

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

KØBENHAVN

$\varphi = 55^{\circ}41' \text{ N.}$      $\lambda = 12^{\circ}26' \text{ E.}$      $h = 13 \text{ m.}$

Lithologic foundation: chalk

Instruments

Galitzin-Wilip.  $N, E$  and  $Z$ .  $T_p = T_g = 12\frac{1}{2} \text{ sec.}$      $\mu^2 = 0,$      $\frac{Ak}{\pi l} = 255 \text{ sec}^{-1}$     or     $V_{\text{max}} = \text{abt. } 1000.$

Benioff.  $Z'$ .  $T_p = 1 \text{ sec.}$      $T_g = \frac{1}{4} \text{ sec.}$      $V_{\text{max}} = \text{abt. } 30\,000.$

Wiechert 1000 kg.  $N$  and  $E$ .  $T = 8\frac{1}{2} \text{ sec.}$      $\nu = 6:1,$      $\varrho = 0.3 \text{ mm.}$      $V_0 = 210.$

Wiechert 1300 kg.  $Z$ .  $T = 6 \text{ sec.}$      $\nu = 6:1,$      $\varrho = 0.1 \text{ mm.}$      $V_0 = 150.$

Seismological Readings

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often due to 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.



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## January

2 *iP·Z'Z* 0h50m55s -  
*eS·E* 1 00 21  
*iS·N* 00 32  
*i·N* 01 14  
*L·NE* 11  
 $\Delta = 73^\circ$ . Aleutian Islands.

2 *iP·Z'Z* 2 29 05 +  
*ePcP·Z* 29 24  
*eS·E* 38 39  
*iS·N* 38 41  
*iScS·N* 39 21  
*iSS·N* 43 38  
*L·N* 53  
 $\Delta = 74^\circ$ . Aleutian Islands.

2 *eP·Z'* 3 24 22  
 $\Delta = 74^\circ$ . Aleutian Islands.

2 *iP·Z'Z* 4 00 14 *Z'*: +.  
*iP·Z* 00 18 -  
 $\Delta = 74^\circ$ . Aleutian Islands.

2 *iP·Z'* 4 14 48 -  
 $\Delta = 74^\circ$ . Aleutian Islands.

2 *eP·Z'Z* 11 01 01  
*eS·NE* 10 38  
*eScS·N* 11 16  
*SS·N* 15.6  
*L·NE* 30  
 $\Delta = 74^\circ$ . Aleutian Islands.

3 *iP·ZNE* 12 58 31 5s. *N*: + 5  $\mu$ , *E*: 4  $\mu$ , *Z*: - 10  $\mu$ .  
*ipP·ZNE* 13 00 27 *Z*: 5s. - 5  $\mu$ .  
*ippP·ZNE* 01 02 5s. *N*: 6  $\mu$ , *E*: 5  $\mu$ , *Z*: - 5  $\mu$ .  
*ipPP·ZNE* 02 48  
*iS·NE* 06 43 7s. *N*: + 30  $\mu$ , *E*: - 30  $\mu$ .  
*iScS·NE* 07 29 8s. *N*: + 10  $\mu$ , *E*: 15  $\mu$ .  
*isS·E* 10 15  
*iSS·N* 11 12  
*i(SSS)·E* 14 54  
 $\Delta = 68^\circ$ . *h* = 600 km. Southern Manshuria.

9 *L·NE* 8.6

13 *L·N* 12 01.7

16 *iPKP·Z'* 20 55 50  
 $\Delta = 145^\circ$ . Tonga Islands.

17 *iP·Z'* 22 38 24 -  
 $\Delta = 80^\circ$ . *h* = 350 km. Japan.

## January

19 *iPKP·Z'* 5h35m06s -  
 $\Delta = 144^\circ$ . *h* = 600 km. Fiji Islands.

23 *iP·Z'* 17 31 26 +  
 $\Delta = 20^\circ$ . Greece.

25 *eP·Z'* 3 48 18 very weak.  
*eS·NE* 57 39  
*L·NE* 4 14  
 $\Delta = 72^\circ$ . Aleutian Islands.

26 *eL·NE* 16 44

## February

3 *iP·Z'* 17 35 49 -  
*eSS·E* 49.8  
*L·NE* 18 01  
 $\Delta = 68^\circ$ . Kamchatka.

5 *iP·Z'* 5 00 30 -  
 $\Delta = 52^\circ$ . Mid Atlantic Ocean.

6 *iP·Z'* 20 44 11 -  
*L·NE* 21 03.7  
*M1·N* 05 13s. 20  $\mu$ .  
*M2·NEZ* 08 *N*: 11s, 15 $\mu$ , *E*: 12s, 20 $\mu$ , *Z*: 14s, 20 $\mu$ .  
 $\Delta = 53^\circ$ . Lake Baikal region, U.S.S.R.

9 *L·NE* 17.3

10 *eP·Z'* 5 55 24  
*eS·E* 6 01 20  
*L·NE* 06  
 $\Delta = 39^\circ$ . Azores region.

10 *eP·Z'* 22 45 40  
*ePP·Z* 49 35  
*eSKS·NE* 56 14  
*eS·N* 56 54  
*ePS·EZ* 58 07  
*L·NE* 23 19  
 $\Delta = 94^\circ$ . Philippine Islands.

11 *ePP·Z* 1 31 42  
*eSKS·E* 38 46  
*iSKKS·E* 38 55  
*L·NE* 2 04  
 $\Delta = 94^\circ$ . Philippine Islands.

11 *L·NE* 15 26

11 *iP·Z'* 15 45 04 -  
*eS·Z'* 46 33  
 $\Delta = 81\frac{1}{2}^\circ$ . Mid England.



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February

12 L·NE 9h32m

13 L·NE 1 20

14 L·NE 23 52

17 L·NE 16 31

18 iP·Z'Z 14 58 40

i·Z' 58 46

iS·E 15 06 05

L·N 12

$\Delta = 52^\circ$ . Mid Atlantic Ocean.

19 iP·Z'ZNE 7 48 37 Z: -

i·ZN 49 40

iS·ZNE 52 20

L·NE 54.2

M·NE 58 30s. N: 30  $\mu$ , E: 45  $\mu$ .

$\Delta = 20^\circ$ . South of Greece.

19 L·NE 20 32

20 iP·Z'ZN 4 45 31

iS·NE 49 15

L·E 50.8

$\Delta = 20^\circ$ . Tunisia.

20 iP·Z' 13 10 41 -

$\Delta = 68^\circ$ . h = 60 km. Kamchatka.

20 eP·Z' 22 11 02

e·Z'Z 11 16

eSKS·NE 21 32

L·NE 43

$\Delta = 86^\circ$ . Sumatra.

21 eS·N 1 28 00

L·NE 40

$\Delta = 62^\circ$ . Mid Atlantic Ocean.

21 iP·Z'Z 14 41 21 -

i·Z'Z 41 50

eS·N 50 35

L·NE 15 05

$\Delta = 71^\circ$ . Aleutian Islands.

22 eP·Z' 8 02 56

22 L·NE 17 52

23 L·NE 5 34

February

23 eP·Z'Z 20h38m23s

iPcP·Z'Z 38 27

iPP·ZE 41 35

iS·NE 48 27

iPS·N 48 56

L·N 21 04

M·NE 11

16s. N: 100  $\mu$ , E: 50  $\mu$ .

$\Delta = 80^\circ$ . Formosa.

27 L·ZN 15 52

March

2 (i)P·Z' 0 39 21 In the time-break.

iS·NE 49 02

eSS·N 53 54

L·NE 1 01

$\Delta = 75^\circ$ . Jamaica.

2 iP·Z' 7 19 58 +

$\Delta = 42^\circ$ . Southern Iran.

2 L·NE 9 12

3 L·NE 4 08

5 iP·Z'Z 12 32 35

iS·NE 39 00

L·NE 45.5

$\Delta = 43^\circ$ . North Atlantic Ocean.

8 iP·Z'ZNE 12 18 26 Z: 10s, + 20  $\mu$ .

iS·ZNE 21 46

L·Wiechert 23.5

$\Delta = 18^\circ$ . Greece.

8 iP·Z'Z 12 25 25 Z: 10s, 40  $\mu$ .

M 32

10s. N: 90  $\mu$ , E: 130  $\mu$ , Z: 90  $\mu$ .

$\Delta = 18^\circ$ . Greece.

8 eS·Z 20 45 38

eL·E 48.2

$\Delta = 18^\circ$ . Greece.

8 iP·Z'ZNE 23 39 20

iS·ZNE 42 38

L·NE 44.5

M 45

20s. N: 10  $\mu$ , E: 35  $\mu$ .

$\Delta = 18^\circ$ . Greece.



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March

|   |                                         |                                                 |                                                                 |
|---|-----------------------------------------|-------------------------------------------------|-----------------------------------------------------------------|
| 9 | <i>eP·Z'ZN</i>                          | 14 <sup>h</sup> 34 <sup>m</sup> 02 <sup>s</sup> |                                                                 |
|   | <i>iS·N</i>                             | 43                                              | 38                                                              |
|   | <i>iS·E</i>                             | 43                                              | 48                                                              |
|   | <i>i·N</i>                              | 44                                              | 18                                                              |
|   | <i>i·E</i>                              | 44                                              | 30                                                              |
|   | <i>i·N</i>                              | 44                                              | 42                                                              |
|   | <i>i·N</i>                              | 48                                              | 52                                                              |
|   | <i>L·NE</i>                             | 58.5                                            |                                                                 |
|   | <i>M·NE</i>                             | 15 03                                           | 22 <sup>s</sup> . <i>N</i> : 575 $\mu$ , <i>E</i> : 650 $\mu$ . |
|   | Wiechert readings.                      |                                                 |                                                                 |
|   | $\Delta = 73^\circ$ . Aleutian Islands. |                                                 |                                                                 |

|   |                   |          |
|---|-------------------|----------|
| 9 | <i>iP·Z'</i>      | 15 21 41 |
|   | <i>i·Z'</i>       | 22 06    |
|   | Aleutian Islands. |          |

|   |                   |          |
|---|-------------------|----------|
| 9 | <i>iP·Z'</i>      | 15 53 28 |
|   | Aleutian Islands. |          |

|   |                   |          |
|---|-------------------|----------|
| 9 | <i>iP·Z'</i>      | 16 00 06 |
|   | Aleutian Islands. |          |

|   |                   |          |
|---|-------------------|----------|
| 9 | <i>iP·Z'</i>      | 16 27 58 |
|   | Aleutian Islands. |          |

|   |                   |          |
|---|-------------------|----------|
| 9 | <i>iP·Z'</i>      | 16 44 09 |
|   | Aleutian Islands. |          |

|   |                   |          |
|---|-------------------|----------|
| 9 | <i>iP·Z'</i>      | 16 50 46 |
|   | Aleutian Islands. |          |

|   |                   |          |
|---|-------------------|----------|
| 9 | <i>eP·Z'</i>      | 20 18 34 |
|   | Aleutian Islands. |          |

|   |                   |          |
|---|-------------------|----------|
| 9 | <i>eP·Z'</i>      | 20 33 34 |
|   | Aleutian Islands. |          |

|   |                   |                                 |
|---|-------------------|---------------------------------|
| 9 | <i>iP·Z'ZN</i>    | 20 50 45                        |
|   | <i>iPP·Z</i>      | 53 10                           |
|   | <i>ePPP·N</i>     | 55 08                           |
|   | <i>iS·N</i>       | 21 00 15                        |
|   | <i>i·NE</i>       | 00 22                           |
|   | <i>iScS·E</i>     | 00 52                           |
|   | <i>i·Z</i>        | 00 54                           |
|   | <i>i·N</i>        | 00 58                           |
|   | <i>iSS·E</i>      | 05 10                           |
|   | <i>L·N</i>        | 13.2                            |
|   | <i>M·N</i>        | 16 28 <sup>s</sup> . 70 $\mu$ . |
|   | <i>M·E</i>        | 17 27 <sup>s</sup> . 90 $\mu$ . |
|   | <i>M·N</i>        | 19 22 <sup>s</sup> . 60 $\mu$ . |
|   | Aleutian Islands. |                                 |

March

|    |                              |                                                |
|----|------------------------------|------------------------------------------------|
| 10 | <i>eP·Z'</i>                 | 3 <sup>h</sup> 06 <sup>m</sup> 42 <sup>s</sup> |
|    | $\Delta = 74^\circ$ . Japan. |                                                |
| 10 | <i>iP·Z'Z</i>                | 3 17 42                                        |
|    | <i>eS·NE</i>                 | 27 14                                          |
|    | <i>iPS·N</i>                 | 27 27                                          |
|    | <i>SS·N</i>                  | 32.2                                           |
|    | <i>L·NE</i>                  | 40                                             |
|    | Aleutian Islands.            |                                                |

|    |                   |         |
|----|-------------------|---------|
| 10 | <i>iP·Z'Z</i>     | 3 20 32 |
|    | <i>e(S)·E</i>     | 30 10   |
|    | Aleutian Islands. |         |

|    |             |         |
|----|-------------|---------|
| 10 | <i>i·Z'</i> | 3 38 10 |
|----|-------------|---------|

|    |             |         |
|----|-------------|---------|
| 10 | <i>i·Z'</i> | 3 38 50 |
|----|-------------|---------|

|    |                   |          |
|----|-------------------|----------|
| 10 | <i>iP·Z'Z</i>     | 11 32 17 |
|    | <i>eS·N</i>       | 41 51    |
|    | <i>e·E</i>        | 42 02    |
|    | <i>iSKS·N</i>     | 42 23    |
|    | <i>L·NE</i>       | 55       |
|    | Aleutian Islands. |          |

|    |                   |          |
|----|-------------------|----------|
| 10 | <i>iP·Z'Z</i>     | 12 47 43 |
|    | <i>ePPP·N</i>     | 52.2     |
|    | <i>eS·N</i>       | 57 25    |
|    | <i>eSS·N</i>      | 13 01.4  |
|    | <i>L·N</i>        | 11       |
|    | Aleutian Islands. |          |

|    |                   |          |
|----|-------------------|----------|
| 10 | <i>iP·Z'</i>      | 12 57 09 |
|    | Aleutian Islands. |          |

|    |                   |          |
|----|-------------------|----------|
| 10 | <i>eP·Z'Z</i>     | 13 21 46 |
|    | Aleutian Islands. |          |

|    |                   |          |
|----|-------------------|----------|
| 10 | <i>eP·Z'</i>      | 13 40 04 |
|    | Aleutian Islands. |          |

|    |                   |          |
|----|-------------------|----------|
| 10 | <i>iP·Z'Z</i>     | 15 37 53 |
|    | <i>iPcP·Z'</i>    | 38 10    |
|    | <i>eS·N</i>       | 47 07    |
|    | <i>i·N</i>        | 47 25    |
|    | <i>e·N</i>        | 47 48    |
|    | <i>iSS·N</i>      | 52 27    |
|    | <i>L·NE</i>       | 16 01    |
|    | Aleutian Islands. |          |



