP·Z' 08 04
iSKP·Z' 08 25
e·N 09 27
eSS·NE 25 27
 $\Delta = 133^\circ$. $h = 600$ km. Fiji Islands.

12 *iP·Z'* 10 05 46
ipP·Z' 06 13
esP·Z' 06 24
iS·E 14 42
esS·E 15 18
i·N 15 38
ePKKP·Z' 34 00
 $\Delta = 68^\circ$. $h = 100$ km. Mexico.

12 *eP·Z'*
 $\Delta = 82^\circ$. Formosa.

12 *ePP·Z'* 15 41 41
e·Z' 41 58
L·E 16 15
 $\Delta = 112^\circ$. New Guinea.

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April
 12 *ePKP·Z'* 21^h13^m00^s
i·Z' 13 14
ePP·Z' 14 31
e·E 20 26
ePS·E 24 32
 $\Delta = 122^\circ$. Samoa Islands.

14 *L·NE* 3 28

14 *eP·Z'* 7 29 02
 $\Delta = 48^\circ$. Alaska Peninsula.

15 *eP·Z'* 0 26 21
i·Z' 26 23
eS·E 35 25
L·E 47
 $\Delta = 68^\circ$. Japan.

15 *ePKP·Z'* 5 18 56
 $\Delta = 146^\circ$. Pacific Ocean.

15 *iP·Z'* 19 21 00
 $\Delta = 56^\circ$. Kamchatka.

April 16–May 11 no time service.

May
 11 *iP·Z'* 16 38 34
iPeP·Z' 39 31
 $\Delta = 57^\circ$. Kamchatka.
 12 *iP·Z'* 5 07 08
iS·NE 14 49
i·NE 15 07
eScS·NE 16 53
L·NE 23
 $\Delta = 55^\circ$. Komandorskie Islands.

12 *eSKS·NE* 10 11 13
iS·E 11 58
eSS·E 18 36
L·NE 10.5
 $\Delta = 98^\circ$. Argentina.

12 *L·NE* 22 07

14 *eP·Z'* 6 35 05
 $\Delta = 43^\circ$. Crete.

14 *iP·Z'NE* 6 44 59
i·E 45 09
iPP·NE 46 48
iS·NE 51 24
i·NE 51 39
eScS·NE 54 56
L·NE 7 00.5
 $\Delta = 43^\circ$. Crete.

May 14–19 no time service.

May
 19 *eP·Z'* 15^h27^m46^s
L·NE 46
 $\Delta = 59^\circ$. Afghanistan.

20 *iP·Z'* 11 37 34
 $\Delta = 76^\circ$, $h = 450$ km. Japan.

20 *cP·Z'* 19 45 48
L·E 20 07
ePKPPKP·Z' 14 31
 $\Delta = 65^\circ$. Kurile Islands.

20 *eP·Z'* 19 57 14
 $\Delta = 43^\circ$. Georgia S. S. R.

21 *iP·Z'* 7 01 15
L·NE 22
 $\Delta = 55^\circ$. Aleutian Islands.

21 *ePP·Z'Z* 11 52 45
eSKS·NE 59 30
ePS·NE 12 01 59
L·E 24
 $\Delta = 105^\circ$. Chile-Argentina border.

24 *iP·Z'ZNE* 19 28 37 —
ipP·Z'Z 28 59
iPeP·Z' 29 06 —
i·E 33 37
iS·NE 37 36
isS·NE 37 59
e·E 38 29
L·NE 52
iPKPPKP·Z' 56 53
 $\Delta = 68^\circ$, $h = 100$ km. Mexico.

25 *e·Z'* 14 26 25

26 *iP·Z'ZNE* 4 25 04 —
i·Z' 25 52
eS·E 35 05
ePS·N 35 57
L·NE 53
 $\Delta = 80^\circ$, $h = 100$ km. Ryukyu Islands.

26 *eP·Z'* 5 37 39
 $\Delta = 59^\circ$. Lesser Antilles.

26 *L·NE* 7 03

26 *ePn·Z'N* 13 30 24
e(S)·NE 31 48
 $\Delta = 6^\circ$. Greenland Sea.

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May
 29 *iPKP·Z'* 11^h01^m49^s
eSS·E 14.7
e·E 21.6
L·NE 43
 $\Delta = 128^\circ$, $h = 100$ km. New Hebrides Islands.

31 *L·NE* 6 08

31 *ePP·NE* 9 48 05
e·N 51 15
eSS·E 10 04.3
L·NE 23
 $\Delta = 116^\circ$. Solomon Islands.

31 *L·NE* 15 27

June
 2 *L·NE* 1 31

2 *iP·Z'* 2 50 22
ePP·Z' 53 43
eSKS·N 3 00 50
e·E 00 55
e·E 01 20
eSS·E 06.6
L·NE 21
 $\Delta = 85^\circ$. Batan Islands.

2 *L·NE* 4 36

2 *eP·Z'* 5 10 00
eSKS·NE 20 27
e·N 20 35
e·E 20 50
L·NE 35
 $\Delta = 85^\circ$. Batan Islands.

3 *L·E* 4 20

3 *eP·Z'* 5 52 58
i·Z' 53 01 —
L·NE 6 14

3 *L·E* 9 05

4 *eP·Z'* 12 40 04
 $\Delta = 45^\circ$, $h = 100$ km. Cook Inlet.

5 *L·NE* 21 11

7 *eP·Z'* 3 58 55
 $\Delta = 97^\circ$. Philippine Islands.

7 *iP·Z'* 8 48 05
 $\Delta = 97^\circ$. Philippine Islands.

June
 7 *L·NE* 14^h14^m

10 *iP·Z'* 4 24 01^s —
eS·E 30 23
L·NE 41
 $\Delta = 43^\circ$. Crete.

10 *eP·Z'* 4 36 30
 $\Delta = 72^\circ$. Tibet.

13 *iP·Z'* 12 10 13 —
 $\Delta = 45^\circ$. Turkey.

14 *eP·Z'* 0 25 18
ipP·Z' 25 32
i·Z' 25 39
iPP·N 29 40
iSKS·NE 35 48 N: +, E: +.
i·E 36 18
iS·NE 36 29
isS·NE 37 22
i·N 37 34
iPS·NE 38 23
L·NE 58
 $\Delta = 97^\circ$, $h = 100$ km. Bolivia.

16 *L·NE* 8 37

17 *ePKP·Z'* 21 04 27
 $\Delta = 122^\circ$, $h = 200$ km. Santa Cruz Islands.

18 *iPKP·Z'* 7 10 20
 $\Delta = 145^\circ$. Pacific Ocean.