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|       |                               |                                                |                              |       |                                                    |                                                |                               |
|-------|-------------------------------|------------------------------------------------|------------------------------|-------|----------------------------------------------------|------------------------------------------------|-------------------------------|
| March |                               |                                                |                              | March |                                                    |                                                |                               |
| 11    | <i>iP·Z'Z</i>                 | 3 <sup>h</sup> 24 <sup>m</sup> 20 <sup>s</sup> |                              | 12    | <i>iP·Z'</i>                                       | 5 <sup>h</sup> 23 <sup>m</sup> 35 <sup>s</sup> | —                             |
|       | <i>iX·N</i>                   | 25 33                                          |                              |       | Aleutian Islands.                                  |                                                |                               |
|       | <i>ePP·N</i>                  | 27 07                                          |                              | 12    | <i>eP·Z'</i>                                       | 6 14 24                                        |                               |
|       | <i>iS·NE</i>                  | 33 47                                          |                              |       | Aleutian Islands.                                  |                                                |                               |
|       | <i>iSKS·N</i>                 | 34 30                                          |                              | 12    | <i>iP·Z'Z</i>                                      | 7 40 20                                        | +                             |
|       | <i>iSS·NE</i>                 | 39 15                                          |                              |       | <i>eS·NE</i>                                       | 49 50                                          |                               |
|       | <i>L·NE</i>                   | 47                                             |                              |       | <i>i·N</i>                                         | 50 16                                          |                               |
|       | <i>M·N</i>                    | 50                                             | 30 <sup>s</sup> . 50 $\mu$ . |       | <i>i·N</i>                                         | 50 30                                          |                               |
|       | <i>M·E</i>                    | 53                                             | 22 <sup>s</sup> . 30 $\mu$ . |       | <i>iSS·N</i>                                       | 54 50                                          |                               |
|       | <i>M·E</i>                    | 58                                             | 20 <sup>s</sup> . 30 $\mu$ . |       | <i>L·NE</i>                                        | 8 04                                           |                               |
|       | <i>M·N</i>                    | 4 00                                           | 18 <sup>s</sup> . 40 $\mu$ . |       | <i>M·N</i>                                         | 06                                             | 26 <sup>s</sup> . 25 $\mu$ .  |
|       | Aleutian Islands.             |                                                |                              |       | Aleutian Islands.                                  |                                                |                               |
| 11    | <i>eP·ZN</i>                  | 9 35 22                                        |                              | 12    | <i>iP·Z'</i>                                       | 7 50 50                                        |                               |
|       | <i>eS·EZ</i>                  | 38 45                                          |                              |       | <i>iS·E</i>                                        | 8 00 19                                        |                               |
|       | <i>L·NE</i>                   | 42                                             |                              |       | Aleutian Islands.                                  |                                                |                               |
|       | $\Delta = 18^\circ$ . Greece. |                                                |                              | 12    | <i>iP·Z'</i>                                       | 8 14 47                                        |                               |
| 11    | <i>iP·Z'ZN</i>                | 10 10 10                                       |                              |       | Aleutian Islands.                                  |                                                |                               |
|       | <i>iPPP·N</i>                 | 14 35                                          |                              | 12    | <i>eP·Z'</i>                                       | 10 50 03                                       |                               |
|       | <i>i·N</i>                    | 15 52                                          |                              |       | Aleutian Islands.                                  |                                                |                               |
|       | <i>iS·NE</i>                  | 19 28                                          |                              | 12    | <i>iP·Z'ZN</i>                                     | 11 56 32                                       | Z: +.                         |
|       | <i>iPS·NE</i>                 | 19 43                                          |                              |       | <i>i·Z'Z</i>                                       | 56 55                                          |                               |
|       | <i>M·N</i>                    | 34                                             | 26 <sup>s</sup> . 50 $\mu$ . |       | <i>iS·NE</i>                                       | 12 05 57                                       |                               |
|       | <i>M·N</i>                    | 38                                             | 22 <sup>s</sup> . 60 $\mu$ . |       | <i>L·NE</i>                                        | 20                                             |                               |
|       | <i>M·N</i>                    | 42                                             | 18 <sup>s</sup> . 75 $\mu$ . |       | <i>M·E</i>                                         | 22                                             | 30 <sup>s</sup> . 100 $\mu$ . |
|       | Aleutian Islands.             |                                                |                              |       | Aleutian Islands.                                  |                                                |                               |
| 11    | <i>iP·Z'ZN</i>                | 15 06 51                                       |                              | 12    | <i>eP·Z'</i>                                       | 12 57 38                                       |                               |
|       | <i>iPP·ZN</i>                 | 09 35                                          |                              |       | <i>i·Z'</i>                                        | 57 41                                          |                               |
|       | <i>iPPP·N</i>                 | 11 18                                          |                              |       | Aleutian Islands.                                  |                                                |                               |
|       | <i>iS·NE</i>                  | 16 18                                          |                              | 12    | <i>ePKP·Z'</i>                                     | 16 51 28                                       |                               |
|       | <i>iSS·E</i>                  | 21 00                                          |                              |       | $\Delta = 135^\circ$ . New Hebrides.               |                                                |                               |
|       | <i>M·N</i>                    | 33                                             | 30 <sup>s</sup> . 90 $\mu$ . | 12    | <i>iP·Z'</i>                                       | 17 11 55                                       |                               |
|       | <i>M·N</i>                    | 38                                             | 20 <sup>s</sup> . 50 $\mu$ . |       | Aleutian Islands.                                  |                                                |                               |
|       | <i>M·N</i>                    | 44                                             | 16 <sup>s</sup> . 50 $\mu$ . | 12    | <i>iPKP·Z'</i>                                     | 17 40 14                                       | —                             |
| 11    | <i>iP·Z'</i>                  | 15 47 27                                       | +                            |       | $\Delta = 145^\circ$ . $h = 700$ km. Fiji Islands. |                                                |                               |
|       | Aleutian Islands.             |                                                |                              | 12    | <i>e·Z'</i>                                        | 20 02 50                                       |                               |
| 12    | <i>iP·Z'</i>                  | 0 29 30                                        |                              |       | <i>e·Z'</i>                                        | 04 26                                          |                               |
|       | Aleutian Islands.             |                                                |                              |       | <i>e·Z'</i>                                        | 04 30                                          |                               |
| 12    | <i>iP·Z'</i>                  | 1 14 05                                        |                              | 12    | <i>eP·Z'</i>                                       | 20 11 52                                       |                               |
|       | Aleutian Islands.             |                                                |                              |       | Aleutian Islands.                                  |                                                |                               |
| 12    | <i>iP·Z'</i>                  | 1 16 02                                        | +                            | 12    | <i>eP·Z'</i>                                       | 20 18.9                                        |                               |
|       | Aleutian Islands.             |                                                |                              |       | Aleutian Islands.                                  |                                                |                               |
| 12    | <i>eP·Z'</i>                  | 1 57 59                                        |                              |       |                                                    |                                                |                               |
|       | Aleutian Islands.             |                                                |                              |       |                                                    |                                                |                               |
| 12    | <i>iP·Z'</i>                  | 2 34 25                                        |                              |       |                                                    |                                                |                               |
|       | Aleutian Islands.             |                                                |                              |       |                                                    |                                                |                               |



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|       |                         |                      |
|-------|-------------------------|----------------------|
| March |                         |                      |
| 12    | <i>e</i> · <i>Z'</i>    | 20 <sup>h</sup> 51.1 |
| 12    | <i>e</i> · <i>Z'</i>    | 21 18 49             |
| 12    | <i>iP</i> · <i>Z'</i>   | 21 30 50             |
|       | Aleutian Islands.       |                      |
| 12    | <i>e</i> · <i>Z'</i>    | 23 31.9              |
| 12    | <i>eP</i> · <i>Z'</i>   | 23 56 58             |
|       | Aleutian Islands.       |                      |
| 13    | <i>iP</i> · <i>Z'</i>   | 2 59 53 +            |
|       | <i>iS</i> · <i>N</i>    | 3 09 21              |
|       | <i>i</i> · <i>N</i>     | 10 15                |
|       | <i>SS</i> · <i>N</i>    | 14.5                 |
|       | <i>L</i> · <i>NE</i>    | 24                   |
|       | Aleutian Islands.       |                      |
| 13    | <i>eP</i> · <i>Z'</i>   | 3 18 48              |
|       | Aleutian Islands.       |                      |
| 13    | <i>iP</i> · <i>Z'</i>   | 3 44 30              |
|       | Aleutian Islands.       |                      |
| 13    | <i>eP</i> · <i>Z'</i>   | 9 21 04              |
|       | <i>L</i> · <i>NE</i>    | 46                   |
|       | Aleutian Islands.       |                      |
| 13    | <i>e</i> · <i>Z'</i>    | 9 32 44              |
| 13    | <i>iP</i> · <i>Z'Z</i>  | 15 53 39 -           |
|       | <i>iPP</i> · <i>Z</i>   | 56 27                |
|       | <i>iPPP</i> · <i>ZN</i> | 58 15                |
|       | <i>iS</i> · <i>NE</i>   | 16 03 04             |
|       | <i>iPS</i> · <i>NE</i>  | 03 20                |
|       | <i>e</i> · <i>N</i>     | 04 00                |
|       | <i>L</i> · <i>NE</i>    | 17                   |
|       | Aleutian Islands.       |                      |
| 13    | <i>eP</i> · <i>Z'</i>   | 17 55 18             |
|       | <i>i</i> · <i>Z'</i>    | 55 24                |
|       | <i>L</i> · <i>NE</i>    | 18 18                |
|       | Aleutian Islands.       |                      |
| 13    | <i>iP</i> · <i>Z'Z</i>  | 20 10 44 +           |
|       | <i>eS</i> · <i>NE</i>   | 20 16                |
|       | <i>e</i> · <i>N</i>     | 20 42                |
|       | <i>i</i> · <i>NE</i>    | 21 00                |
|       | <i>L</i> · <i>NE</i>    | 34.5                 |
|       | Aleutian Islands.       |                      |
| 14    | <i>eP</i> · <i>Z'</i>   | 2 03 47              |
|       | <i>L</i> · <i>E</i>     | 27                   |
|       | Aleutian Islands.       |                      |

|       |                                      |                                                                   |
|-------|--------------------------------------|-------------------------------------------------------------------|
| March |                                      |                                                                   |
| 14    | ( <i>iP</i> · <i>Z'</i>              | 2 <sup>h</sup> 58 <sup>m</sup> 19 <sup>s</sup> in the time-break. |
|       | <i>i</i> · <i>Z'</i>                 | 58 31                                                             |
|       | Aleutian Islands.                    |                                                                   |
| 14    | <i>iP</i> · <i>Z'ZN</i>              | 14 59 19 <i>Z</i> : +.                                            |
|       | <i>i</i> · <i>N</i>                  | 15 00 16                                                          |
|       | <i>iS</i> · <i>N</i>                 | 08 41                                                             |
|       | <i>iPS</i> · <i>E</i>                | 09 07 Wiechert reading.                                           |
|       | <i>iSKS</i> · <i>E</i>               | 09 17 Wiechert reading.                                           |
|       | <i>iSeS</i> · <i>NE</i>              | 09 26                                                             |
|       | <i>L</i> · <i>E</i>                  | 19 Wiechert reading.                                              |
|       | <i>M</i> · <i>N</i>                  | 25 35 <sup>s</sup> . 100 $\mu$ . Wiechert.                        |
|       | Aleutian Islands.                    |                                                                   |
| 15    | <i>iP</i> · <i>Z'N</i>               | 3 03 38                                                           |
|       | <i>eS</i> · <i>NE</i>                | 13 02                                                             |
|       | <i>L</i> · <i>NE</i>                 | 27                                                                |
|       | Aleutian Islands.                    |                                                                   |
| 16    | <i>eP</i> · <i>Z</i>                 | 0 50 29                                                           |
|       | <i>eS</i> · <i>NE</i>                | 56 17                                                             |
|       | <i>L</i> · <i>NE</i>                 | 59.4                                                              |
|       | $\Delta = 35^\circ$ . Northern Iran. |                                                                   |
| 16    | <i>iP</i> · <i>Z'</i>                | 2 45 43 -                                                         |
|       | <i>iP</i> · <i>Z</i>                 | 45 46 +                                                           |
|       | <i>iPcP</i> · <i>Z'</i>              | 46 02                                                             |
|       | <i>ePP</i> · <i>N</i>                | 48 30                                                             |
|       | <i>ePPP</i> · <i>N</i>               | 50 18                                                             |
|       | <i>eS</i> · <i>NE</i>                | 55 04                                                             |
|       | <i>iPS</i> · <i>E</i>                | 55 29                                                             |
|       | <i>i</i> · <i>NE</i>                 | 55 56                                                             |
|       | <i>M</i> · <i>N</i>                  | 3 15 26 <sup>s</sup> . 90 $\mu$ .                                 |
|       | <i>M</i> · <i>N</i>                  | 24 20 <sup>s</sup> . 165 $\mu$ .                                  |
|       | Aleutian Islands.                    |                                                                   |
| 17    | <i>L</i> · <i>NE</i>                 | 0 40                                                              |
| 17    | <i>iP</i> · <i>Z'</i>                | 8 05 25 -                                                         |
|       | <i>e</i> · <i>N</i>                  | 15 27                                                             |
|       | <i>i</i> · <i>N</i>                  | 15 35                                                             |
|       | <i>L</i> · <i>NE</i>                 | 39                                                                |
|       | Aleutian Islands.                    |                                                                   |
| 17    | <i>L</i> · <i>NE</i>                 | 15 54                                                             |
| 17    | <i>iP</i> · <i>Z'Z</i>               | 22 56 05                                                          |
|       | <i>iPcP</i> · <i>Z'Z</i>             | 56 14                                                             |
|       | <i>iPP</i> · <i>ZN</i>               | 58 50                                                             |
|       | <i>eS</i> · <i>N</i>                 | 23 05 21                                                          |
|       | <i>ePS</i> · <i>NE</i>               | 05 39                                                             |
|       | <i>eSKS</i> · <i>N</i>               | 06 01                                                             |
|       | <i>L</i> · <i>Z</i>                  | 19 40 <sup>s</sup> . 20 $\mu$ .                                   |
|       | <i>L</i> · <i>N</i>                  | 20 35 <sup>s</sup> . 20 $\mu$ .                                   |
|       | <i>M</i> · <i>N</i>                  | 30 20 <sup>s</sup> . 15 $\mu$ .                                   |
|       | Aleutian Islands.                    |                                                                   |



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|       |                                         |                                                                |
|-------|-----------------------------------------|----------------------------------------------------------------|
| March |                                         |                                                                |
| 18    | L·NE                                    | 3 <sup>h</sup> 03 <sup>m</sup>                                 |
| 18    | L·NE                                    | 5 56                                                           |
| 18    | ePP·ZN                                  | 21 34.2                                                        |
|       | eSKKS·E                                 | 41.8                                                           |
|       | ePS·NE                                  | 44 42                                                          |
|       | L·NE                                    | 22 13                                                          |
|       | $\Delta = 121^\circ$ . New Britain.     |                                                                |
| 18    | eP·Z'Z                                  | 23 21 25                                                       |
|       | iS·NE                                   | 24 34                                                          |
|       | L·NE                                    | 26.4                                                           |
|       | $\Delta = 17^\circ$ . Black Sea.        |                                                                |
| 19    | eP·Z'                                   | 3 51 06                                                        |
|       | $\Delta = 73^\circ$ . Aleutian Islands. |                                                                |
| 19    | eP·Z                                    | 11 40 22                                                       |
|       | eS·E                                    | 49 53                                                          |
|       | L·NE                                    | 12 06                                                          |
|       | $\Delta = 73^\circ$ . Aleutian Islands. |                                                                |
| 19    | eP·Z'Z                                  | 13 02 30                                                       |
|       | (i)S·NE                                 | 12 00 in the time-break.                                       |
|       | eSS·NE                                  | 16 30                                                          |
|       | L·NE                                    | 25                                                             |
|       | M·ZNE                                   | 29 30 <sup>s</sup> . Z: 60 $\mu$ , N: 60 $\mu$ , E: 40 $\mu$ . |
|       | $\Delta = 73^\circ$ . Aleutian Islands. |                                                                |
| 20    | L·NE                                    | 0 51                                                           |
| 20    | L·NE                                    | 1 07                                                           |
| 21    | L·NE                                    | 17 33                                                          |
| 22    | iP·Z'Z                                  | 14 32 27                                                       |
|       | iPcP·Z                                  | 32 50                                                          |
|       | ePP·N                                   | 35 00                                                          |
|       | iS·NE                                   | 41 40                                                          |
|       | iPS·E                                   | 42 00                                                          |
|       | iSKS·N                                  | 42 30                                                          |
|       | M·ZNE                                   | 56 30 <sup>s</sup> . Z: 60 $\mu$ , N: 80 $\mu$ , E: 45 $\mu$ . |
|       | M·E                                     | 15 03 20 <sup>s</sup> . 80 $\mu$ .                             |
|       | M·N                                     | 06 20 <sup>s</sup> . 70 $\mu$ .                                |
|       | $\Delta = 71^\circ$ . Aleutian Islands. |                                                                |
| 22    | iP·Z'                                   | 14 44 32                                                       |
|       | $\Delta = 71^\circ$ . Aleutian Islands. |                                                                |
| 22    | L·NE                                    | 20 26                                                          |

|       |                                                 |                                                |
|-------|-------------------------------------------------|------------------------------------------------|
| March |                                                 |                                                |
| 23    | eP·Z'                                           | 5 <sup>h</sup> 27 <sup>m</sup> 00 <sup>s</sup> |
|       | ePKP·Z'                                         | 30.7                                           |
|       | iSP·Z                                           | 40 48                                          |
|       | iSS·NE                                          | 46 50                                          |
|       | ePPP2·N                                         | 49 10                                          |
|       | eSSS·N                                          | 51.0                                           |
|       | L·NE                                            | 6 05                                           |
|       | $\Delta = 110^\circ$ . $h = 100$ km. Banda Sea. |                                                |
| 24    | L·NE                                            | 8 22                                           |
| 24    | L·NE                                            | 8 56                                           |
| 24    | L·NE                                            | 11 48                                          |
| 25    | L·NE                                            | 22 09                                          |
| 26    | L·N                                             | 3 37                                           |
| 26    | L·NE                                            | 3 49                                           |
| 26    | iP·Z'                                           | 4 57 02                                        |
|       | i·Z'                                            | 57 21                                          |
|       | $\Delta = 40^\circ$ . Southern Iran.            |                                                |
| 28    | L·N                                             | 20 47                                          |
| 28    | eP·Z'                                           | 22 30 11                                       |
|       | eS·NE                                           | 33 32                                          |
|       | L·NE                                            | 35                                             |
|       | $\Delta = 18^\circ$ . Greece.                   |                                                |
| 29    | eP·Z'                                           | 5 21 51                                        |
|       | i·Z'                                            | 21 52                                          |
|       | eS·NE                                           | 31 05                                          |
|       | iPS·NE                                          | 31 25                                          |
|       | L·NE                                            | 43                                             |
|       | M·N                                             | 45 42 <sup>s</sup> . 100 $\mu$ .               |
|       | $\Delta = 71^\circ$ . Aleutian Islands.         |                                                |
| 29    | iP·Z'                                           | 23 01 19                                       |
|       | L·NE                                            | 30                                             |
|       | $\Delta = 72^\circ$ . Aleutian Islands.         |                                                |
| 30    | L·E                                             | 9 55                                           |
| 31    | L·NE                                            | 10 46                                          |
| 31    | iP·Z'                                           | 17 33 51 -                                     |
|       | $\Delta = 67^\circ$ . Kamchatka.                |                                                |



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|   |                                            |                                                 |                              |
|---|--------------------------------------------|-------------------------------------------------|------------------------------|
| 1 | <i>iP·Z'Z</i>                              | 11 <sup>h</sup> 47 <sup>m</sup> 08 <sup>s</sup> | +                            |
|   | <i>ePcP·Z'</i>                             | 47 20                                           |                              |
|   | <i>eS·NE</i>                               | 56 40                                           |                              |
|   | <i>eScS·N</i>                              | 57 19                                           |                              |
|   | <i>SS·N</i>                                | 12 01.8                                         |                              |
|   | <i>L·N</i>                                 | 11                                              |                              |
|   | $\Delta = 74^\circ$ . Aleutian Islands.    |                                                 |                              |
| 1 | <i>i·Z'</i>                                | 23 18 01                                        | +                            |
| 2 | <i>iP·Z'Z</i>                              | 0 51 20                                         | +                            |
|   | <i>iPcP·Z'</i>                             | 51 32                                           |                              |
|   | <i>L·NE</i>                                | 1 17                                            |                              |
|   | $\Delta = 74^\circ$ . Aleutian Islands.    |                                                 |                              |
| 2 | <i>L·NE</i>                                | 5 02                                            |                              |
| 2 | <i>iP·Z'</i>                               | 8 44 41                                         | +                            |
|   | $\Delta = 82^\circ$ . $h = 550$ km. Japan. |                                                 |                              |
| 2 | <i>iP·Z'Z</i>                              | 20 28 34                                        | <i>Z'</i> : -, <i>Z</i> : +. |
|   | <i>eS·NE</i>                               | 38 09                                           |                              |
|   | <i>eScS·E</i>                              | 38 48                                           |                              |
|   | <i>L·NE</i>                                | 52                                              |                              |
|   | $\Delta = 74^\circ$ . Aleutian Islands.    |                                                 |                              |
| 2 | <i>iP·Z'Z</i>                              | 21 39 33                                        | <i>Z</i> : +.                |
|   | <i>iPcP·Z'</i>                             | 39 43                                           |                              |
|   | <i>iS·NE</i>                               | 49 02                                           |                              |
|   | <i>L·NE</i>                                | 22 03                                           |                              |
|   | $\Delta = 74^\circ$ . Aleutian Islands.    |                                                 |                              |
| 3 | <i>i·Z'</i>                                | 1 41 49                                         | +                            |
| 3 | <i>iP·Z'</i>                               | 20 34 08                                        | -                            |
|   | $\Delta = 25^\circ$ . West of Cyprus.      |                                                 |                              |
| 4 | <i>eP·Z'Z</i>                              | 0 23 43                                         | +                            |
|   | <i>i·Z'Z</i>                               | 23 44                                           | -                            |
|   | <i>eS·E</i>                                | 32 36                                           |                              |
|   | <i>eSKS·E</i>                              | 33 36                                           |                              |
|   | <i>L·E</i>                                 | 50                                              |                              |
|   | $\Delta = 67^\circ$ . Alaska Peninsula.    |                                                 |                              |
| 4 | <i>iP·Z'</i>                               | 7 03 44                                         | -                            |
|   | <i>L·E</i>                                 | 27.7                                            |                              |
|   | $\Delta = 72^\circ$ . Kurile Islands.      |                                                 |                              |
| 4 | <i>L·NE</i>                                | 12 00                                           |                              |
| 5 | <i>eP·Z'</i>                               | 3 01 10                                         |                              |
|   | <i>eS·E</i>                                | 10 48                                           | uncertain.                   |
|   | <i>eSKS·N</i>                              | 11.3                                            |                              |
|   | <i>eSS·N</i>                               | 15.6                                            |                              |
|   | <i>L·NE</i>                                | 26                                              |                              |
|   | $\Delta = 73^\circ$ . Aleutian Islands.    |                                                 |                              |

April

|    |                                                               |                                                |                                                                  |
|----|---------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------|
| 5  | <i>iPKP·Z</i>                                                 | 7 <sup>h</sup> 50 <sup>m</sup> 02 <sup>s</sup> | +                                                                |
|    | <i>ipPKP·Z</i>                                                | 50 41                                          |                                                                  |
|    | $\Delta = 150^\circ$ . $h = 100$ km. Kermadec Islands region. |                                                |                                                                  |
| 5  | <i>iP·Z'</i>                                                  | 15 15 44                                       | -                                                                |
|    | $\Delta = 74^\circ$ . Kurile Islands.                         |                                                |                                                                  |
| 7  | <i>ePP·Z</i>                                                  | 10 33 17                                       |                                                                  |
|    | <i>eSKS·NE</i>                                                | 39 22                                          |                                                                  |
|    | <i>eSP·Z</i>                                                  | 42 42                                          |                                                                  |
|    | <i>eSS·N</i>                                                  | 48.7                                           |                                                                  |
|    | <i>L·NE</i>                                                   | 11 06                                          |                                                                  |
|    | $\Delta = 110^\circ$ . New Guinea.                            |                                                |                                                                  |
| 8  | <i>eSKS·NE</i>                                                | 20 41 20                                       |                                                                  |
|    | <i>iS·E</i>                                                   | 41 30                                          |                                                                  |
|    | <i>ePS·E</i>                                                  | 42.4                                           |                                                                  |
|    | <i>L·NE</i>                                                   | 59                                             |                                                                  |
|    | $\Delta = 86^\circ$ . Panama-Costa Rica border.               |                                                |                                                                  |
| 9  | <i>iP·Z'Z</i>                                                 | 0 36 17                                        | +                                                                |
|    | <i>ipP·Z</i>                                                  | 38 04                                          | -                                                                |
|    | <i>ePP·Z</i>                                                  | 39 39                                          |                                                                  |
|    | <i>iS·NE</i>                                                  | 45 55                                          | 7 <sup>s</sup> . <i>N</i> : + 15 $\mu$ , <i>E</i> : - 15 $\mu$ . |
|    | <i>i(sS)·N</i>                                                | 48 54                                          |                                                                  |
|    | <i>eSS·E</i>                                                  | 51 52                                          |                                                                  |
|    | $\Delta = 82^\circ$ . $h = 450$ km. Japan.                    |                                                |                                                                  |
| 9  | <i>eP·Z'</i>                                                  | 2 30 25                                        |                                                                  |
|    | <i>L·NE</i>                                                   | 3 06                                           |                                                                  |
|    | $\Delta = 92^\circ$ . Mariana Islands region.                 |                                                |                                                                  |
| 9  | <i>iP·Z'</i>                                                  | 10 47 07                                       |                                                                  |
|    | $\Delta = 82^\circ$ . $h = 500$ km. Japan.                    |                                                |                                                                  |
| 9  | <i>eP·Z</i>                                                   | 11 13 46                                       |                                                                  |
|    | <i>eS·N</i>                                                   | 28.3                                           |                                                                  |
|    | <i>L·NE</i>                                                   | 38                                             |                                                                  |
|    | $\Delta = 73^\circ$ . Aleutian Islands.                       |                                                |                                                                  |
| 9  | <i>iP·Z'</i>                                                  | 20 35 25                                       | -                                                                |
|    | <i>i·Z'</i>                                                   | 35 35                                          | -                                                                |
|    | <i>L·E</i>                                                    | 21 01                                          |                                                                  |
|    | $\Delta = 73^\circ$ . Aleutian Islands.                       |                                                |                                                                  |
| 10 | <i>iP·Z'</i>                                                  | 3 36 44                                        | -                                                                |
|    | <i>L·NE</i>                                                   | 4 03                                           |                                                                  |
|    | $\Delta = 73^\circ$ . Aleutian Islands.                       |                                                |                                                                  |



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|       |                                             |                                                |                                                                |  |
|-------|---------------------------------------------|------------------------------------------------|----------------------------------------------------------------|--|
| April |                                             |                                                |                                                                |  |
| 10    | <i>iP·Z</i>                                 | 5 <sup>h</sup> 25 <sup>m</sup> 04 <sup>s</sup> | +                                                              |  |
|       | <i>iPP·ZNE</i>                              | 28 30                                          |                                                                |  |
|       | <i>eSKS·NE</i>                              | 35 30                                          |                                                                |  |
|       | <i>iS·E</i>                                 | 35 55                                          |                                                                |  |
|       | <i>ePS·E</i>                                | 36 50                                          |                                                                |  |
|       | <i>iSS·E</i>                                | 41 43                                          |                                                                |  |
|       | <i>SSS·E</i>                                | 45 42                                          |                                                                |  |
|       | <i>L·NE</i>                                 | 54                                             |                                                                |  |
|       | $\Delta = 89^\circ$ . Mexico.               |                                                |                                                                |  |
| 10    | <i>iP·Z'ZN</i>                              | 11 41 02                                       | <i>Z'Z</i> : +.                                                |  |
|       | <i>iS·NE</i>                                | 50 05                                          | <i>N</i> : +, <i>E</i> : +.                                    |  |
|       | <i>i·N</i>                                  | 51 10                                          |                                                                |  |
|       | <i>SS·E</i>                                 | 54.4                                           |                                                                |  |
|       | <i>L·NE</i>                                 | 12 03                                          |                                                                |  |
|       | $\Delta = 69^\circ$ . Kodiak Island region. |                                                |                                                                |  |
| 11    | <i>L·NE</i>                                 | 18 25                                          |                                                                |  |
| 12    | <i>e·NE</i>                                 | 16 15.2                                        |                                                                |  |
|       | <i>L·NE</i>                                 | 27                                             |                                                                |  |
| 13    | <i>eP·Z</i>                                 | 3 55 24                                        |                                                                |  |
|       | <i>eS·NE</i>                                | 4 04 43                                        |                                                                |  |
|       | <i>L·NE</i>                                 | 19                                             |                                                                |  |
|       | $\Delta = 72^\circ$ . British Columbia.     |                                                |                                                                |  |
| 13    | <i>L·NE</i>                                 | 5 59                                           |                                                                |  |
| 13    | <i>L·NE</i>                                 | 7 20                                           |                                                                |  |
| 13    | <i>ePP·Z</i>                                | 10 28 47                                       |                                                                |  |
|       | <i>eSKS·NE</i>                              | 35 07                                          |                                                                |  |
|       | <i>eS·N</i>                                 | 36 01                                          |                                                                |  |
|       | <i>L·NE</i>                                 | 59                                             |                                                                |  |
|       | $\Delta = 99^\circ$ . Philippine Islands.   |                                                |                                                                |  |
| 14    | <i>iP·Z'Z</i>                               | 7 21 31                                        | -                                                              |  |
|       | <i>iS·NE</i>                                | 29 15                                          |                                                                |  |
|       | <i>i·E</i>                                  | 29 24                                          |                                                                |  |
|       | <i>L·NE</i>                                 | 40                                             |                                                                |  |
|       | <i>M·NE</i>                                 | 42                                             | 20 <sup>s</sup> . <i>N</i> : 60 $\mu$ , <i>E</i> : 20 $\mu$ .  |  |
|       | $\Delta = 55^\circ$ . Southern Tibet.       |                                                |                                                                |  |
| 14    | <i>L·NE</i>                                 | 17 05                                          |                                                                |  |
| 14    | <i>ePKP·Z'Z</i>                             | 19 37 22                                       |                                                                |  |
|       | <i>i·Z'Z</i>                                | 37 30                                          |                                                                |  |
|       | <i>iPP·ZN</i>                               | 40 27                                          |                                                                |  |
|       | <i>iPKS·ZNE</i>                             | 41 05                                          |                                                                |  |
|       | <i>eSKKS·N</i>                              | 47 16                                          |                                                                |  |
|       | <i>ePS·N</i>                                | 50 35                                          |                                                                |  |
|       | <i>L·NE</i>                                 | 20 25                                          | 35 <sup>s</sup> . <i>N</i> : 100 $\mu$ , <i>E</i> : 65 $\mu$ . |  |
|       | <i>M·N</i>                                  | 31                                             | 25 <sup>s</sup> . 90 $\mu$ .                                   |  |
|       | <i>M·E</i>                                  | 34                                             | 25 <sup>s</sup> . 45 $\mu$ .                                   |  |
|       | $\Delta = 140^\circ$ . Samoa Islands.       |                                                |                                                                |  |