18 *eP·Z'Z* 15 41 01
iPeP·Z' 42 02
ePP·NE 42 55
ePPP·N 44 07
i·N 44 53
iS·E 48 49
e·N 49 05
L·NE 58
M·NE 16 05 20^s. N: 60 μ , E: 150 μ .
 $\Delta = 56^\circ$. M = 7. Kamchatka.

18 *eP·Z'* 16 08 15
ePcP·Z' 09 18
 Repetition.

19 *eP·Z'* 1 49 37
 $\Delta = 75^\circ$. Panama.

19 *L·NE* 21 06

20 *L·NE* 17 02

22 *L·E* 13 36

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June			
22	<i>e-Z'</i>	14 ^h 25 ^m 11 ^s	
23	<i>iP-Z'</i>	14 44 43	
	<i>eS-NE</i>	52 30	
	<i>L-NE</i>	15 02	
	<i>e-E</i>	05.0	T = 6 sec.
		$\Delta = 56^\circ$, Nevada.	
25	<i>e-Z'</i>	6 47 08	
		$\Delta = 9^\circ$, Denmark Strait.	
25	<i>eP-Z'</i>	6 49 10	
	<i>e(S)-N</i>	50 40	
	<i>L-NE</i>	51.1	
		$\Delta = 9^\circ$, Denmark Strait.	
25	<i>e-Z'</i>	8 17 07	
25	<i>eP-Z'</i>	10 00 30	
		$\Delta = 56^\circ$, Aleutian Islands.	
26	<i>L-NE</i>	4 35	

June			
28	<i>eP-Z'</i>	4 ^h 25 ^m 12 ^s	
	<i>L-NE</i>	26.5	
		$\Delta = 7^\circ$, Iceland.	
28	<i>eP-Z'</i>	13 08 18	
	<i>L-E</i>	09.8	
		Repetition.	
28	<i>L-NE</i>	18 58	
28	<i>ePKP-Z'</i>	20 02 02	
	<i>iSKS-NE</i>	08 51	
	<i>iPS-NE</i>	12 43	
	<i>L-N</i>	38	
		$\Delta = 115^\circ$, Sunda Islands.	
29	<i>eSKS-N</i>	7 41 49	
	<i>eSKKS-N</i>	43 02	
	<i>ePS-N</i>	45 43	
	<i>ePPS-N</i>	47 03	
	<i>L-N</i>	8 11	
		$\Delta = 116^\circ$, Solomon Islands.	

November 1960.

HENRY JENSEN

Microseisms. Scoresbysund

1959													
Jan.													
		0h	6h	12h	18h	0h	6h	12h	18h	0h	6h	12h	18h
1		3 1.1 4.8	3 1.1 5.3	1 1.3 5.6	1 1.4 5.2	3 1.4 5.0	3 0.9 5.8	3 1.1 5.1	1 1.6 5.3	3 1.4 5.0	3 0.9 5.8	3 1.1 5.1	1 1.6 5.3
2		1 1.7 5.3	1 1.6 5.6	1 1.6 5.0	1 1.8 5.8	1 1.5 5.6	1 1.7 5.0	1 1.9 5.0	1 2.1 6.3	1 1.5 5.6	1 1.7 5.0	1 1.9 5.0	1 2.1 6.3
3		1 2.2 6.1	1 2.1 6.3	1 2.3 6.3	1 3.7 7.2	1 2.2 6.0	1 2.2 6.8	1 2.7 6.8	1 3.3 7.0	1 2.2 6.0	1 2.2 6.8	1 2.7 6.8	1 3.3 7.0
4		1 4.4 7.7	1 5.- 8.-	1 5.- 8.-	1 3.5 7.0	5.- 8.-	6.- 8.-	5.- 8.-	4.5 7.-	5.- 8.-	6.- 8.-	5.- 8.-	4.5 7.-
5		1 2.8 7.4	1 2.5 6.6	1 3.3 6.7	1 3.5 6.3	...	...	...	...	...	...	...	...
6		1 3.3 6.7	1 3.0 6.6	1 2.8 6.2	1 2.5 6.3	...	...	...	...	...	...	...	...
7		3 2.3 6.5	3 1.9 6.3	3 1.5 6.6	3 1.8 5.8	...	...	...	...	...	...	...	...
8		...	3 1.7 7.0	3 1.5 6.5	3 1.7 6.8	...	...	...	...	...	...	...	...
9		1 2.3 6.5	1 2.0 7.1	1 1.6 6.2	1 2.2 6.7	...	...	...	...	...	...	...	...
10		1 1.6 6.0	1 1.4 6.0	1 1.2 5.7	2 0.9 5.9	...	...	...	...	...	...	...	...
11		2 1.0 6.1	2 0.7 6.0	1 1.0 6.3	2 0.9 5.8	...	...	...	...	...	...	...	...
12		1 1.0 5.8	1 1.6 6.3	1 1.7 7.0	1 2.5 6.4	...	...	...	...	...	...	...	...
13		1 2.0 6.5	1 3.0 7.0	1 3.- 7.-	1 3.0 6.8	...	...	...	...	...	...	...	...
14		1 2.0 6.4	1 1.0 6.0	3 1.0 6.0	3 0.8 6.0	...	...	...	...	...	...	...	...
15		3 0.6 6.0	3 0.6 6.0	3 0.4 6.0	3 0.3 6.2	...	...	...	...	...	...	...	...
16		3 1.- 6.0	3 1.- 6.-	3 1.- 6.-	3 1.- 6.-	...	...	...	...	...	...	...	...
17		3 1.0 6.8	1 0.9 6.0	3 1.0 6.0	1 1.5 6.2	...	...	...	...	...	...	...	...
18		1 2.- 6.-	1 2.5 7.0	1 2.2 6.5	1 2.3 6.3	...	...	...	...	...	...	...	...
19		1 1.8 6.8	1 1.5 7.0	1 1.6 7.0	1 1.3 6.8	...	...	...	...	...	...	...	...
20		1 1.0 6.8	1 1.2 6.3	1 1.6 7.0	1 1.8 6.8	...	...	...	...	...	...	...	...
21		1 2.0 6.7	1 2.2 6.8	1 2.5 7.5	1 2.0 7.3	...	...	...	...	...	...	...	...
22		1 1.4 7.3	...	1 1.0 6.2	1 1.5 7.0	...	...	...	...	...	...	...	...
23		1 1.7 6.7	1 1.0 6.8	1 1.3 6.7	...	...	...	...	...	...	...	...	...
24		1 1.7 6.5	1 2.0 7.0	1 2.0 6.8	1 2.2 7.0	...	...	...	...	...	...	...	...
25		1 1.8 6.0	1 1.4 6.0	1 1.5 6.5	3 1.0 6.0	...	...	...	...	...	...	...	...
26		3 0.7 6.0	3 0.5 6.2	2 0.4 5.8	2 0.4 5.5	...	...	...	...	...	...	...	...
27		3 0.8 6.0	3 1.0 5.5	1 1.4 5.8	3 1.0 5.8	...	...	...	...	...	...	...	...
28		1 1.5 6.2	1 3.0 6.5	...	1 2.0 6.2	...	...	...	...	...	...	...	...
29		1 1.7 6.5	3 1.0 6.2	3 1.0 6.0	3 1.0 5.7	...	...	...	...	...	...	...	...
30		...	...	2 0.6 6.8	1 2.5 7.0	...	...	...	...	...	...	...	...
31		1 4.- 7.0	1 4.0 7.5	1 3.0 6.5	1 2.0 6.2	...	...	...	...	...	...	...	...

Microseisms. Scoresbysund

1959 June	Z				N				E				1959 June
	0h	6h	12h	18h	0h	6h	12h	18h	0h	6h	12h	18h	
1	..	..	..	..	2 0.3 4.8	2 0.3 4.2	2 0.3 4.3	2 0.2 4.8	2 0.2 4.2	2 0.2 4.8	2 0.2 4.4	2 0.2 4.7	1
2	..	..	..	..	2 0.2 5.0	..	2 0.3 5.0	2 0.3 4.7	2 0.2 4.2	..	1 0.3 4.8	1 0.3 5.0	2
3	..	..	..	..	1 0.5 5.0	1 0.5 5.3	1 0.6 5.1	1 0.5 4.8	2 0.3 5.0	..	3 0.6 5.0	3 0.5 6.0	3
4	..	..	..	..	1 0.5 5.0	1 0.5 5.2	1 0.7 6.0	1 0.7 5.6	1 0.5 5.0	3 0.4 4.7	3 0.6 5.3	3 0.8 5.8	4
5	..	..	..	2 0.6 5.0	1 0.6 5.0	2 0.2 5.2	2 0.2 5.0	2 0.2 5.0	1 0.5 5.2	2 0.2 4.7	2 0.2 5.3	2 0.2 5.0	5
6	2 0.5 5.2	2 0.5 5.3	..	..	2 0.3 5.3	2 0.2 5.0	2 0.4 5.3	2 0.3 5.0	2 0.2 5.0	2 0.3 5.3	..	2 0.4 5.2	6
7	2 0.6 5.2	1 1.4 5.3	1 1.1 5.0	1 2.0 5.2	3 0.7 5.0	3 0.9 5.2	3 0.7 5.0	1 1.0 5.2	3 0.5 5.0	3 0.8 5.0	3 0.7 5.0	1 0.8 5.0	7
8	1 2.2 5.3	1 2.6 5.4	1 2.0 4.9	..	1 1.3 5.0	1 1.2 5.6	1 0.9 5.0	3 0.8 5.0	1 1.2 5.0	1 1.3 5.3	1 0.8 6.0	1 0.7 5.0	8
9	..	..	..	..	1 0.9 5.0	3 0.6 4.6	3 0.8 4.2	3 0.8 5.0	3 0.7 4.3	3 0.6 4.8	1 0.7 5.0	1 1.2 5.1	9
10	..	..	..	2 0.3 5.5	3 0.6 5.5	3 0.2 6.0	3 0.2 5.2	2 0.2 5.3	1 0.6 5.7	3 0.3 5.0	3 0.2 5.5	2 0.2 5.5	10
11	2 0.3 5.6	2 0.3 5.0	2 0.2 4.9	3 0.7 4.8	2 0.2 4.8	2 0.2 4.6	2 0.2 4.8	2 0.4 5.0	2 0.2 5.3	2 0.2 4.5	2 0.2 4.7	3 0.5 4.5	11
12	1 1.1 4.6	1 2.1 5.1	1 2.0 5.2	1 1.0 5.0	1 0.7 5.0	1 1.1 5.1	1 1.2 5.0	1 0.8 4.8	1 0.6 5.0	1 1.2 5.0	1 1.2 5.2	1 0.8 5.0	12
13	..	..	..	..	3 0.6 5.3	2 0.2 5.5	2 0.2 5.0	2 0.2 5.4	3 0.6 5.3	2 0.2 5.7	2 0.2 5.2	2 0.2 5.3	13
14	..	..	..	..	2 0.2 5.1	2 0.2 5.2	2 0.2 4.9	2 0.2 4.9	2 0.2 5.7	2 0.2 4.8	2 0.2 5.6	2 0.3 5.8	14
15	..	..	..	..	2 0.2 5.4	2 0.2 5.0	2 0.2 5.0	2 0.2 5.0	2 0.3 5.0	2 0.3 5.5	2 0.2 4.8	2 0.2 5.0	15
16	..	..	..	..	2 0.2 4.6	3 0.2 4.2	3 0.2 4.2	3 0.5 4.9	2 0.2 4.6	3 0.2 4.5	3 0.3 4.3	1 0.4 4.5	16
17	1 1.2 5.1	3 0.8 4.8	3 0.7 5.0	3 0.8 4.8	1 0.5 5.0	1 0.4 5.4	1 0.5 5.2	3 0.5 5.3	1 0.7 4.8	2 0.4 5.2	3 0.5 4.8	3 0.6 5.3	17
18	1 1.3 5.7	3 1.0 5.9	3 1.2 6.0	3 1.0 5.7	3 0.8 5.8	3 0.7 5.4	3 0.5 6.0	3 0.5 5.8	1 1.1 5.5	1 0.7 5.7	1 0.8 5.7	3 0.6 5.8	18
19	3 1.0 5.8	3 0.7 5.7	3 0.5 6.0	3 0.4 5.5	3 0.6 5.2	3 0.4 5.3	3 0.4 5.8	3 0.5 5.8	3 0.7 6.0	3 0.4 5.8	3 0.4 5.0	3 0.4 5.3	19
20	2 0.4 5.8	2 0.5 5.5	2 0.4 5.8	2 0.3 5.0	3 0.4 5.8	3 0.3 5.3	3 0.3 6.0	3 0.2 5.2	3 0.3 5.8	3 0.3 5.3	3 0.3 5.0	3 0.3 5.0	20
21	2 0.3 4.8	2 0.3 5.3	2 0.3 4.9	2 0.3 4.9	3 0.4 4.8	3 0.4 4.7	3 0.3 4.5	2 0.3 4.5	2 0.3 5.0	2 0.3 4.8	2 0.3 4.7	2 0.2 4.8	21
22	2 0.3 4.8	2 0.2 4.8	2 0.2 4.9	2 0.2 4.5	2 0.2 4.8	2 0.2 4.7	2 0.2 4.8	2 0.1 4.5	2 0.3 4.6	2 0.2 4.5	2 0.2 4.5	2 0.2 4.7	22
23	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	23
24	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	24
25	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	25
26	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	26
27	..	..	..	..	..	..	..	..	..	..	..	..	27
28	..	..	..	..	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.-	2 0.1 4.2	28
29	..	..	..	3 0.2 4.-	2 0.2 4.4	2 0.2 4.3	2 0.2 4.6	2 0.2 4.8	3 0.1 4.0	3 0.1 4.7	3 0.1 5.0	3 0.1 4.3	29
30	3 0.2 4.9	3 0.2 4.5	3 0.2 4.8	3 0.3 4.3	2 0.2 4.6	2 0.1 4.5	2 0.1 4.5	2 0.1 4.6	3 0.2 4.8	3 0.1 5.0	3 0.1 4.8	3 0.1 4.7	30