|       |                                                    |                                                 |                             |  |
|-------|----------------------------------------------------|-------------------------------------------------|-----------------------------|--|
| April |                                                    |                                                 |                             |  |
| 14    | <i>iP·Z'Z</i>                                      | 21 <sup>h</sup> 10 <sup>m</sup> 40 <sup>s</sup> | -                           |  |
|       | $\Delta = 74^\circ$ . Aleutian Islands.            |                                                 |                             |  |
| 15    | <i>iP·Z'Z</i>                                      | 10 50 08                                        | +                           |  |
|       | <i>eS·NE</i>                                       | 59 35                                           |                             |  |
|       | <i>e·NE</i>                                        | 11 00.4                                         |                             |  |
|       | <i>L·NE</i>                                        | 14                                              |                             |  |
|       | $\Delta = 74^\circ$ . Aleutian Islands.            |                                                 |                             |  |
| 15    | <i>eP·Z'Z</i>                                      | 21 44 37                                        |                             |  |
|       | <i>eS·NE</i>                                       | 54 02                                           |                             |  |
|       | <i>e·NE</i>                                        | 54 50                                           |                             |  |
|       | <i>L·NE</i>                                        | 22.1                                            |                             |  |
|       | $\Delta = 73^\circ$ . Aleutian Islands.            |                                                 |                             |  |
| 16    | <i>iP·Z'Z</i>                                      | 4 16 35                                         | -                           |  |
|       | <i>ipP·Z'Z</i>                                     | 18 43                                           | +                           |  |
|       | <i>isP·Z</i>                                       | 19 42                                           |                             |  |
|       | <i>iPP·Z'Z</i>                                     | 20 37                                           | +                           |  |
|       | <i>epPP·ZE</i>                                     | 22 31                                           |                             |  |
|       | <i>isPP·ZE</i>                                     | 23 32                                           |                             |  |
|       | <i>i·E</i>                                         | 27 17                                           |                             |  |
|       | <i>iSP·ZE</i>                                      | 28 29                                           |                             |  |
|       | <i>ePS·N</i>                                       | 29 42                                           |                             |  |
|       | <i>isSP·E</i>                                      | 32 15                                           |                             |  |
|       | <i>iSS·E</i>                                       | 33 48                                           |                             |  |
|       | $\Delta = 96^\circ$ . <i>h</i> = 600 km. Java Sea. |                                                 |                             |  |
| 17    | <i>L·NE</i>                                        | 2 29                                            | 10 <sup>s</sup> , traces.   |  |
| 17    | <i>iPKP·Z'</i>                                     | 8 27 16                                         | +                           |  |
|       | $\Delta = 144^\circ$ . Tonga Islands.              |                                                 |                             |  |
| 17    | <i>L·NE</i>                                        | 10 04                                           |                             |  |
| 17    | <i>L·NE</i>                                        | 14 07                                           |                             |  |
| 17    | <i>iP·Z'</i>                                       | 15 18 45                                        | -                           |  |
|       | $\Delta = 71^\circ$ . Aleutian Islands.            |                                                 |                             |  |
| 17    | <i>L·NE</i>                                        | 18 56                                           |                             |  |
| 19    | <i>iP·Z'Z</i>                                      | 15 56 28                                        | -                           |  |
|       | <i>L·NE</i>                                        | 16 20                                           |                             |  |
|       | $\Delta = 73^\circ$ . Aleutian Islands.            |                                                 |                             |  |
| 19    | <i>iP·Z'ZN</i>                                     | 22 30 58                                        | <i>Z</i> : -, <i>N</i> : +. |  |
|       | <i>iPcP·N</i>                                      | 31 13                                           | -                           |  |
|       | <i>ePP·N</i>                                       | 33 40                                           |                             |  |
|       | <i>iS·NE</i>                                       | 40 22                                           | <i>N</i> : +, <i>E</i> : +. |  |
|       | <i>ePS·N</i>                                       | 40 47                                           |                             |  |
|       | <i>iSKS·N</i>                                      | 40 54                                           |                             |  |
|       | <i>L·NE</i>                                        | 54.5                                            |                             |  |
|       | $\Delta = 73^\circ$ . Aleutian Islands.            |                                                 |                             |  |



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|    |                                                  |                                |                                                                   |
|----|--------------------------------------------------|--------------------------------|-------------------------------------------------------------------|
| 20 | <i>L</i> · <i>NE</i>                             | 8 <sup>h</sup> 14 <sup>m</sup> |                                                                   |
| 20 | <i>e</i> · <i>Z'</i>                             | 12 34 53                       |                                                                   |
| 20 | <i>ePKP</i> · <i>Z'</i>                          | 12 49 34                       |                                                                   |
|    | <i>ePP</i> · <i>Z</i>                            | 51 10                          |                                                                   |
|    | <i>ePS</i> · <i>NE</i>                           | 13 00 48                       |                                                                   |
|    | <i>ePPS</i> · <i>NE</i>                          | 02.2                           |                                                                   |
|    | <i>eSS</i> · <i>N</i>                            | 07 41                          |                                                                   |
|    | <i>eSSS</i> · <i>NE</i>                          | 12.2                           |                                                                   |
|    | <i>L</i> · <i>NE</i>                             | 28                             |                                                                   |
|    | $\Delta = 119^\circ$ . New Guinea.               |                                |                                                                   |
| 21 | <i>eP</i> · <i>Z'</i>                            | 21 24 43                       |                                                                   |
|    | <i>i</i> · <i>Z'Z</i>                            | 24 47                          |                                                                   |
|    | <i>i</i> · <i>Z'Z</i>                            | 24 55                          |                                                                   |
|    | <i>ePP</i> · <i>E</i>                            | 27 46                          |                                                                   |
|    | <i>e</i> · <i>NE</i>                             | 34.8                           |                                                                   |
|    | <i>iSKS</i> · <i>NE</i>                          | 34 59                          |                                                                   |
|    | <i>L</i> · <i>NE</i>                             | 51.5                           |                                                                   |
|    | $\Delta = 82^\circ$ . Colombia-Venezuela border. |                                |                                                                   |
| 22 | <i>eP</i> · <i>Z'</i>                            | 0 27 54                        |                                                                   |
|    | $\Delta = 56^\circ$ . Tibet.                     |                                |                                                                   |
| 22 | <i>eP</i> · <i>Z'</i>                            | 1 51 54                        |                                                                   |
|    | <i>L</i> · <i>NE</i>                             | 2 12                           |                                                                   |
|    | $\Delta = 56^\circ$ . Tibet.                     |                                |                                                                   |
| 23 | <i>e</i> · <i>E</i>                              | 22 27 11                       |                                                                   |
|    | <i>L</i> · <i>NE</i>                             | 53                             |                                                                   |
|    | $\Delta = 107^\circ$ . Northern Chile.           |                                |                                                                   |
| 24 | <i>iP</i> · <i>Z'ZNE</i>                         | 19 15 05                       | <i>Z</i> : 10 <sup>s</sup> , + 20 $\mu$ .                         |
|    | <i>iS</i> · <i>NE</i>                            | 19 05                          | 10 <sup>s</sup> . <i>N</i> : - 50 $\mu$ , <i>E</i> : - 60 $\mu$ . |
|    | <i>L</i> · <i>NE</i>                             | 21.0                           |                                                                   |
|    | <i>M</i> · <i>E</i>                              | 22                             | 25 <sup>s</sup> , 250 $\mu$ .                                     |
|    | <i>M</i> · <i>N</i>                              | 24                             | 25 <sup>s</sup> , 250 $\mu$ .                                     |
|    | $\Delta = 22^\circ$ . Southern Turkey.           |                                |                                                                   |
| 25 | <i>iP</i> · <i>Z'ZNE</i>                         | 2 30 32                        | <i>Z</i> : 10 <sup>s</sup> , + 40 $\mu$ .                         |
|    | <i>iS</i> · <i>NE</i>                            | 34 30                          | 10 <sup>s</sup> . <i>N</i> : - 70 $\mu$ , <i>E</i> : - 80 $\mu$ . |
|    | <i>M</i> · <i>E</i>                              | 37                             | 30 <sup>s</sup> , 450 $\mu$ .                                     |
|    | $\Delta = 22^\circ$ . Southern Turkey.           |                                |                                                                   |
| 25 | <i>iP</i> · <i>Z'</i>                            | 7 18 40                        |                                                                   |
|    | <i>L</i> · <i>NE</i>                             | 36                             |                                                                   |
|    | $\Delta = 53^\circ$ . Outer Mongolia.            |                                |                                                                   |
| 25 | <i>eP</i> · <i>Z'Z</i>                           | 7 26 47                        |                                                                   |
|    | <i>L</i> · <i>NE</i>                             | 53                             |                                                                   |
|    | $\Delta = 73^\circ$ . Aleutian Islands.          |                                |                                                                   |

April

|    |                                                 |                                 |   |
|----|-------------------------------------------------|---------------------------------|---|
| 25 | <i>L</i> · <i>NE</i>                            | 11 <sup>h</sup> 14 <sup>m</sup> |   |
| 25 | <i>eSKS</i> · <i>E</i>                          | 11 30 40                        |   |
|    | <i>L</i> · <i>NE</i>                            | 57                              |   |
|    | $\Delta = 103^\circ$ . Molucca Passage.         |                                 |   |
| 25 | <i>eP</i> · <i>Z'</i>                           | 14 18 27                        |   |
|    | $\Delta = 64^\circ$ . Southern Alaska.          |                                 |   |
| 25 | <i>eP</i> · <i>Z'</i>                           | 17 56 46                        |   |
|    | <i>L</i> · <i>NE</i>                            | 18 21                           |   |
|    | $\Delta = 73^\circ$ . Aleutian Islands.         |                                 |   |
| 26 | <i>iP</i> · <i>Z'</i>                           | 2 19 39                         |   |
|    | <i>epP</i> · <i>Z'</i>                          | 20 20                           |   |
|    | $\Delta = 430$ . <i>h</i> = 200 km. Hindu Kush. |                                 |   |
| 26 | <i>eP</i> · <i>Z'Z</i>                          | 6 38 32                         |   |
|    | <i>iPP</i> · <i>Z'Z</i>                         | 38 46                           |   |
|    | <i>iS</i> · <i>NE</i>                           | 42 35                           |   |
|    | <i>L</i> · <i>NE</i>                            | 44.6                            |   |
|    | $\Delta = 22^\circ$ . Southern Turkey.          |                                 |   |
| 26 | <i>iP</i> · <i>Z'Z</i>                          | 15 19 56                        | + |
|    | <i>L</i> · <i>NE</i>                            | 46                              |   |
|    | $\Delta = 73^\circ$ . Kurile Islands.           |                                 |   |
| 28 | <i>eP</i> · <i>Z'Z</i>                          | 1 37 18                         | + |
|    | <i>iPP</i> · <i>Z</i>                           | 41 20                           | + |
|    | <i>eSKS</i> · <i>E</i>                          | 48 00                           |   |
|    | <i>eSKKS</i> · <i>E</i>                         | 48 10                           |   |
|    | <i>eS</i> · <i>E</i>                            | 48 50                           |   |
|    | $\Delta = 98^\circ$ . Philippine Islands.       |                                 |   |
| 28 | <i>L</i> · <i>NE</i>                            | 11 42                           |   |
| 28 | <i>eiP</i> · <i>Z'Z</i>                         | 15 00 24                        |   |
|    | <i>L</i> · <i>E</i>                             | 25                              |   |
|    | $\Delta = 73^\circ$ . Aleutian Islands.         |                                 |   |
| 29 | <i>L</i> · <i>NE</i>                            | 5 13                            |   |
| 29 | <i>iP</i> · <i>Z'</i>                           | 9 33 51                         | - |
| 29 | <i>eSKS</i> · <i>E</i>                          | 21 20.5                         |   |
|    | <i>L</i> · <i>NE</i>                            | 52                              |   |
|    | $\Delta = 100^\circ$ . Java.                    |                                 |   |

May

|   |                                         |          |  |
|---|-----------------------------------------|----------|--|
| 1 | <i>L</i> · <i>NE</i>                    | 1 07     |  |
| 1 | <i>eiP</i> · <i>Z'</i>                  | 23 39 37 |  |
|   | <i>L</i> · <i>NE</i>                    | 24 12    |  |
|   | $\Delta = 73^\circ$ . Aleutian Islands. |          |  |



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|    |                        |                                                |                             |
|----|------------------------|------------------------------------------------|-----------------------------|
| 2  | <i>eiP·Z'</i>          | 2 <sup>h</sup> 33 <sup>m</sup> 38 <sup>s</sup> |                             |
|    | $\Delta = 71^\circ$ .  | Aleutian Islands.                              |                             |
| 2  | <i>eP·Z'Z</i>          | 4 02 34                                        |                             |
|    | <i>ePP·ZN</i>          | 03 54                                          |                             |
|    | <i>iS·N</i>            | 08 12                                          |                             |
|    | <i>L·NE</i>            | 13                                             |                             |
|    | $\Delta = 35^\circ$ .  | Baffin Bay.                                    |                             |
| 2  | <i>eSS·NE</i>          | 11 18.2                                        |                             |
|    | <i>eSSS·N</i>          | 23.0                                           |                             |
|    | <i>L·NE</i>            | 48                                             |                             |
|    | $\Delta = 155^\circ$ . | South Pacific Ocean.                           |                             |
| 2  | <i>iP·Z'</i>           | 11 40 42                                       | -                           |
|    | $\Delta = 73^\circ$ .  | Aleutian Islands.                              |                             |
| 2  | <i>eiP·Z'</i>          | 11 50 21                                       |                             |
|    | $\Delta = 73^\circ$ .  | Aleutian Islands.                              |                             |
| 2  | <i>ePKP·Z'</i>         | 21 53 32                                       | doubtful.                   |
|    | <i>i·Z'</i>            | 53 49                                          |                             |
|    | $\Delta = 106^\circ$ . | $h = 600$ km.                                  | Flores Sea.                 |
| 3  | <i>L·NE</i>            | 15 34                                          |                             |
| 4  | <i>L·NE</i>            | 10 58                                          |                             |
| 4  | ( <i>L</i> )· <i>N</i> | 15 23                                          |                             |
|    | <i>L·NE</i>            | 27                                             |                             |
| 6  | <i>eS·N</i>            | 15 18 41                                       |                             |
|    | <i>L·NE</i>            | 26                                             |                             |
|    | $\Delta = 33^\circ$ .  | Northern Iran.                                 |                             |
| 7  | <i>L·NE</i>            | 6 18                                           |                             |
| 8  | <i>L·NE</i>            | 14 47                                          |                             |
|    | <i>M·E</i>             | 50                                             | 10 <sup>s</sup> . 2 $\mu$ . |
|    | $\Delta = 42^\circ$ .  | Kirghiz S.S.R.                                 |                             |
| 8  | <i>L·NE</i>            | 21 19                                          |                             |
| 9  | <i>L·NE</i>            | 9 07                                           |                             |
| 11 | <i>e·Z'</i>            | 18 53 36                                       |                             |
|    | <i>e·Z'</i>            | 54 24                                          |                             |
| 11 | <i>i·Z'</i>            | 19 56 43                                       | -                           |
| 12 | <i>L·NE</i>            | 2 09                                           |                             |
|    | <i>M·E</i>             | 10                                             | 14 <sup>s</sup> . 3 $\mu$ . |

May

|    |                        |                                                |          |
|----|------------------------|------------------------------------------------|----------|
| 12 | <i>ePP·ZN</i>          | 5 <sup>h</sup> 08 <sup>m</sup> 08 <sup>s</sup> |          |
|    | <i>eSKS·N</i>          | 13.6                                           |          |
|    | <i>eSKKS·NE</i>        | 14 58                                          |          |
|    | <i>ePS·E</i>           | 17.8                                           |          |
|    | <i>eSS·N</i>           | 24 42                                          |          |
|    | <i>L·NE</i>            | 47                                             |          |
|    | $\Delta = 120^\circ$ . | Sandwich group.                                |          |
| 12 | <i>L·NE</i>            | 7 20                                           |          |
| 12 | <i>L·NE</i>            | 8 02                                           |          |
| 12 | <i>ePP·Z</i>           | 11 46 52                                       |          |
|    | <i>ePPP·Z</i>          | 48 53                                          |          |
|    | <i>eSKS·E</i>          | 53 28                                          |          |
|    | <i>e·E</i>             | 55 38                                          |          |
|    | <i>e·E</i>             | 56 23                                          |          |
|    | <i>eSS·N</i>           | 12 01 23                                       |          |
|    | <i>L·N</i>             | 19                                             |          |
|    | $\Delta = 100^\circ$ . | Java.                                          |          |
| 13 | <i>iP·Z'</i>           | 2 31 36                                        | +        |
|    | $\Delta = 70^\circ$ .  | $h = 300$ km.                                  | Siberia. |
| 13 | <i>L·NE</i>            | 4 43                                           |          |
| 13 | <i>L·NE</i>            | 6 46                                           |          |
| 14 | <i>e·Z'</i>            | 2 16 24                                        |          |
|    | <i>e·Z'</i>            | 16 38                                          |          |
| 15 | <i>eP·Z'</i>           | 1 28 12                                        |          |
|    | $\Delta = 45^\circ$ .  | Northern Afghanistan.                          |          |
| 15 | <i>iP·Z'</i>           | 2 23 32                                        | -        |
|    | $\Delta = 85^\circ$ .  | Mexico.                                        |          |
| 17 | <i>i·Z'</i>            | 6 07 03                                        | -        |
| 17 | <i>L·NE</i>            | 21 27                                          |          |
| 18 | <i>iP·Z'Z</i>          | 5 35 39                                        |          |
|    | <i>eS·E</i>            | 45 10                                          |          |
|    | <i>eSS·N</i>           | 49.9                                           |          |
|    | <i>L·NE</i>            | 6 00                                           |          |
|    | $\Delta = 74^\circ$ .  | Aleutian Islands.                              |          |
| 19 | <i>L·NE</i>            | 3 31                                           |          |
| 19 | <i>iP·Z'</i>           | 20 57 25                                       |          |
|    | $\Delta = 81^\circ$ .  | Ryukyu Islands.                                |          |
| 19 | <i>eSKS·NE</i>         | 21 23.6                                        |          |
|    | <i>L·NE</i>            | 42                                             |          |
|    | $\Delta = 86^\circ$ .  | Nicaragua.                                     |          |