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark



Bulletin of the seismological station

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

Lithologic foundation: gneiss

InstrumentsGalitzin-Wilip. *N* and *E*. $T_p = T_g = 12 \text{ sec,}$ $\mu^2 = 0,$ $\frac{Ak}{\pi l} = 300$ or V_{\max} abt. 1000.Galitzin-Wilip. *Z*. $T_p = 9 \text{ sec,}$ $T_g = 10 \text{ sec,}$ $\mu^2 = 0,$ $\frac{Ak}{\pi l} = 200$ or V_{\max} abt. 600.Grenet *Z'*. $T_p = 1 \text{ sec,}$ $T_g = \frac{1}{4} \text{ sec.}$ V_{\max} abt. 30000.**Seismological Readings**

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often due to BCIS or USCGS. The periods given are periods of full oscillations. The amplitudes are single amplitudes of the ground in microns. + indicates ground motion towards the north, towards the east, or upwards. — indicates the opposite direction. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.

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. All readings are due to the Galitzin instruments.

Scoresbysund 1959

July

1 *iP·Z'Z* 2^h39^m06^s
epP·Z'Z 41 00
e·ZN 42 03
e·E 46 55
iS·NE 48 30
eSP·Z 49 28
esS·E 51 46
eSS·N 53.9
 $\Delta = 80^\circ$, $h = 550$ km. Bonin Islands.

2 *ePKP·Z'* 11 45 43
 $\Delta = 127^\circ$, $h = 650$ km. Fiji Islands.

2 *iPKP·Z'* 11 52 18
 $\Delta = 127^\circ$, $h = 650$ km. Fiji Islands.

3 *iP·Z'* 5 29 42
L·NE 44
 $\Delta = 47^\circ$, Kodiak Island.

3 *iPKP·Z'Z* 18 14 13
ePP·N 15 56
L·NE 53
 $\Delta = 125^\circ$, New Hebrides Islands.

3 *iPKP·Z'Z* 18 14 54
eSKS·N 22 06
eSKKS·N 23 52
iPS·N 26 53
 Repetition.

4 *eP·NE* 7 42 22
eS·NE 43 33
 $\Delta = 6^\circ$, Arctic Ocean. No verticals working.

6 *iP·Z'Z* 9 23 10
ipP·Z'Z 25 25
iSKS·NE 32 50
eSKKS·NE 33 27
iS·NE 33 55
iSP·Z'ZNE 35 30
iPS·NE 35 40
e·NE 39 30
 $\Delta = 101^\circ$, $h = 600$ km. Argentina.

6 *iP·Z'Z* 9 36 19
ipP·Z'Z 38 25
ePP·Z'Z 40 37
iSKS·ZNE 46 02
iSKKS·NE 46 37
iS·NE 47 07
iSP·Z'ZNE 48 40
 $\Delta = 101^\circ$, $h = 600$ km. Argentina.

7 *i·Z'* 13 47 57

8 *iP·Z'ZNE* 2 04 10 5 μ , Z: -, N: + 4 μ , E: + 16 μ .
iS·ZNE 04 18
 $\Delta = 1^\circ$, East of the station.

July

8 *iP·Z'E* 2^h27^m08^s
iS·E 27 19
 Aftershock.
 8 *eP·Z'* 2 45 21
iS·Z' 45 33
 Aftershock.
 8 *eP·Z'* 4 11 12
 $\Delta = 65^\circ$, $h = 100$ km. Kurile Islands.

9 *e(L)·NE* 15 40 33
F·NE 41.3
 Aftershock to 8^d2^h?

9 *eP·Z'* 16 18 46
e·Z'N 18 55
epP·Z'N 19 12
e·E 22 28
iPP·NE 22 58
iSKS·NE 29 08
iS·NE 29 50
i·E 30 05
isS·N 30 43
eSS·NE 36 20
L·NE 51
 $\Delta = 97^\circ$, $h = 100$ km. Chile-Bolivia border.

11 *ePP·Z'* 12 22 56
e·Z' 23 12
e·N 26 59
eSS·NE 40 04
 $\Delta = 128^\circ$, Indian Ocean.

12 *iPKP·Z'* 0 42 46
 $\Delta = 127^\circ$, $h = 400$ km. Fiji Islands.

13 *e(L)·NE* 1 41 17
 $\Delta = 5^\circ$, Jan Mayen.

13 *iP·Z'Z* 12 38 26
iPcP·Z' 39 26
iS·E 46 14
 $\Delta = 56^\circ$, Aleutian Islands.

The station closed for repair 13^d13^h—18^d14^h.

18 *eP·Z'* 20 07 45
i·Z' 07 48
iPP·Z'NE 11 19
iSKS·NE 18 04
iS·NE 18 24
eSS·E 24 14
i·E 31 04
 $\Delta = 90^\circ$, $h = 150$ km. Philippine Islands.

19 *iP·Z'NE* 15 19 00
ipP·Z'NE 19 55
i·E 22 10
iSKS·NE 29 14
iS·NE 29 40
 $\Delta = 92^\circ$, $h = 200$ km. Peru.

Scoresbysund 1959

July

20 *ePP·NE* 2^h59^m19^s
epPP·NE 3 01 00
iSKS·NE 04 30
 $\Delta = 109^\circ$, $h = 500$ km. Java Sea.

No recording 20^d12^h—26^d23^h.

27 *eP·Z'* 0 54 11
e(L)·NE 55 24
 $\Delta = 4^\circ$, Jan Mayen.
 No recording 29^d 17^h—aug. 2, 23^h.

August

7 *eP·Z'NE* 10 52 20
ePP·NE 54 13
iS·NE 59 24
eSS·NE 11 03.0
L·NE 10
 $\Delta = 49^\circ$, Kodiak Island.

7 *eP·Z'N* 21 54 13
ePP·NE 56 06
iS·NE 22 01 16
eSS·NE 04.4
L·NE 09
 $\Delta = 49^\circ$, Kodiak Island.

8 *eP·Z'N* 0 57 15
ePPP·N 1 00 21
eS·NE 04 51
L·NE 13
 $\Delta = 54^\circ$, Kamchatka.

9 *L·E* 1 19.7

11 *L·NE* 13 42.8
 Jan Mayen?

11 *L·NE* 14 21.3
 Jan Mayen?

11 *e(P)·Z'* 14 21 33
 $\Delta = 5^\circ$, Jan Mayen.

11 *L·NE* 15 05.2
 Jan Mayen.

11 *L·N* 16 13.1
 Jan Mayen.

12 *L·NE* 1 15

12 *L·Z'NE* 1 32.6

12 *eSKS·N* 10 24 24
eSS·NE 36.0
L·NE 59
 $\Delta = 124^\circ$, Fiji Islands.

August

12 *L·NE* 21^h22^m
F 27

15 *iP·Z'NE* 9 09 34 -
ePP·E 12 49
iS·NE 19 57
L·NE 37
 $\Delta = 83^\circ$, Formosa.

15 *eP·Z'* 18 51 27
 $\Delta = 55^\circ$, Kamchatka.

16 *L·NE* 2 02

17 *eP·Z'* 1 15 04
 $\Delta = 83^\circ$, Formosa.

17 *iP·Z'* 1 40 21
(e)S·NE 46 (01) in the time break.
L·NE 54
 $\Delta = 36^\circ$, Albania.

17 *ePP·N* 21 24.6
eSKS·N 30.2
ePS·N 34 46
L·NE 22 00
 $\Delta = 118^\circ$, Solomon Islands.

18 *iP·Z'* 0 46 15 +
 $\Delta = 83^\circ$, $h = 200$ km. Formosa.

18 *(i)P·Z'* 6 46 04 in the time break.
iS·N 53 04
 $\Delta = 48^\circ$, Montana, U. S. A.

18 *iP·Z'* 8 05 01
 Repetition.

18 *eP·Z'* 8 50 31
 Repetition.

18 *L·N* 11 28
 Repetition.

18 *iP·Z'* 15 34 50 +
iS·N 41 55
eSS·N 45 20
L·N 51
 Repetition.

18 *(i)P·Z'* 15 44 32
 Repetition?

19 *eS·N* 4 19 51
L·N 26
 Repetition.

20 *eP·Z'* 7 31 26

$\Delta = 88^\circ$, Peru.

Scoresbysund 1959

Scoresbysund 1959

August

21 *ePKP2-Z'* 8^h23^m50^s
 $\Delta = 158^\circ$. South of Australia.21 *ePKP2-Z'* 8 26 07
Repetition.21 *ePKP2-Z'* 9 58 23
Repetition.23 *eP-Z'* 22 28 37
 $\Delta = 36^\circ$. Western Mediterranean Sea.24 *ePP-Z'* 21 51 03
eSKS-N 56.7
i-E 59 10
eSS-NE 22 07.3
L-NE 22.5
 $\Delta = 120^\circ$. Solomon Islands.26 *iP-Z'ZNE* 8 36 27 *Z', Z: +*
iS-NE 45 18
iPS-NE 45 30
M-NE 9 05 20^s. *N: 22 μ , E: 22 μ .*
ePKPPKP-Z' 04 53
 $\Delta = 67^\circ$. $M = 6\frac{1}{2}$. Mexico.26 *iP-Z'Z* 10 36 30 +
eS-NE 43 28
eSS-NE 46.6
L-NE 50.8
M-NE 54 20^s. *N: 12 μ , E: 18 μ .*
 $\Delta = 49^\circ$. $M = 6\frac{1}{4}$. Queen Charlotte Islands.28 *L-NE* 10 3628 *eP-Z'* 12 15 31
L-NE 29
 $\Delta = 42^\circ$. Alaska.29 (*eP-Z'NE*) 17 12 (23) in the timebreak.
eS-NE 19 47
e-NE 20 05
eSS-NE 23 33
L-NE 28
M-NE 33 20^s. *N: 16 μ , E: 16 μ .*
 $\Delta = 52^\circ$. $M = 6\frac{1}{2}$. Baikal Lake, U. S. S. R.30 *iP-Z'* 3 32 03
L-NE 44
 $\Delta = 37^\circ$. Mediterranean Sea.30 *L-NE* 22 5431 *iP-Z'* 9 15 34 -
e-Z' 16 10
 $\Delta = 55^\circ$. Aleutian Islands.

September

1 *L-E* 5^h47^m1 *iP-Z'ZNE* 7 32 33 +
e(S)-E 36 07
L-NE 37
 $\Delta = 19^\circ$. Mid Atlantic Ridge.1 *eP-Z'Z* 11 44 49
eS-NE 50 34
L-NE 57
 $\Delta = 37^\circ$. Albania.3 *ePP-ZNE* 6 46 42
e-ZNE 50 45
eSKS-NE 52 47
ePS-NE 56 07
L-NE 7 21
 $\Delta = 111^\circ$. Celebes.11 *L-NE* 12 42.312 *L-NE* 2 4614 *L-NE* 10 0314 *L-NE* 14.314 *ePKP-Z'Z* 14 29 01
ePP-NE 31 35
e-ZE 31 58
ePKS-E 32 37
 $\Delta = 135^\circ$. Kermadec Islands.14 15^h—20^h. *L* from several quakes.14 *L-NE* 23 3015 *ePKP-Z'Z* 6 19 03
ePP-ZNE 21 38
ePKS-NE 22 38
eSS-E 39 38
L-NE 7.1
 $\Delta = 135^\circ$. Kermadec Islands.15 *iPKP-Z'* 11 23 40
ipPKP-Z'Z 25 57
iPP-Z'ZN 26 09
eSS-NE 42 29
 $\Delta = 130^\circ$. $h = 600$ km. Fiji Islands.16 *iP-Z'* 5 21 57 +
 $\Delta = 43^\circ$. Crete.16 *e-N* 16 20 46
L-NE 17 0916 *i-Z'* 17 02 59

September

17 *L-NE* 22^h02^m17 *L-NE* 22 4718 *iPKP-Z'* 12 20 18 +
L-N 13 01
 $\Delta = 128^\circ$. Sandwich Group.24 *iP-Z'* 5 49 00 -
eS-NE 53.4
 $\Delta = 25^\circ$. Arctic Ocean.25 *iP-Z'Z* 2 49 23
iSKS-NE 59 44
e-NE 3 00 09
ePS-NE 00 44
eSS-NE 05 02
L-NE 16
 $\Delta = 84^\circ$. Formosa.26 *iP-Z'* 8 30 27
eS-NE 38 22
L-NE 8.8
 $\Delta = 56^\circ$. Oregon, U. S. A.29 *L-NE* 16 4230 *ePKP-Z'* 20 45 08
 $\Delta = 128^\circ$. New Hebrides Islands.