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|    |                                                      |                                                |                              |
|----|------------------------------------------------------|------------------------------------------------|------------------------------|
| 20 | <i>eS·E</i>                                          | 2 <sup>h</sup> 11 <sup>m</sup> 53 <sup>s</sup> |                              |
|    | <i>ePS·E</i>                                         | 12 26                                          |                              |
|    | <i>L·NE</i>                                          | 26                                             |                              |
|    | $\Delta = 73^\circ$ . Aleutian Islands.              |                                                |                              |
| 20 | <i>eP·Z'Z</i>                                        | 20 01 36                                       |                              |
|    | <i>eS·N</i>                                          | 05 02                                          |                              |
|    | <i>L·NE</i>                                          | 06.5                                           |                              |
|    | $\Delta = 17^\circ$ . Sicily.                        |                                                |                              |
| 21 | <i>iP·Z'</i>                                         | 1 25 03                                        |                              |
|    | <i>ipP·Z'Z</i>                                       | 25 27                                          | —                            |
|    | <i>iPP·ZNE</i>                                       | 28 47                                          |                              |
|    | <i>ipPP·Z</i>                                        | 29 11                                          | —                            |
|    | <i>i·Z</i>                                           | 29 54                                          |                              |
|    | <i>iSKS·NE</i>                                       | 35 25                                          |                              |
|    | <i>eS·NE</i>                                         | 35 51                                          |                              |
|    | <i>i·NE</i>                                          | 36 14                                          |                              |
|    | <i>iSP·ZN</i>                                        | 37 07                                          |                              |
|    | <i>i·Z</i>                                           | 38 16                                          |                              |
|    | <i>i·N</i>                                           | 42 11                                          |                              |
|    | <i>L·NE</i>                                          | 56                                             |                              |
|    | $\Delta = 92^\circ$ . $h = 100$ km. Mariana Islands. |                                                |                              |
| 21 | <i>eP·Z'Z</i>                                        | 11 48 06                                       |                              |
|    | <i>eS·N</i>                                          | 51 28                                          |                              |
|    | <i>L·NE</i>                                          | 53                                             |                              |
|    | $\Delta = 17^\circ$ . Sicily.                        |                                                |                              |
| 21 | <i>eP·Z'Z</i>                                        | 13 28 28                                       |                              |
|    | <i>eS·N</i>                                          | 31 52                                          |                              |
|    | <i>L·NE</i>                                          | 33.4                                           |                              |
|    | <i>M·E</i>                                           | 34.5                                           | 20 <sup>s</sup> . 10 $\mu$ . |
|    | $\Delta = 18^\circ$ . Greece.                        |                                                |                              |
| 22 | <i>iP·Z'Z</i>                                        | 13 41 24                                       | —                            |
|    | <i>iPcP·Z</i>                                        | 41 38                                          | —                            |
|    | <i>iS·NE</i>                                         | 51 06                                          | $N: +, E: -$ .               |
|    | <i>L·NE</i>                                          | 14 05                                          |                              |
|    | $\Delta = 75^\circ$ . Aleutian Islands.              |                                                |                              |
| 22 | <i>eP·Z'</i>                                         | 18 37 25                                       |                              |
|    | <i>eS·E</i>                                          | 41 21                                          |                              |
|    | <i>L·NE</i>                                          | 43.2                                           |                              |
|    | $\Delta = 22^\circ$ . Svalbard region.               |                                                |                              |
| 24 | <i>iP·Z'Z</i>                                        | 2 50 26                                        | +                            |
|    | <i>ePP·Z</i>                                         | 53 48                                          |                              |
|    | <i>iSKS·E</i>                                        | 3 00 50                                        |                              |
|    | <i>iS·E</i>                                          | 01 02                                          |                              |
|    | <i>eScS·E</i>                                        | 01 26                                          |                              |
|    | <i>L·NE</i>                                          | 20                                             |                              |
|    | $\Delta = 87^\circ$ . Colombia.                      |                                                |                              |
| 24 | <i>L·NE</i>                                          | 4 08                                           |                              |

May

|    |                                              |                      |                                            |
|----|----------------------------------------------|----------------------|--------------------------------------------|
| 25 | <i>L·NE</i>                                  | 16 <sup>h</sup> 28.6 |                                            |
| 26 | <i>iP·Z'ZNE</i>                              | 6 37 58              | $Z: 5^s, -40 \mu$ .                        |
|    | <i>iS·ZNE</i>                                | 41 28                | 10 <sup>s</sup> . $N: 75 \mu, E: 90 \mu$ . |
|    | <i>L·NE</i> (Wiechert)                       | 42 25                |                                            |
|    | <i>M·N</i>                                   | 46                   | 20 <sup>s</sup> . 1600 $\mu$ .             |
|    | Amplitudes read on Wiechert-records.         |                      |                                            |
|    | $\Delta = 19^\circ$ . Turkey.                |                      |                                            |
| 26 | <i>eP·Z'Z</i>                                | 8 59 11              |                                            |
|    | <i>L·NE</i>                                  | 9 05                 |                                            |
|    | $\Delta = 19^\circ$ . Turkey.                |                      |                                            |
| 26 | <i>eP·Z'</i>                                 | 9 18 09              |                                            |
|    | $\Delta = 19^\circ$ . Turkey.                |                      |                                            |
| 26 | <i>(i)·Z'</i>                                | 9 20 58              | in the time-break.                         |
| 26 | <i>iP·Z'Z</i>                                | 9 41 00              | —                                          |
|    | <i>iS·NE</i>                                 | 44 38                |                                            |
|    | <i>iL·E</i>                                  | 46.9                 |                                            |
|    | <i>M·NE</i>                                  | 48                   | $N: 21^s, 45 \mu, E: 18^s, 40 \mu$ .       |
|    | $\Delta = 19^\circ$ . Turkey.                |                      |                                            |
| 26 | <i>L·N</i>                                   | 16 43.5              |                                            |
| 27 | <i>L·NE</i>                                  | 6 32                 |                                            |
| 27 | <i>L·NE</i>                                  | 7 16.5               |                                            |
| 27 | <i>eP·Z'Z</i>                                | 11 05 56             |                                            |
|    | <i>eS·NE</i>                                 | 09 30                |                                            |
|    | <i>L·NE</i>                                  | 11.2                 |                                            |
|    | $\Delta = 19^\circ$ . Turkey.                |                      |                                            |
| 28 | <i>eP·Z'</i>                                 | 0 14.3               |                                            |
|    | <i>eS·E</i>                                  | 17.9                 |                                            |
|    | <i>L·E</i>                                   | 20                   |                                            |
|    | $\Delta = 19^\circ$ . Turkey.                |                      |                                            |
| 28 | <i>L·NE</i>                                  | 5 46                 |                                            |
| 28 | <i>eP·Z'</i>                                 | 6 02 16              |                                            |
|    | <i>ePcP·Z</i>                                | 02 35                |                                            |
|    | <i>eS·E</i>                                  | 10 53                |                                            |
|    | <i>L·NE</i>                                  | 22                   |                                            |
|    | $\Delta = 65^\circ$ . Pakistan-Burma border. |                      |                                            |
| 29 | <i>eP·Z'Z</i>                                | 10 22 08             |                                            |
|    | <i>L·NE</i>                                  | 28.5                 |                                            |
|    | $\Delta = 19^\circ$ . Turkey.                |                      |                                            |
| 29 | <i>iP·Z'Z</i>                                | 18 43 45             | —                                          |
|    | <i>iS·NE</i>                                 | 47 19                |                                            |
|    | $\Delta = 20^\circ$ . Southern Greece.       |                      |                                            |



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29 L·NE 22<sup>h</sup>58<sup>m</sup>

30 iPKP·Z'Z 0 38 34 -  
L·NE 1.6  
Δ = 144°. Tonga Islands.

30 L·E 14 38

31 e(PKP)·E 2 33.9  
e(SP)·E 42 24  
e(PS)·E 43 22  
E-record only.  
Δ = 105°. h = 600 km. Argentina.

31 L·E 3 57

31 iSKS·NE 22 21 01  
eS·N 21 48  
Δ = 87°. Colombia.

31 iP·Z'Z 22 28 43  
eS·NE 38 12  
L·NE 54  
Δ = 73°. Aleutian Islands.

June

1 iP·Z'Z 5 31 18 +  
eS·N 34 54  
L·NE 36.7  
Δ = 20°. Turkey.

1 iP·Z'Z 21 12 42 +  
L·NE 19  
Δ = 20°. Turkey.

2 iP·Z'Z 1 16 23  
L·NE 22  
Δ = 20°. Turkey.

2 iP·Z' 21 32 55  
L·E 22 02  
Δ = 70°. Kamchatka.

4 L·NE 17 08

4 iP·Z' 20 31 14  
e·N 42 13  
e·E 42 41  
L·NE 21 08  
Central Sumatra.

5 iP·Z'Z 7 22 08  
eS·NE 26.7  
L·NE 29.5  
Δ = 27°. North Atlantic Ocean.

June

5 eP·Z'Z 14<sup>h</sup>08<sup>m</sup>51<sup>s</sup>  
ePP·N 11.4  
eS·E 17 58  
e(PS)·N 18 13  
L·NE 35  
Δ = 69°. Kamchatka.

5 i·Z' 22 29 09 +  
e·Z 30.1  
e·N 43.7  
L·NE 23 02

6 L·NE 20 40

7 L·NE 0 26

8 L·NE 4 21

8 L·NE 7 09

9 L·NE 4 31

9 L·NE 4 54

10 eP·Z'Z 1 14 13  
ePP·Z'Z 18 24  
iSKS·NE 24 43  
iSKKS·NE 25 29  
e(PS)·E 28 03  
L·E 50  
Δ = 105°. Indonesia.

10 e(PKP)·Z' 3 30 01  
ePP·Z 30 58  
eSKS·N 37 13  
L·NE 4 02  
Δ = 100°. h = 150 km. Mariana Islands.

11 L·NE 4 44

11 iP·Z'Z 5 05 10 +  
ePPP·ZE 07 58  
eS·N 11 23  
esS·N 12 36  
eSS·NE 14 48  
Δ = 43°. h = 200 km. Hindu Kush.

11 iPKP·Z'Z 15 09 30 +  
i·Z' 09 44  
ePKS·N 13 12  
ePP·ZE 13 22  
e·E 23 55  
e·N 27 21  
L·NE 16 02  
Δ = 153°. h = 100 km. Kermadec Islands.



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June

11 *iP·Z'Z* 19<sup>h</sup>02<sup>m</sup>03<sup>s</sup> -  
*e·Z'* 02 17  
*iSKS·NE* 12 27  
*L·NE* 30  
*M·N* 34 30<sup>s</sup>. 75  $\mu$ .

12 *iP·Z'Z* 0 05 29 +  
*eS·NE* 14 44  
*L·NE* 31  
 $\Delta = 72^\circ$ . Aleutian Islands.

12 *iP·Z'Z* 8 40 14 +  
*iPcP·Z* 40 25 -  
*eS·NE* 49 47  
*iPS·E* 50 07  
*L·NE* 9 05  
 $\Delta = 74^\circ$ . Japan.

13 *iP·Z'Z* 10 52 11 +  
*iPcP·Z* 52 32  
*iS·NE* 11 01 39  
*iSKS·N* 02 22  
*iSS·N* 06 47  
*L·NE* 14.7  
*M·N* 18 30<sup>s</sup>. 60  $\mu$ .  
 $\Delta = 73^\circ$ . Aleutian Islands.

14 *eP·Z* 6 35 49  
*eS·NE* 45 15  
*L·NE* 7 01  
 $\Delta = 73^\circ$ . Aleutian Islands.

14 *eP·Z'* 11 45 13  
*L·NE* 12 00  
 $\Delta = 45^\circ$ . Afghanistan.

15 *ePP·Z* 1 01.9  
*eSKS·N* 08.5  
*e·NE* 10 42  
*eSS·NE* 16.1  
*L·NE* 31  
 $\Delta = 97^\circ$ . Indian Ocean.

15 *iP·Z'Z* 18 29 49 -  
*eS·E* 39.3  
*L·NE* 55  
 $\Delta = 73^\circ$ . Aleutian Islands.

16 *e·Z'* 0 18 30  
*e·Z'* 18 44

June

18 *eP·Z'Z* 2<sup>h</sup>23<sup>m</sup>55<sup>s</sup>  
*eS·NE* 33 29  
*ePS·N* 33 57  
*eSS·E* 38 47  
*eSSS·E* 42.2  
*L·NE* 47  
 $\Delta = 75^\circ$ . Burma.

18 *L·NE* 12 02

18 *iP·Z'Z* 15 00 02 -  
*ePcP·Z'* 00 17  
*iPP·Z* 02 47  
*ePPP·ZE* 04 37  
*iS·NE* 09 37  
*ePS·E* 10 10  
*L* 15.6  
 $\Delta = 75^\circ$ . Burma.

18 *ePKP·Z'Z* 18 15 48 +  
*eSS·E* 38 14  
*L·NE* 19 02  
 $\Delta = 145^\circ$ . Loyalty Islands region.

19 *ePKP·Z'Z* 1 49 37  
*iPKP2·Z'Z* 49 53  
*L·NE* 2 45  
 $\Delta = 148^\circ$ . Tonga Islands.

19 *ePKP·Z* 8 21 04  
*L·NE* 9 08  
In the paper-shift.  
 $\Delta = 140^\circ$ . Fiji Islands.

20 *L·NE* 1 57

21 *iP·Z'Z* 18 49 33  
*L·NE* 19 17  
 $\Delta = 72^\circ$ . Kurile Islands region.

21 *L·NE* 22 48

22 *iP·Z'Z* 6 31 48 +  
*i·Z* 32 10 -  
*i·Z* 32 28 -  
*iSKS·NE* 42 08  
*iS·NE* 42 22  
*i·E* 42 58  
*L·E* 59.5  
 $\Delta = 86^\circ$ . Mexico.