October

5 *eP-Z'* 18 01 46
eS-NE 06 16
L-E 09.5
 $\Delta = 25^\circ$. Arctic Ocean.5 *eP-Z'* 18 16 40
Repetition.5 *eP-Z'ZN* 18 33 10
eS-NE 37.6
L-E 40
Repetition.5 *iP-Z'* 20 41 12
L-NE 51
 $\Delta = 37^\circ$. Albania.7 *iP-Z'* 8 37 49
L-NE 50
 $\Delta = 37^\circ$. Albania.13^d13^h—18^d20^h no recording.19 *iPKP-Z'* 16 14 35 -
L-NE 58
 $\Delta = 124^\circ$. Sandwich Group.

October

26 *iP-Z'Z* 7^h46^m34^s +
eS-NE 55 56
eSKS-NE 56 39
L-NE 8 12
 $\Delta = 72^\circ$. Japan.26 *iP-Z'* 10 38 52 +
 $\Delta = 58^\circ$. $h = 150$ km. Kamchatka.27 *iP-Z'* 7 03 18 +
eS-NE 11 51
L-NE 21
 $\Delta = 63^\circ$. $h = 100$ km. Kurile Islands.27 *i-Z'* 19 54 44 +29 *iP-Z'* 14 40 15 +
eS-E 48 19
 $\Delta = 65^\circ$. $h = 550$ km. China-Korea border.

November

1 *e-Z'* 9 28 51
eSn-Z' 29 55
eS-Z'* 30 14
eSg-Z' 30 42
 $\Delta = 7^\circ$. Northeastern Greenland.15 (*iP-Z'*) 10 34 56 in the time break.
 $\Delta = 58^\circ$. Kashgar, China.15 *iP-NE* 17 16 20 compression.
iPP-NE 17 50
iS-NE 22 20
eSS-NE 25 03
L-NE 31
No verticals working.
 $\Delta = 40^\circ$. Ionian Sea.19 *ePP-Z'* 11 28 05
eSKKS-N 34.7
e-Z' 37 52
eSS-E 44.1
 $\Delta = 115^\circ$. New Guinea.19 *iP-Z'* 14 08 09
 $\Delta = 41^\circ$. Turkey.22 *e-Z'* 0 45 4222 *ePKP-Z'* 16 46 21
 $\Delta = 147^\circ$. South Pacific Ocean.23 *i-Z'* 2 49 27
e-Z' 49 3926 *ePKP-Z'* 7 24 59
L-NE 8 09
 $\Delta = 116^\circ$. Sumatra.

Scoresbysund 1959

November
26 ePKP-Z' 23^h28^m03^s -
L·N 24 04
Δ = 116°. Sumatra.
27 iP·Z' 0 29 57 -
Δ = 40°. Greece.
30 iP·Z' 15 26 57 +
i·Z' 27 03 -
Δ = 46°. Alaska Peninsula.
December
1 iP·Z' 12 46 20 -
Δ = 39°. Greece.
1 L·N 16 22
2 L·N 10 30
8 iP·Z' 8 09 16
Δ = 4°. North of Iceland.
14 iP·Z' 22 10 26
Δ = 55°. Aleutian Islands.

December
14 iPKP-Z' 23^h41^m09^s -
Δ = 131°. Sandwich Group.
18 iP·Z' 16 34 24 +
L·NE 52
Δ = 56°. Aleutian Islands.
21 eP·Z' 11 30 39
eS·NE 40 05
L·NE 54
Δ = 72°. Gulf of Aden.
23 iP·Z' 3 57 54 -
Δ = 49°. Alaska Peninsula.
27 iP·Z 16 02 21 -
L·Z 20
Z', N, and E out of work.
Δ = 54°. Kamchatka.
28 eS·N 7 38 28
L·N 49
Z', Z, and E out of work.
Δ = 57°. Kamchatka.
March 1961.

HENRY JENSEN

Microseisms, Scoresbysund

1959 July	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Z	2 0.6 5.6	2 0.6 5.0	2 0.6 5.2	2 0.6 5.2	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0	2 0.6 5.0			
N	2 0.5 6.0	2 0.4 5.2	2 0.1 4.8	2 0.1 4.8	2 0.6 5.1	2 0.5 5.0	2 0.5 5.0	0.1 4.0	2 0.1 4.5	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0			
E	2 0.4 5.8	2 0.2 5.1	3 0.1 4.9	3 0.1 4.9	1 0.5 5.3	1 0.5 5.0	1 0.5 5.0	2 0.1 4.7	2 0.1 4.3	3 0.1 4.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0			
18 ^h	2 0.3 5.4	2 0.3 5.3	2 0.2 5.3	2 0.3 6.0	1 0.5 4.8	3 0.2 4.5	...	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0			
12 ^h	2 0.3 5.0	2 0.2 5.5	2 0.3 5.5	2 0.3 5.5	1 0.7 5.2	3 0.2 4.8	2 0.1 4.3	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0			
6 ^h	2 0.3 5.0	2 0.3 5.3	3 0.2 5.2	3 0.2 5.2	1 0.6 5.0	3 0.3 4.8	2 0.1 4.3	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0		
0 ^h	2 0.4 5.8	2 0.2 5.1	3 0.1 4.9	3 0.1 4.9	1 0.5 5.3	1 0.5 5.0	2 0.1 4.7	2 0.1 4.3	3 0.1 4.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0	0.1 3.0		
18 ^h	2 0.5 5.5	2 0.3 4.9	2 0.5 5.8	2 0.5 5.8	2 0.6 5.6	2 0.1 4.5	...	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0		
12 ^h	2 0.5 5.4	2 0.4 5.0	2 0.3 5.2	2 0.3 5.2	2 0.7 5.7	2 0.2 4.5	2 0.1 4.6	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0		
6 ^h	2 0.6 5.7	2 0.4 5.3	2 0.2 5.0	2 0.3 5.2	2 0.8 5.0	2 0.2 4.9	0.1 4.0	2 0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0		
0 ^h	2 0.5 6.0	2 0.4 5.2	2 0.1 4.8	2 0.1 4.8	2 0.6 5.1	2 0.5 5.0	0.1 4.0	2 0.1 4.5	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0	0.1 4.0		
18 ^h	2 0.7 5.0	2 0.7 5.0	3 0.2 4.8	3 0.2 4.8	
12 ^h	2 0.6 5.5	2 0.6 5.5	3 0.2 5.0	3 0.1 4.5	
6 ^h	2 0.6 5.2	2 0.6 5.2	3 0.3 5.2	3 0.1 4.5	
0 ^h	2 0.6 5.6	2 0.6 5.0	2 0.6 5.2	2 0.6 5.2	2 0.6 5.1	3 0.1 4.5	2 0.1 4.3	2 0.1 4.3	3 0.3 4.3	
18 ^h	2 0.7 5.0	2 0.7 5.0	3 0.2 4.8	3 0.2 4.8
12 ^h	2 0.6 5.5	2 0.6 5.5	3 0.2 5.0	3 0.1 4.5
6 ^h	2 0.6 5.2	2 0.6 5.2	3 0.3 5.2	3 0.1 4.5	2 0.1 4.3	2 0.1 4.3	3 0.3 4.3
0 ^h	2 0.6 5.6	2 0.6 5.0	2 0.6 5.2	2 0.6 5.2	2 0.6 5.1	3 0.1 4.5	2 0.1 4.3	2 0.1 4.3	3 0.3 4.3

Microseisms. Scoresbysund

Table with columns for date (1959 Oct.), Z, N, E, and time intervals (0h, 6h, 12h, 18h) for each day from Oct 1 to Oct 31.

Microseisms. Scoresbysund

Table with columns for date (1959 Nov.), Z, N, E, and time intervals (0h, 6h, 12h, 18h) for each day from Nov 1 to Nov 30.

Microseisms. Scoresbysund

1959		N												E											
Dec.		0 ^h	6 ^h	12 ^h	18 ^h	0 ^h	6 ^h	12 ^h	18 ^h	0 ^h	6 ^h	12 ^h	18 ^h	0 ^h	6 ^h	12 ^h	18 ^h								
1	1	3 1.9 4.0	3 2.0 6.0	3 2.0 5.3	3 1.2 5.2	3 1.3 5.5	3 1.2 5.5	3 1.0 5.5	3 1.0 5.3	..	..	..	..	..	..	..	..
2	2	3 1.0 5.2	3 1.2 6.2	3 2.0 5.8	3 3.0 5.9	2 0.9 5.2	3 1.2 5.7	3 1.4 6.2	1 1.7 6.2	..	..	..	..	..	..	..	..
3	3	1 5.2 6.8	1 5.5 6.7	1 7.5 6.4	1 8.0 6.4	1 3.4 6.2	1 5.0 6.8	1 3.5 6.5	1 4.5 6.3	..	..	..	..	..	..	..	..
4	4	1 6.5 6.2	1 4.5 5.7	1 4.0 6.0	3 3.0 4.3	1 4.0 5.8	1 3.0 6.6	1 2.5 6.7	3 2.8 5.9	..	..	..	..	..	..	..	..
5	5	3 3.3 5.0	1 4.0 4.8	1 4.0 5.0	1 4.0 5.0	3 1.8 6.0	3 2.3 6.2	3 2.2 5.5	3 1.7 5.8	3 2.2 5.2	3 2.5 5.8	1 2.8 5.5	1 2.4 5.5	3 2.2 5.2	3 2.5 5.8	1 2.8 5.5	1 2.4 5.5								
6	6	1 3.3 4.9	3 1.8 5.3	..	..	1 1.6 5.0	3 1.8 5.2	1 1.7 5.2	1 1.6 6.2	1 1.5 4.7	1 1.7 5.2	1 1.4 6.1	1 1.5 5.7	1 1.5 4.7	1 1.7 5.2	1 1.4 6.1	1 1.5 5.7						
7	7	1 2.2 5.0	..	..	..	1 1.9 5.5	1 2.4 6.3	1 3.0 6.8	1 4.5 6.9	1 1.6 5.8	1 1.8 5.3	1 2.0 6.3	1 3.0 6.3	1 1.6 5.8	1 1.8 5.3	1 2.0 6.3	1 3.0 6.3					
8	8	1 9.- 7.-	..	..	1 11.- 6.8	1 10.- 7.-	1 10.- 7.-	1 10.- 7.-	1 8.- 7.-	1 9.- 7.-	1 10.- 7.-	1 9.- 7.-	1 7.- 7.-	1 9.- 7.-	1 10.- 7.-	1 9.- 7.-	1 7.- 7.-						
9	9	1 8.- 7.0	1 7.5 6.3	1 5.0 6.7	1 3.3 6.7	1 5.- 7.-	1 4.5 6.7	1 3.0 6.7	1 2.4 6.8	1 5.- 7.-	1 5.0 7.0	1 3.0 6.3	1 1.8 6.0	1 5.- 7.-	1 5.0 7.0	1 3.0 6.3	1 1.8 6.0								
10	10	1 3.0 5.8	1 2.3 5.6	1 2.2 5.2	1 2.4 5.5	1 1.7 6.6	..	..	..	1 1.6 6.2	1 1.6 5.6	3 1.0 6.0	1 1.4 6.0	1 1.6 6.2	1 1.6 5.6	3 1.0 6.0	1 1.4 6.0					
11	11	1 3.0 6.3	1 3.3 6.2	1 1.7 5.0	1 1.4 5.2	1 2.0 6.6	1 1.6 6.8	1 1.2 5.8	1 1.0 6.0	1 2.2 6.3	1 1.5 6.1	1 1.3 5.7	1 1.1 5.6	1 2.2 6.3	1 1.5 6.1	1 1.3 5.7	1 1.1 5.6								
12	12	3 1.1 5.2	2 1.0 5.0	2 0.8 4.5	..	3 0.9 5.0	3 0.7 5.2	3 0.7 5.5	3 0.6 6.0	3 0.7 5.5	3 0.6 4.7	2 0.5 4.9	3 0.6 4.4	3 0.7 5.5	3 0.6 4.7	2 0.5 4.9	3 0.6 4.4								
13	13	..	..	..	..	2 0.3 5.0	2 0.4 5.8	2 0.5 5.0	3 0.5 5.2	3 0.7 5.5	3 0.4 4.5	3 0.4 5.2	3 0.5 4.8	3 0.3 4.8	3 0.4 4.5	3 0.4 5.2	3 0.5 4.8				
14	14	1 2.0 5.3	1 2.6 5.4	1 3.5 5.5	1 11.- 5.5	1 1.4 5.3	1 1.6 6.0	1 3.0 5.2	1 4.0 5.5	1 1.6 5.8	1 1.6 5.7	1 2.0 5.5	1 4.5 5.2	1 1.4 5.3	1 1.6 6.0	1 3.0 5.2	1 4.0 5.5								