22 *L·NE* 19 51



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|      |                                           |                                                |                                                 |
|------|-------------------------------------------|------------------------------------------------|-------------------------------------------------|
| June |                                           |                                                |                                                 |
| 23   | <i>eP·Z</i>                               | 0 <sup>h</sup> 04 <sup>m</sup> 59 <sup>s</sup> |                                                 |
|      | <i>ePP·ZNE</i>                            | 09 30                                          |                                                 |
|      | <i>ePPP·N</i>                             | 11 33                                          |                                                 |
|      | <i>eSKS·E</i>                             | 15 32                                          |                                                 |
|      | <i>eSKKS·N</i>                            | 16 30                                          |                                                 |
|      | <i>iPS·E</i>                              | 19 00                                          |                                                 |
|      | <i>eSS·NE</i>                             | 24 42                                          |                                                 |
|      | <i>eSSS·N</i>                             | 29.0                                           |                                                 |
|      | <i>L·N</i>                                | 42                                             |                                                 |
|      | <i>M·NE</i>                               | 46                                             | 30 <sup>s</sup> . N: 200 $\mu$ , E: 125 $\mu$ . |
|      | $\Delta = 110^\circ$ . New Guinea.        |                                                |                                                 |
| 23   | <i>iP·Z'Z</i>                             | 3 37 39                                        | <i>Z'</i> : -, <i>Z</i> : +.                    |
|      | <i>eS·NE</i>                              | 46 24                                          |                                                 |
|      | <i>eScS·N</i>                             | 47 42                                          |                                                 |
|      | <i>eSS·N</i>                              | 50.6                                           |                                                 |
|      | <i>L·NE</i>                               | 4 02                                           |                                                 |
|      | $\Delta = 64^\circ$ . Alaska.             |                                                |                                                 |
| 23   | <i>L·NE</i>                               | 4 56                                           |                                                 |
| 24   | <i>L·NE</i>                               | 4 42                                           |                                                 |
| 24   | <i>eP·Z'Z</i>                             | 10 02 30                                       |                                                 |
|      | <i>eSKS·E</i>                             | 12 51                                          |                                                 |
|      | <i>eS·NE</i>                              | 13 03                                          |                                                 |
|      | <i>L·NE</i>                               | 32                                             |                                                 |
|      | $\Delta = 86^\circ$ . Mexico.             |                                                |                                                 |
| 24   | <i>L·NE</i>                               | 11 46                                          |                                                 |
| 24   | <i>L·NE</i>                               | 12 12                                          |                                                 |
| 26   | <i>eSKS·NE</i>                            | 3 10 53                                        |                                                 |
|      | <i>eS·NE</i>                              | 11 10                                          |                                                 |
|      | <i>eSS·E</i>                              | 17.0                                           |                                                 |
|      | <i>L·NE</i>                               | 36                                             |                                                 |
|      | $\Delta = 87^\circ$ . Indian Ocean.       |                                                |                                                 |
| 27   | <i>eP·Z</i>                               | 0 18 45                                        | 4 <sup>s</sup> . 25 $\mu$ .                     |
|      | <i>i·Z</i>                                | 18 49                                          |                                                 |
|      | <i>iPP·ZNE</i>                            | 20 52                                          |                                                 |
|      | <i>iS·NE</i>                              | 26 15                                          | 10 <sup>s</sup> . N: 300 $\mu$ , E: 300 $\mu$ . |
|      | <i>eSS·N</i>                              | 29 53                                          |                                                 |
|      | <i>L·NE</i>                               | 33                                             |                                                 |
|      | <i>M·NE</i>                               | 36                                             | 10 <sup>s</sup> . N: 900 $\mu$ , E: 900 $\mu$ . |
|      | Wiechert readings.                        |                                                |                                                 |
|      | $\Delta = 53^\circ$ . Lake Baikal region. |                                                |                                                 |
| 27   | <i>L·NE</i>                               | 7.3                                            |                                                 |
| 28   | <i>e(S)·NE</i>                            | 21 32 10                                       |                                                 |
|      | <i>L·NE</i>                               | 34.3                                           |                                                 |
|      | $\Delta = 21^\circ$ . Algeria.            |                                                |                                                 |

|      |                                           |                                                |           |
|------|-------------------------------------------|------------------------------------------------|-----------|
| June |                                           |                                                |           |
| 29   | <i>iP·Z'Z</i>                             | 7 <sup>h</sup> 59 <sup>m</sup> 49 <sup>s</sup> | —         |
|      | <i>eS·N</i>                               | 8 09 <sup>m</sup> 19                           |           |
|      | <i>e(SKS)·N</i>                           | 10 07                                          |           |
|      | <i>L·NE</i>                               | 23                                             |           |
|      | $\Delta = 73^\circ$ . Aleutian Islands.   |                                                |           |
| 29   | <i>eP·Z</i>                               | 22 43 11                                       | Doubtful. |
|      | <i>ePP·N</i>                              | 45.2                                           |           |
|      | <i>eS·N</i>                               | 50.7                                           |           |
|      | <i>eSS·NE</i>                             | 54.3                                           |           |
|      | <i>L·NE</i>                               | 23 01.8                                        |           |
|      | $\Delta = 53^\circ$ . Lake Baikal region. |                                                |           |

December 1957.

HENRY JENSEN



Microseisms. København

| 1957 |    | Z         |           |           |           | N         |           |           |           | E         |           |           |           | 1957 |    | Jan.      |           |
|------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|----|-----------|-----------|
|      |    | 0h        | 6h        | 12h       | 18h       | 0h        | 6h        | 12h       | 18h       | 0h        | 6h        | 12h       | 18h       |      |    |           |           |
| 1    | 1  | ..        | ..        | ..        | ..        | 2 0.9 4.8 | 2 0.6 4.7 | 2 0.5 4.5 | 2 0.6 5.3 | 2 0.8 5.0 | 2 0.6 4.8 | 2 0.6 4.7 | 2 0.6 4.4 | 1    | 1  | 2 0.6 4.4 | 2 0.6 4.4 |
| 2    | 2  | ..        | ..        | ..        | ..        | 2 0.6 5.1 | ..        | ..        | 2 0.6 4.0 | 2 0.8 4.6 | ..        | ..        | 2 0.9 4.0 | 2    | 2  | 2 0.9 4.0 | 2 0.9 4.0 |
| 3    | 3  | ..        | ..        | ..        | ..        | 2 0.7 3.8 | 2 0.8 3.8 | 2 1.0 3.5 | 2 1.3 3.8 | 2 1.0 4.0 | 2 1.2 4.0 | 2 1.3 3.6 | 2 2.0 3.4 | 3    | 3  | 2 2.0 3.4 | 2 2.0 3.4 |
| 4    | 4  | ..        | ..        | ..        | ..        | 2 1.1 3.7 | 2 1.2 4.0 | 2 0.8 4.3 | 2 0.7 4.4 | 2 1.3 4.1 | 2 1.1 4.5 | 2 0.7 4.3 | 2 0.7 4.3 | 4    | 4  | 2 0.7 4.3 | 2 0.7 4.3 |
| 5    | 5  | ..        | ..        | ..        | ..        | 2 1.0 4.2 | 2 1.2 4.6 | 2 1.6 5.2 | 2 1.6 5.1 | 2 0.7 4.6 | 2 1.3 4.7 | 2 1.5 5.1 | 2 1.5 4.6 | 5    | 5  | 2 1.5 4.6 | 2 1.5 4.6 |
| 6    | 6  | ..        | ..        | ..        | ..        | 2 1.2 5.0 | 2 1.6 4.6 | 2 1.9 4.8 | 2 1.1 4.6 | 2 1.2 4.5 | 2 2.1 4.7 | 2 1.1 4.8 | 2 1.5 4.7 | 6    | 6  | 2 1.5 4.7 | 2 1.5 4.7 |
| 7    | 7  | ..        | ..        | ..        | ..        | 2 1.2 4.5 | 2 1.2 4.8 | 2 1.0 5.5 | 2 1.4 5.5 | 2 1.4 4.5 | 2 1.2 4.7 | 2 1.4 4.9 | 2 1.7 5.0 | 7    | 7  | 2 1.7 5.0 | 2 1.7 5.0 |
| 8    | 8  | ..        | ..        | ..        | ..        | 2 1.5 5.3 | 2 1.9 5.3 | 2 2.5 4.9 | 2 3.- 5.8 | 2 2.0 5.2 | 2 2.0 5.0 | 2 3.- 5.2 | 2 2.5 4.9 | 8    | 8  | 2 2.5 4.9 | 2 2.5 4.9 |
| 9    | 9  | ..        | ..        | ..        | ..        | 2 3.- 5.2 | 2 3.- 5.0 | 2 2.6 5.0 | 2 1.9 4.8 | 2 2.5 5.5 | 2 2.5 4.6 | 2 2.7 5.0 | 2 2.4 5.2 | 9    | 9  | 2 2.4 5.2 | 2 2.4 5.2 |
| 10   | 10 | ..        | ..        | ..        | 1 3.8 5.6 | 2 2.8 5.4 | 2 2.4 5.2 | ..        | 1 5.- 5.6 | 2 2.3 5.2 | 2 2.4 5.0 | ..        | 1 3.- 5.7 | 10   | 10 | 1 3.- 5.7 | 1 3.- 5.7 |
| 11   | 11 | 1 2.0 6.2 | 1 2.0 5.9 | 2 1.4 5.0 | 2 1.2 5.6 | 1 3.- 5.3 | 1 3.- 5.6 | 2 1.6 6.0 | 2 1.9 5.5 | 1 3.- 5.5 | 1 1.8 5.0 | 2 1.7 6.0 | 2 1.9 5.3 | 11   | 11 | 2 1.9 5.3 | 2 1.9 5.3 |
| 12   | 12 | 2 1.6 5.3 | 2 1.0 4.8 | 2 1.4 5.1 | 2 1.4 4.7 | 2 1.5 5.4 | 2 1.2 5.8 | 2 1.5 5.3 | 2 1.5 4.8 | 2 1.4 5.0 | 2 2.0 4.4 | 2 1.6 4.8 | 2 2.1 4.5 | 12   | 12 | 2 2.1 4.5 | 2 2.1 4.5 |
| 13   | 13 | 2 1.2 4.0 | 2 0.9 4.6 | 2 1.0 4.8 | 2 0.9 4.4 | 2 2.2 4.7 | 2 1.4 4.5 | 2 1.2 4.4 | 2 1.4 5.0 | 2 1.5 4.7 | 2 1.2 4.8 | ..        | ..        | 13   | 13 | ..        | ..        |
| 14   | 14 | 2 0.8 4.7 | 2 0.7 4.9 | 2 0.6 5.0 | 2 0.9 4.7 | 2 1.3 4.5 | 2 1.2 4.5 | 2 1.4 5.6 | 2 1.4 5.7 | ..        | ..        | 2 1.4 5.8 | 2 1.5 6.2 | 14   | 14 | 2 1.5 6.2 | 2 1.5 6.2 |
| 15   | 15 | 2 1.2 4.9 | 2 1.8 5.4 | ..        | 2 3.8 6.0 | 2 1.4 4.9 | 2 2.2 5.8 | ..        | ..        | 2 1.4 5.0 | 2 2.4 5.8 | ..        | 2 4.- 6.8 | 15   | 15 | 2 4.- 6.8 | 2 4.- 6.8 |
| 16   | 16 | 2 2.2 6.2 | 2 2.0 6.4 | 2 1.2 5.5 | 2 1.4 5.8 | ..        | ..        | ..        | 2 2.5 5.9 | 2 3.- 5.7 | 2 1.8 5.5 | 2 3.- 5.8 | 2 2.5 5.6 | 16   | 16 | 2 2.5 5.6 | 2 2.5 5.6 |
| 17   | 17 | 2 1.4 5.2 | 2 0.8 5.1 | 2 0.8 5.4 | 2 0.6 4.9 | 2 1.0 5.1 | 2 1.2 4.8 | 2 2.5 5.8 | 2 4.- 6.6 | ..        | ..        | 2 1.2 5.6 | 2 1.3 5.0 | 17   | 17 | 2 1.3 5.0 | 2 1.3 5.0 |
| 18   | 18 | ..        | ..        | 2 1.1 5.5 | 2 2.0 5.7 | 2 3.- 6.1 | 2 3.- 6.0 | 2 4.- 7.0 | 2 5.- 7.1 | 2 4.- 7.3 | 2 8.- 7.4 | 2 5.- 7.1 | 2 4.- 7.0 | 18   | 18 | 2 3.- 6.6 | 2 3.- 6.6 |
| 19   | 19 | 2 4.2 6.8 | 2 4.- 7.2 | 2 3.- 6.1 | 2 3.- 6.0 | 2 5.- 6.4 | 2 6.- 6.7 | 2 6.- 6.3 | 2 6.- 6.2 | 2 6.- 5.8 | 2 6.- 6.5 | 2 6.- 6.3 | 2 6.- 5.8 | 19   | 19 | 2 4.- 7.0 | 2 4.- 7.0 |
| 20   | 20 | 2 4.- 6.2 | 2 4.- 6.3 | 2 4.- 6.2 | 2 3.0 5.7 | 2 7.- 5.4 | 2 5.- 5.4 | 2 3.9 5.7 | 2 6.- 5.9 | 2 5.- 5.4 | 2 4.- 5.5 | 2 6.- 5.3 | 2 4.- 5.7 | 20   | 20 | 2 6.- 5.8 | 2 6.- 5.8 |
| 21   | 21 | 2 3.0 5.8 | 2 2.6 6.4 | 2 2.8 5.7 | 2 3.8 5.9 | 2 5.- 6.1 | 2 4.- 6.2 | 2 4.- 5.6 | 2 3.2 5.9 | 2 6.- 5.8 | 2 6.- 5.5 | 2 6.- 5.3 | 2 4.0 5.5 | 21   | 21 | 2 4.- 5.7 | 2 4.- 5.7 |
| 22   | 22 | 2 3.9 5.6 | 2 3.0 6.2 | 2 2.9 5.8 | 2 2.1 5.3 | 2 4.2 5.5 | 2 3.2 5.8 | 2 2.4 5.1 | 2 2.4 5.2 | 2 3.4 5.8 | 2 4.2 5.4 | 2 2.7 5.4 | 2 4.0 5.5 | 22   | 22 | 2 4.0 5.5 | 2 4.0 5.5 |
| 23   | 23 | 2 2.3 5.8 | 2 1.9 5.2 | ..        | ..        | 2 2.1 5.0 | 2 2.5 5.4 | 2 2.4 5.5 | 2 1.8 5.6 | 2 2.8 4.8 | 2 2.2 5.0 | 2 2.7 5.4 | 2 2.5 6.0 | 23   | 23 | 2 2.5 6.0 | 2 2.5 6.0 |
| 24   | 24 | ..        | ..        | 2 1.5 5.2 | 2 1.5 5.2 | 2 2.1 5.0 | 2 2.5 5.4 | 2 2.4 5.5 | 2 1.8 5.6 | 2 2.8 4.8 | 2 2.2 5.0 | 2 2.7 5.4 | 2 2.5 6.0 | 24   | 24 | 2 2.5 6.0 | 2 2.5 6.0 |
| 25   | 25 | 2 1.6 6.0 | 2 2.0 6.6 | 2 2.0 5.3 | 2 0.9 5.8 | 2 2.0 6.0 | 2 0.9 5.0 | 2 1.4 5.3 | 2 1.4 5.7 | 2 1.8 5.8 | 2 1.5 5.3 | 2 2.0 5.8 | 2 1.1 4.9 | 25   | 25 | 2 1.1 4.9 | 2 1.1 4.9 |
| 26   | 26 | 2 0.9 5.0 | 2 1.0 5.0 | 2 1.4 5.1 | 2 1.6 5.0 | 2 1.1 4.8 | 2 1.2 5.1 | 2 1.8 5.7 | 2 1.8 5.8 | 2 2.2 5.0 | 2 1.5 5.3 | 2 2.0 5.8 | 2 2.5 5.4 | 26   | 26 | 2 2.5 5.4 | 2 2.5 5.4 |
| 27   | 27 | 2 1.5 5.6 | 2 1.6 6.0 | ..        | ..        | 2 2.0 5.3 | 2 2.2 5.8 | 2 3.4 5.5 | 2 3.2 5.8 | 2 2.5 5.4 | 2 3.- 5.3 | 2 3.- 5.4 | 2 3.- 5.5 | 27   | 27 | 2 3.- 5.5 | 2 3.- 5.5 |
| 28   | 28 | 2 1.9 6.3 | 2 2.0 5.8 | 2 2.4 6.3 | 2 1.6 5.6 | 2 3.2 5.3 | 2 3.4 5.4 | 2 2.2 5.5 | 2 2.1 5.7 | 2 3.- 5.8 | 2 4.- 5.9 | 2 2.6 5.4 | 2 2.8 5.7 | 28   | 28 | 2 2.8 5.7 | 2 2.8 5.7 |
| 29   | 29 | 2 1.6 6.0 | 2 2.2 5.7 | 2 1.6 5.4 | 2 2.0 5.7 | 2 3.- 5.6 | 2 2.8 5.8 | 2 3.0 6.3 | 2 3.4 5.8 | 2 2.4 5.8 | 2 2.8 5.3 | 2 1.9 6.0 | 2 2.8 5.5 | 29   | 29 | 2 2.8 5.5 | 2 2.8 5.5 |
| 30   | 30 | 2 2.2 5.8 | 2 2.5 5.4 | 2 1.8 5.8 | 2 1.6 6.1 | 2 3.8 6.4 | 2 3.0 6.0 | 2 3.0 6.0 | 2 2.2 5.6 | 2 2.5 5.6 | 2 3.0 5.5 | 2 3.0 5.1 | 2 1.9 5.8 | 30   | 30 | 2 1.9 5.8 | 2 1.9 5.8 |
| 31   | 31 | 2 1.5 5.9 | 2 1.4 5.4 | 2 2.0 5.9 | 2 2.0 5.5 | 2 2.0 5.9 | 2 2.0 5.6 | 2 2.2 5.9 | 2 2.2 6.2 | 2 2.0 5.3 | 2 2.0 5.6 | 2 2.0 5.4 | 2 2.6 6.1 | 31   | 31 | 2 2.6 6.1 | 2 2.6 6.1 |