15	15	1 15.- 6.-	1 15.- 6.-	1 15.- 6.-	1 12.- 6.-	1 7.- 6.-	1 8.- 6.-	1 8.- 6.-	1 8.- 6.-	1 8.- 6.-	1 8.- 6.-	1 8.- 6.-	1 8.- 6.-	1 8.- 6.-	1 8.- 6.-	1 8.- 6.-	1 8.- 6.-								
16	16	1 11.- 5.8	1 7.5 6.5	1 5.5 6.3	1 4.5 6.2	1 6.- 6.-	1 4.0 6.5	1 2.6 6.3	1 2.2 6.0	1 6.- 6.-	1 4.0 6.5	1 2.6 6.3	1 2.2 6.0	1 6.- 6.-	1 4.0 6.5	1 2.6 6.3	1 2.2 6.0								
17	17	1 3.3 6.2	1 6.5 5.8	1 10.- 7.-	..	1 1.7 6.8	1 3.5 6.2	1 7.- 7.-	1 9.- 7.-	1 1.7 6.8	1 3.5 6.2	1 7.- 7.-	1 9.- 7.-	1 2.4 6.2	1 3.5 6.8	1 6.- 7.-	1 9.- 7.-								
18	18	1 9.- 6.8	1 5.5 6.8	1 7.5 6.3	1 5.5 6.6	1 7.- 7.-	1 4.5 6.6	1 3.5 6.3	1 3.5 6.5	1 7.- 7.-	1 4.5 6.8	1 4.5 6.5	1 3.0 6.6	1 7.- 7.-	1 5.5 6.8	1 4.5 6.5	1 3.0 6.6								
19	19	..	1 4.0 6.0	1 4.0 6.3	..	..	1 2.2 6.0	1 2.4 5.8	1 4.0 6.6	..	..	..	..	..	..	..	..
20	20	1 6.0 6.0	..	1 6.0 6.0	1 5.5 6.0	1 3.0 6.8	1 6.- 7.-	1 3.5 6.5	..	1 3.0 6.8	1 6.- 7.-	1 3.5 6.5	..	1 3.5 6.5	1 4.5 6.3	1 3.0 6.4	1 3.0 6.0								
21	21	1 4.0 6.2	1 3.2 6.2	..	3 2.2 5.5	1 2.6 6.2	1 1.7 6.2	..	3 1.0 5.7	1 2.6 6.2	1 1.7 6.2	..	3 1.0 5.7	1 2.5 6.3	3 1.5 6.0	..	3 1.1 5.6								
22	22	3 1.2 5.2	1 2.7 5.0	3 2.5 5.5	3 1.5 5.0	3 1.5 5.5	1 2.1 6.0	3 1.3 5.8	3 1.5 5.0	3 1.5 5.5	1 2.1 6.0	3 1.3 5.8	3 1.5 5.0	3 1.4 5.2	3 1.6 6.2	3 1.2 5.8	3 1.0 5.5								
23	23	3 2.5 6.0	3 4.5 5.7	..	..	3 1.8 5.8	3 2.2 6.0	3 3.5 6.6	1 3.0 6.5	3 1.8 5.8	3 2.2 6.0	3 3.5 6.6	1 3.0 6.5	3 1.6 5.7	3 2.2 5.8	3 3.5 6.5	3 2.5 5.5						
24	24	..	..	..	..	1 3.0 5.8	1 3.5 6.2	1 2.0 6.6	1 2.0 6.0	1 3.0 5.8	1 3.5 6.2	1 2.0 6.6	1 2.0 6.0	3 3.0 6.5	3 2.5 6.0	3 1.8 6.8	..				
25	25	1 2.7 5.6	1 2.0 5.5	2 1.2 5.8	2 0.9 5.0	1 1.4 5.3	1 1.3 5.8	3 1.1 6.0	3 1.0 5.8	1 1.4 5.3	1 1.3 5.8	3 1.1 6.0	3 1.0 5.8	..	..	..	..				
26	26	3 0.8 4.5	2 0.8 5.0	2 1.0 4.8	2 1.0 5.2	3 0.7 5.6	3 0.7 5.8	3 1.1 6.0	3 1.1 6.3	3 0.7 5.6	3 0.7 5.8	3 1.1 6.0	3 1.1 6.3	..	3 0.6 6.3	3 1.0 5.2	3 1.4 5.8								
27	27	1 1.8 6.0	2 1.0 4.6	2 1.0 5.2	2 1.0 5.5	3 1.5 6.3	3 1.2 6.6	3 1.1 5.9	..	3 1.5 6.3	3 1.2 6.6	3 1.1 5.9	..	..	..	..	..			
28	28	1 2.0 5.8	..	..	..	1 1.2 5.8	1 1.5 5.9	1 1.5 5.2	1 1.7 5.2	1 1.2 5.8	1 1.5 5.9	1 1.5 5.2	1 1.7 5.2	..	..	..	..				
29	29	..	..	..	..	1 3.3 5.8	1 3.5 5.2	1 2.8 5.8	1 2.7 4.9	1 3.3 5.8	1 3.5 5.2	1 2.8 5.8	1 2.7 4.9	1 3.0 5.2	1 3.0 4.8	1 3.5 5.0	1 3.5 5.0				
30	30	1 6.5 4.2	..	..	1 6.0 5.0	1 3.0 5.0	1 2.0 5.5	1 2.2 5.8	1 2.5 5.0	1 3.0 5.0	1 2.0 5.5	1 2.2 5.8	1 2.5 5.0	1 3.0 5.0	1 1.8 4.8	1 2.2 5.0	1 2.0 5.5						
31	31	1 5.0 5.0	1 4.8 4.2	1 3.0 5.7	1 3.0 5.2	1 2.5 5.2	1 2.3 5.0	1 1.8 5.6	1 2.0 5.7	1 2.5 5.2	1 2.3 5.0	1 1.8 5.6	1 2.0 5.7	1 2.5 4.8	1 2.2 5.0	1 2.2 6.0	1 2.0 5.3								