Microseisms. København

| 1957<br>Febr. | Z         |           |           |           | N         |           |           |           | E         |           |           |           | 1957<br>Febr. |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
|               | 0h        | 6h        | 12h       | 18h       | 0h        | 6h        | 12h       | 18h       | 0h        | 6h        | 12h       | 18h       |               |
| 1             | 2 1.9 5.6 | 2 1.8 5.5 | 2 1.8 5.3 | 2 1.1 5.2 | 2 3.5 6.2 | 2 3.2 5.9 | 2 1.8 5.4 | 2 2.0 5.5 | 2 2.8 5.6 | 2 2.8 5.6 | 2 2.4 5.8 | 2 1.9 5.5 | 1             |
| 2             | 2 1.8 5.4 | 2 1.2 5.5 | 2 1.2 5.1 | 2 1.0 5.6 | 2 2.1 5.5 | 2 1.8 5.2 | 2 1.9 4.9 | 2 1.6 4.7 | 2 1.8 5.2 | 2 2.0 5.0 | 2 1.9 4.8 | 2 1.4 5.1 | 2             |
| 3             | .. ..     | .. ..     | 2 1.2 5.7 | 2 1.2 5.3 | 2 2.2 6.0 | 2 1.9 5.1 | 2 1.8 5.5 | .. ..     | 2 2.0 4.7 | 2 1.6 5.2 | 2 2.0 5.4 | .. ..     | 3             |
| 4             | 2 1.4 5.3 | 2 1.5 5.5 | 2 1.7 5.1 | 2 1.6 5.2 | .. ..     | 2 2.3 5.0 | 2 2.4 5.7 | 2 2.0 5.2 | .. ..     | 2 2.5 5.6 | 2 2.4 4.9 | 2 2.6 5.0 | 4             |
| 5             | 2 1.8 5.5 | 2 1.8 5.2 | 2 1.8 4.9 | 2 2.2 5.8 | 2 3.0 5.6 | 2 2.3 4.8 | 2 2.0 5.5 | 2 4.- 5.8 | 2 2.5 5.3 | 2 2.1 5.0 | 2 2.6 5.9 | 2 3.0 5.3 | 5             |
| 6             | 2 1.6 5.7 | 2 1.5 5.4 | 2 0.9 4.8 | 2 1.0 4.5 | 2 3.2 5.5 | 2 1.6 5.1 | 2 1.4 4.7 | 2 1.3 4.3 | 2 2.5 5.5 | 2 1.9 5.5 | 2 1.7 4.6 | 2 1.6 4.8 | 6             |
| 7             | 2 1.0 4.4 | 2 1.1 4.5 | 2 0.8 4.3 | 2 0.6 4.6 | 2 1.7 4.2 | 2 1.8 4.2 | 2 1.2 4.9 | 2 0.9 4.8 | 2 2.0 4.7 | 2 2.2 4.7 | 2 1.6 4.8 | 2 1.5 5.0 | 7             |
| 8             | 2 0.5 4.7 | 2 0.6 4.8 | 2 0.9 4.8 | 2 1.0 4.6 | 2 1.1 4.9 | 2 1.2 5.1 | 2 1.4 4.7 | 2 1.5 4.5 | 2 1.3 4.9 | 2 1.3 4.6 | 2 1.5 5.0 | 2 1.8 5.1 | 8             |
| 9             | 2 1.0 4.9 | 2 1.2 5.0 | 2 1.1 4.9 | 2 1.2 4.6 | 2 1.4 5.1 | 2 1.8 5.0 | 2 1.4 5.2 | 2 1.6 5.5 | 2 2.1 4.6 | 2 2.0 5.1 | 2 2.3 4.8 | 2 1.5 5.0 | 9             |
| 10            | 2 0.9 4.2 | 2 1.0 4.7 | 2 1.0 5.3 | 2 0.9 5.2 | 2 1.3 5.1 | 2 1.0 4.9 | 2 0.8 5.1 | 2 0.8 5.5 | 2 1.5 4.9 | 2 1.5 5.0 | 2 2.0 5.3 | 2 1.2 6.0 | 10            |
| 11            | .. ..     | 2 0.7 4.8 | .. ..     | .. ..     | .. ..     | 2 1.2 5.6 | 2 0.9 5.9 | 2 1.4 6.2 | .. ..     | 2 1.0 5.4 | 2 1.1 5.5 | 2 1.4 5.5 | 11            |
| 12            | 2 0.6 5.1 | 2 0.8 5.0 | 2 0.9 4.5 | 2 0.9 4.4 | 2 0.9 5.4 | 2 1.0 4.9 | 2 0.9 4.4 | 2 1.4 4.2 | 2 1.5 5.1 | 2 1.5 5.0 | 2 1.5 4.2 | 2 1.9 3.7 | 12            |
| 13            | 2 0.7 4.2 | 2 0.9 4.6 | 2 1.1 4.3 | 2 1.2 4.9 | 2 1.0 3.9 | 2 1.1 4.6 | 2 1.2 5.0 | 2 1.6 5.8 | 2 1.9 3.9 | 2 1.4 4.3 | 2 1.8 5.0 | 2 1.8 5.2 | 13            |
| 14            | 2 1.3 4.4 | 2 1.6 4.1 | 2 0.8 4.7 | 2 0.9 4.9 | 2 1.6 5.5 | 2 1.8 6.2 | 2 0.9 4.6 | 2 0.8 5.0 | 2 2.1 5.3 | 2 1.9 5.3 | 2 1.4 4.9 | 2 1.0 5.1 | 14            |
| 15            | 2 0.6 4.6 | 2 0.6 4.6 | 2 0.4 5.2 | 2 0.6 5.3 | .. ..     | 2 0.6 4.6 | 2 0.6 4.9 | 2 0.6 4.6 | .. ..     | 2 0.7 4.6 | 2 0.6 4.3 | 2 0.6 5.0 | 15            |
| 16            | 2 0.4 5.2 | 2 0.4 5.1 | 2 0.5 4.7 | 2 0.5 4.5 | 2 0.5 4.9 | 2 0.6 5.6 | 2 0.6 5.4 | 2 0.6 5.2 | 2 0.6 5.8 | 2 0.7 5.2 | 2 0.7 4.8 | 2 0.8 5.0 | 16            |
| 17            | 2 0.4 4.3 | 2 0.5 4.9 | 2 0.5 4.5 | 2 0.4 5.0 | 2 0.5 5.3 | 2 0.4 5.1 | 2 0.4 5.1 | 2 0.4 5.1 | 2 0.6 5.3 | 2 0.6 4.8 | 2 0.6 5.4 | 2 0.6 5.0 | 17            |
| 18            | 2 0.3 5.2 | 2 0.2 5.2 | 2 0.3 4.8 | 2 0.5 4.2 | 2 0.5 5.0 | 2 0.5 5.1 | 2 0.6 5.2 | 2 0.6 5.0 | 2 0.6 5.2 | 2 0.6 5.0 | 2 0.6 4.6 | 2 0.6 4.4 | 18            |
| 19            | 2 0.4 4.6 | 2 0.4 4.4 | .. ..     | 2 0.4 4.5 | 2 0.6 5.3 | 2 0.7 5.1 | .. ..     | 2 0.7 4.6 | 2 0.7 4.6 | 2 0.7 4.4 | .. ..     | 2 0.6 4.6 | 19            |
| 20            | 2 0.5 4.1 | 2 0.5 4.5 | 2 0.6 4.7 | 2 0.5 4.6 | 2 0.8 5.0 | 2 0.5 4.5 | 2 0.6 4.7 | 2 0.6 4.9 | 2 0.6 4.3 | 2 0.6 4.8 | 2 0.7 4.7 | 2 0.6 4.4 | 20            |
| 21            | 2 0.5 5.0 | 2 0.4 5.0 | 2 0.5 4.9 | 2 0.5 4.4 | 2 0.5 5.0 | 2 0.6 5.1 | 2 0.6 5.4 | 2 0.6 5.1 | 2 0.6 5.2 | 2 0.6 4.9 | 2 0.6 5.1 | 2 0.6 4.8 | 21            |
| 22            | 2 0.4 4.9 | 2 0.4 5.0 | 2 0.6 5.0 | .. ..     | 2 0.6 5.1 | 2 0.7 5.3 | 2 0.6 5.3 | .. ..     | 2 0.7 4.9 | 2 0.7 5.2 | 2 0.8 5.0 | .. ..     | 22            |
| 23            | 2 0.8 5.3 | 2 0.6 5.3 | 2 0.8 5.7 | 2 1.0 5.4 | 2 0.6 5.3 | 2 0.9 5.7 | 2 0.9 5.2 | 2 1.0 5.3 | 2 0.8 5.2 | 2 0.9 5.6 | 2 0.9 4.9 | 2 1.1 5.2 | 23            |
| 24            | 2 1.0 5.4 | 2 1.0 5.1 | 2 0.8 4.8 | 2 0.9 4.7 | 2 1.0 5.0 | 2 1.0 5.4 | 2 0.8 5.1 | 2 1.0 5.3 | 2 1.2 5.5 | 2 1.5 5.1 | 2 1.0 5.2 | 2 1.0 5.1 | 24            |
| 25            | 2 0.7 4.7 | 2 0.6 5.0 | 2 0.6 4.9 | 2 0.6 5.0 | 2 0.9 5.7 | 2 0.8 5.5 | 2 0.6 5.0 | 2 0.7 5.0 | 2 0.8 5.1 | 2 0.9 5.2 | 2 0.7 4.8 | 2 0.6 5.1 | 25            |
| 26            | 2 0.9 4.8 | 2 0.8 4.6 | 2 1.3 3.9 | 2 0.7 4.3 | 2 0.6 4.8 | 2 0.5 4.9 | 2 0.9 4.6 | 2 0.7 4.3 | 2 0.6 5.2 | 2 0.8 4.6 | 2 1.0 4.5 | 2 1.0 4.2 | 26            |
| 27            | 2 0.6 4.0 | 2 0.5 4.6 | 2 0.5 4.4 | 2 0.6 4.6 | 2 0.6 4.2 | 2 0.6 4.4 | 2 0.6 4.5 | 2 0.6 4.3 | 2 0.8 4.2 | 2 0.6 4.4 | .. ..     | .. ..     | 27            |
| 28            | 2 0.8 4.5 | 2 0.5 4.6 | 2 0.5 4.7 | 2 0.5 4.6 | 2 0.5 4.6 | 2 0.5 4.6 | 2 0.8 4.8 | 2 0.6 5.1 | .. ..     | .. ..     | 2 0.6 5.2 | 2 0.6 5.1 | 28            |



Microseisms. København

| 1957 | March | Z              |                |                 |                 | N              |                |                 |                 | E              |                |                 |                 | March          |                |                 |                 | 1957 |  |  |
|------|-------|----------------|----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|------|--|--|
|      |       | 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> | 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> |      |  |  |
| 1    |       | 2 1.0 5.2      | 2 0.9 5.2      | 2 1.0 5.1       | 2 1.0 4.4       | 2 0.9 4.8      | 2 1.0 5.4      | 2 1.1 5.5       | 2 1.0 4.8       | 2 0.7 4.8      | 2 0.9 5.1      | 2 1.0 5.2       | 2 0.8 5.1       | 2 0.7 4.8      | 2 0.9 5.1      | 2 1.0 5.2       | 2 0.8 5.1       | 1    |  |  |
| 2    |       | 2 0.9 4.8      | 2 0.8 4.7      | 2 1.0 5.0       | 2 1.0 4.3       | 2 1.1 4.8      | 2 1.0 4.7      | 2 1.0 4.8       | 2 0.9 4.9       | 2 1.0 5.0      | 2 1.1 5.0      | 2 1.0 4.9       | 2 0.9 4.6       | 2 1.0 5.0      | 2 1.1 5.0      | 2 0.9 4.6       | 2 0.9 4.6       | 2    |  |  |
| 3    |       | 2 1.0 5.1      | 2 1.0 5.1      | 2 1.0 5.4       | 2 0.7 5.4       | 2 0.8 4.7      | 2 0.9 4.7      | 2 1.0 5.3       | 2 1.0 5.6       | 2 1.0 5.1      | 2 1.0 4.8      | 2 1.0 5.3       | 2 1.2 5.2       | 2 1.0 5.1      | 2 1.0 4.8      | 2 1.3 4.9       | 2 1.2 5.2       | 3    |  |  |
| 4    |       | 2 0.9 5.5      | 2 1.5 5.4      | 2 1.4 5.8       | 2 1.0 5.6       | 2 1.2 5.1      | 2 1.5 5.4      | 2 1.4 5.8       | 2 1.4 5.2       | 2 1.0 5.3      | 2 1.5 5.4      | 2 1.4 5.8       | 2 1.4 5.2       | 2 1.0 5.3      | 2 1.1 4.9      | 2 1.1 5.7       | 2 1.1 5.4       | 4    |  |  |
| 5    |       | 2 0.8 5.3      | 2 0.7 5.2      | 2 0.5 4.5       | 2 0.6 4.3       | 2 1.0 5.5      | 2 0.9 4.8      | 2 0.6 5.1       | 2 0.6 4.5       | 2 1.0 5.1      | 2 0.9 4.8      | 2 0.6 5.1       | 2 0.6 4.5       | 2 1.0 5.1      | 2 0.6 4.8      | 2 0.7 4.6       | 2 0.6 4.4       | 5    |  |  |
| 6    |       | 2 0.5 4.3      | ..             | 2 0.9 4.8       | 2 1.0 5.0       | 2 0.6 4.4      | 2 0.6 4.6      | 2 0.9 4.5       | 2 1.6 5.0       | 2 0.6 4.5      | 2 0.6 4.6      | 2 0.9 4.5       | 2 1.6 5.0       | 2 0.6 4.5      | 2 0.6 4.7      | 2 1.4 5.1       | 2 1.3 4.7       | 6    |  |  |
| 7    |       | 2 1.2 5.1      | 2 1.3 5.0      | 2 0.9 5.0       | 2 1.4 5.3       | 2 1.7 4.9      | 2 2.0 5.2      | 2 1.7 5.2       | 2 1.8 5.2       | 2 1.2 4.9      | 2 2.0 5.2      | 2 1.7 5.2       | 2 1.8 5.2       | 2 1.2 4.9      | 2 1.7 4.9      | 2 1.5 5.2       | 2 1.7 4.8       | 7    |  |  |
| 8    |       | 2 1.0 5.0      | 2 1.1 4.8      | 2 0.8 5.0       | 2 0.6 4.8       | 2 1.4 5.3      | 2 0.9 4.8      | 2 0.9 4.7       | 2 0.7 4.8       | 2 1.6 4.6      | 2 1.1 4.8      | 2 0.9 4.9       | 2 0.7 5.3       | 2 1.6 4.6      | 2 1.1 4.8      | 2 0.9 4.9       | 2 0.7 5.3       | 8    |  |  |
| 9    |       | ..             | 2 0.7 4.5      | 2 1.3 4.8       | ..              | ..             | 2 0.9 5.1      | 2 1.0 4.9       | ..              | ..             | 2 0.9 5.1      | 2 1.0 4.9       | ..              | ..             | 2 1.0 5.3      | 2 1.6 5.0       | ..              | 9    |  |  |
| 10   |       | ..             | ..             | ..              | ..              | ..             | ..             | ..              | ..              | ..             | ..             | ..              | ..              | ..             | ..             | ..              | ..              | 10   |  |  |
| 11   |       | 2 1.3 5.3      | ..             | ..              | ..              | 2 1.5 4.6      | ..             | ..              | 2 0.9 5.4       | 2 1.6 5.3      | ..             | ..              | 2 0.9 5.4       | 2 1.6 5.3      | ..             | ..              | ..              | 11   |  |  |
| 12   |       | 2 0.9 5.1      | 2 0.6 5.3      | ..              | 2 0.6 4.7       | 2 1.3 4.9      | 2 0.9 5.2      | ..              | 2 0.7 4.7       | 2 1.1 4.7      | 2 0.9 5.1      | ..              | 2 0.7 4.7       | 2 1.1 4.7      | 2 0.9 5.1      | ..              | 2 0.9 4.8       | 12   |  |  |
| 13   |       | 2 0.6 5.2      | 2 0.5 4.8      | 2 0.5 4.6       | 2 0.6 4.2       | 2 0.6 4.9      | 2 0.9 4.9      | 2 0.5 4.6       | 2 0.6 4.2       | 2 0.7 5.0      | 2 0.8 4.9      | 2 0.5 4.6       | 2 0.6 4.2       | 2 0.7 5.0      | 2 0.8 4.9      | 2 0.6 4.8       | 2 0.6 4.3       | 13   |  |  |
| 14   |       | 2 0.4 4.5      | 2 0.3 4.5      | 2 0.8 4.2       | ..              | 2 0.5 4.2      | 2 0.4 4.5      | ..              | ..              | 2 0.6 4.3      | 2 0.4 4.5      | ..              | ..              | 2 0.6 4.3      | 2 0.4 4.5      | 2 0.7 4.4       | ..              | 14   |  |  |
| 15   |       | ..             | ..             | 2 0.5 4.1       | 2 0.3 4.3       | 2 0.7 4.0      | 2 0.7 4.1      | 2 0.5 4.5       | 2 0.5 4.8       | 2 0.7 4.2      | 2 0.6 4.0      | 2 0.5 4.5       | 2 0.5 4.8       | 2 0.7 4.2      | 2 0.6 4.0      | 2 0.6 4.5       | 2 0.6 4.8       | 15   |  |  |
| 16   |       | 2 0.3 4.8      | ..             | 2 0.7 4.5       | 2 1.2 4.5       | 2 0.5 4.8      | ..             | 2 0.6 4.3       | 2 1.2 4.2       | 2 0.6 4.7      | ..             | 2 0.6 4.0       | 2 1.2 4.2       | 2 0.6 4.7      | ..             | 2 0.6 4.0       | 2 1.4 4.6       | 16   |  |  |
| 17   |       | ..             | ..             | 3 1.0 4.0       | 2 1.3 4.0       | 2 0.9 4.8      | 3 0.7 4.6      | 3 0.9 4.7       | 3 0.9 4.0       | 2 1.2 4.8      | 3 1.1 4.5      | 3 1.0 4.0       | 3 0.9 4.0       | 2 1.2 4.8      | 3 1.1 4.5      | 3 1.0 4.0       | 3 0.8 3.9       | 17   |  |  |
| 18   |       | ..             | 1 2.0 3.8      | 1 1.3 3.7       | 1 1.0 3.7       | ..             | ..             | 1 1.1 3.6       | 2 0.8 3.8       | ..             | ..             | 1 1.1 3.6       | 2 0.8 3.8       | ..             | ..             | 2 1.0 3.6       | 2 0.6 3.9       | 18   |  |  |
| 19   |       | 2 0.6 3.4      | 2 0.3 3.8      | ..              | 2 0.7 4.1       | 2 0.5 4.0      | 2 0.5 4.0      | ..              | 2 0.5 4.3       | 2 0.7 4.0      | 2 0.6 3.8      | ..              | 2 0.5 4.3       | 2 0.7 4.0      | 2 0.6 3.8      | 1 1.4 3.9       | 1 3.3 4.0       | 19   |  |  |
| 20   |       | 2 0.5 4.4      | 2 1.1 3.9      | 1 2.2 3.8       | 1 4.0 3.9       | 2 0.8 4.1      | 2 0.9 3.9      | 1 2.0 3.6       | 1 3.9 3.8       | 2 0.6 3.8      | 2 1.2 4.1      | 1 1.4 3.9       | 1 3.9 3.8       | 2 0.6 3.8      | 2 1.2 4.1      | 2 1.3 4.3       | 2 1.2 4.3       | 20   |  |  |
| 21   |       | 1 1.7 3.8      | 2 1.5 4.1      | 2 1.0 4.2       | 2 0.7 4.4       | 1 1.7 3.7      | 2 1.3 3.9      | 2 1.0 4.4       | 2 0.9 4.4       | 1 2.5 4.0      | 2 1.7 4.1      | 2 1.3 4.1       | 2 0.9 4.4       | 1 2.5 4.0      | 2 1.7 4.1      | 2 1.4 5.1       | ..              | 21   |  |  |
| 22   |       | 2 1.0 4.6      | 2 1.0 4.5      | 2 0.9 4.8       | ..              | 2 1.0 4.4      | 2 1.0 4.7      | 2 1.0 4.7       | ..              | 2 1.0 4.6      | 2 1.5 4.5      | 2 1.4 5.1       | ..              | 2 1.0 4.6      | 2 1.5 4.5      | 2 1.4 5.1       | ..              | 22   |  |  |
| 23   |       | 2 0.6 4.9      | ..             | 2 0.5 4.7       | 2 0.6 4.8       | 2 0.7 4.9      | ..             | 2 0.5 4.7       | 2 0.7 4.5       | 2 0.8 5.3      | ..             | 2 0.8 4.7       | 2 0.7 4.5       | 2 0.8 5.3      | ..             | 2 0.8 4.7       | 2 1.0 4.6       | 23   |  |  |
| 24   |       | 2 0.7 4.3      | 2 0.9 4.4      | ..              | 3 1.0 5.0       | 2 0.8 4.9      | 2 0.9 4.4      | ..              | 3 2.0 5.0       | 2 1.0 4.8      | 2 1.0 4.8      | ..              | 3 2.0 5.0       | 2 1.0 4.8      | 2 1.0 4.5      | ..              | 3 1.7 5.0       | 24   |  |  |
| 25   |       | 3 1.2 5.0      | 3 1.0 5.0      | 2 0.7 4.0       | 2 0.5 4.4       | 3 1.2 5.0      | 3 1.0 5.0      | 2 0.9 4.6       | 2 1.0 5.1       | 3 1.2 5.0      | 3 1.0 5.3      | 2 1.1 4.8       | 2 1.0 5.1       | 3 1.2 5.0      | 3 1.0 5.3      | 2 1.1 4.8       | 2 0.9 5.2       | 25   |  |  |
| 26   |       | 2 0.6 4.9      | 2 0.5 5.0      | ..              | ..              | 2 0.9 5.2      | 2 0.8 4.5      | 2 0.8 5.0       | 2 1.0 5.0       | 2 0.7 5.0      | 2 1.0 4.8      | 2 0.9 4.6       | 2 1.0 5.0       | 2 0.7 5.0      | 2 1.0 4.8      | 2 0.9 4.7       | 2 0.8 5.1       | 26   |  |  |
| 27   |       | ..             | ..             | ..              | ..              | 2 0.8 4.8      | 2 0.7 4.4      | 2 0.7 4.6       | 2 0.6 4.1       | 2 1.0 4.9      | 2 0.8 5.0      | 2 0.9 4.6       | 2 0.6 4.1       | 2 1.0 4.9      | 2 0.8 5.0      | 2 0.9 4.6       | 2 0.8 4.5       | 27   |  |  |
| 28   |       | ..             | ..             | ..              | ..              | 2 0.8 4.3      | 3 0.9 4.0      | 2 0.8 5.1       | 2 1.5 4.7       | 2 0.8 4.6      | 3 0.8 4.0      | 2 1.2 4.9       | 2 1.3 4.8       | 2 0.8 4.6      | 3 0.8 4.0      | 2 1.2 4.9       | 2 1.3 4.8       | 28   |  |  |
| 29   |       | ..             | ..             | ..              | ..              | 2 1.0 5.2      | ..             | 2 0.5 4.8       | 2 0.7 4.8       | 2 0.9 5.0      | ..             | 2 0.6 4.4       | 2 1.0 4.6       | 2 0.9 5.0      | ..             | 2 0.6 4.4       | 2 1.0 4.6       | 29   |  |  |
| 30   |       | ..             | ..             | ..              | ..              | 1 1.9 5.0      | 1 1.6 4.9      | ..              | ..              | 1 2.3 4.9      | 1 2.0 5.2      | 1 1.0 5.1       | 2 1.0 5.0       | 1 2.3 4.9      | 1 2.0 5.2      | 1 1.0 5.1       | 2 1.0 5.0       | 30   |  |  |
| 31   |       | ..             | ..             | ..              | 2 0.7 4.2       | ..             | ..             | 2 0.8 4.4       | 1 1.1 4.8       | 2 0.8 4.7      | 2 1.0 5.0      | 2 0.6 4.4       | 1 1.0 4.4       | 2 0.8 4.7      | 2 1.0 5.0      | 2 0.6 4.4       | 1 1.0 4.4       | 31   |  |  |







Microseisms. København

| 1957<br>May | Z         |           |           |           | N         |           |           |           | E         |           |           |           | 1957<br>May |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
|             | 0h        | 6h        | 12h       | 18h       | 0h        | 6h        | 12h       | 18h       | 0h        | 6h        | 12h       | 18h       |             |
| 1           | 2 0.3 3.2 | 2 0.2 3.2 | 2 0.3 3.6 | 2 0.2 3.4 | 2 0.2 3.8 | 2 0.2 3.5 | 2 0.4 3.3 | 2 0.3 3.4 | 2 0.3 2.8 | 2 0.4 2.4 | 2 0.5 2.9 | 2 0.3 3.6 | 1           |
| 2           | 2 0.3 3.3 | 2 0.2 3.9 | .. ..     | 2 0.6 5.0 | 2 0.3 3.7 | 2 0.4 3.9 | .. ..     | 2 0.9 5.0 | 2 0.4 3.6 | 2 0.5 4.4 | .. ..     | .. ..     | 2           |
| 3           | 2 0.5 4.8 | 2 0.6 4.8 | 2 0.5 4.4 | 3 0.5 4.1 | 2 1.1 5.6 | 2 1.0 4.4 | 2 0.7 4.5 | 3 0.6 4.1 | .. ..     | .. ..     | 2 0.6 4.4 | 3 0.7 4.0 | 3           |
| 4           | 3 0.6 3.8 | 3 0.8 4.0 | .. ..     | .. ..     | 3 0.7 4.1 | 3 0.7 3.3 | 3 0.8 4.2 | 3 0.6 3.8 | 3 0.8 3.5 | 3 1.0 3.4 | 3 0.7 3.6 | 3 0.6 3.8 | 4           |
| 5           | .. ..     | .. ..     | .. ..     | 2 0.4 4.1 | 3 0.5 4.0 | 3 0.3 4.7 | 3 0.5 4.0 | 2 0.5 4.0 | 3 0.7 3.8 | 3 0.7 3.8 | 3 0.5 4.5 | 2 0.5 4.5 | 5           |
| 6           | 2 0.4 3.7 | 2 0.4 3.6 | 2 0.3 4.5 | 2 0.3 4.3 | 2 0.5 3.7 | 2 0.6 3.4 | 2 0.5 4.5 | 2 0.4 4.2 | 2 0.6 4.1 | 2 0.6 3.9 | 2 0.5 4.6 | 2 0.6 5.1 | 6           |
| 7           | 2 0.2 4.8 | 2 0.2 4.2 | 2 0.2 4.3 | 2 0.1 3.6 | 2 0.3 4.5 | 2 0.2 4.6 | 2 0.3 2.9 | 2 0.2 4.5 | 2 0.4 4.5 | 2 0.5 3.8 | 2 0.3 3.9 | 2 0.4 3.8 | 7           |
| 8           | 2 0.2 4.0 | 2 0.1 3.7 | 2 0.2 4.- | 2 0.2 4.4 | 2 0.2 4.5 | 2 0.2 4.4 | 2 0.4 4.0 | 2 0.3 3.6 | 2 0.4 4.1 | 2 0.4 3.8 | 2 0.4 3.7 | 2 0.3 3.9 | 8           |
| 9           | 2 0.1 4.- | 2 0.1 4.2 | 2 0.1 5.- | 2 0.1 4.4 | 2 0.4 3.9 | 2 0.3 4.0 | 2 0.3 4.1 | 2 0.4 3.8 | 2 0.4 3.5 | 2 0.3 3.3 | 2 0.3 3.5 | 2 0.3 4.2 | 9           |
| 10          | 2 0.1 4.0 | 2 0.2 3.6 | 2 0.2 4.5 | 2 0.3 3.8 | 2 0.5 4.2 | 2 0.5 3.5 | 2 0.7 3.6 | 2 0.8 3.2 | 2 0.3 4.5 | 2 0.3 3.4 | 2 0.4 3.7 | 2 0.5 4.0 | 10          |
| 11          | 2 0.3 4.5 | 2 0.3 4.7 | 2 0.2 4.2 | 2 0.3 4.0 | 2 0.7 3.6 | 2 0.6 4.5 | 2 0.5 3.8 | 2 0.4 3.4 | 2 0.4 4.4 | 2 0.5 4.2 | 2 0.5 4.1 | 2 0.4 3.6 | 11          |
| 12          | 2 0.2 4.4 | .. ..     | .. ..     | 2 0.1 4.1 | 2 0.3 3.9 | .. ..     | .. ..     | 2 0.2 3.- | 2 0.2 4.2 | .. ..     | .. ..     | 2 0.2 5.1 | 12          |
| 13          | 2 0.1 4.5 | 2 0.1 4.5 | 2 0.1 4.4 | 2 0.1 4.6 | 2 0.2 3.- | 2 0.2 3.- | 0 0.2 5.0 | 2 0.3 4.- | 2 0.1 4.5 | 2 0.2 4.6 | 2 0.3 4.1 | 2 0.3 3.5 | 13          |
| 14          | 2 0.1 4.7 | 2 0.1 4.0 | 2 0.2 4.5 | 2 0.2 4.5 | 2 0.4 4.8 | 2 0.5 3.7 | 2 0.4 4.5 | 2 0.4 4.1 | 2 0.3 4.0 | 2 0.4 4.0 | 2 0.4 4.0 | 2 0.4 4.0 | 14          |
| 15          | 2 0.2 4.2 | 2 0.1 4.0 | 2 0.2 4.5 | 2 0.2 4.5 | 2 0.4 4.0 | 2 0.4 3.8 | 2 0.3 4.7 | 2 0.4 3.9 | 2 0.4 4.4 | 2 0.4 4.3 | 2 0.4 4.4 | 2 0.4 4.6 | 15          |
| 16          | 2 0.2 4.0 | 2 0.2 3.9 | 2 0.2 4.0 | 2 0.3 3.2 | 2 0.5 3.4 | 2 0.4 3.7 | 2 0.4 3.7 | 2 0.5 2.6 | 2 0.5 3.5 | 2 0.5 3.7 | 2 0.6 4.2 | 2 0.8 2.5 | 16          |
| 17          | 2 0.3 4.1 | 2 0.3 4.5 | 2 0.3 4.3 | 2 0.3 4.5 | 2 0.9 2.7 | 2 0.6 5.1 | 2 0.6 5.0 | 2 0.7 4.4 | 2 0.5 3.4 | 2 0.6 3.6 | 2 0.6 5.2 | 2 0.6 4.8 | 17          |
| 18          | 2 0.3 4.5 | 2 0.3 4.5 | 2 0.3 4.0 | 2 0.2 4.0 | 2 0.7 4.3 | 2 0.5 4.1 | 2 0.4 3.7 | 2 0.4 4.1 | 2 0.6 4.5 | 2 0.6 3.9 | 2 0.7 4.0 | 2 0.5 4.0 | 18          |
| 19          | 2 0.3 3.6 | 2 0.4 4.0 | 2 0.3 4.3 | 2 0.3 4.5 | 2 0.5 3.8 | 2 0.6 3.8 | 2 0.7 3.7 | 2 0.7 3.9 | 2 0.5 4.0 | 2 0.5 4.2 | 2 0.5 4.2 | 2 0.5 4.2 | 19          |
| 20          | 2 0.2 4.2 | 2 0.2 4.0 | 2 0.3 4.0 | 2 0.4 3.8 | 2 0.4 4.0 | 2 0.6 3.9 | 2 0.5 3.5 | 2 0.6 3.4 | 2 0.5 3.9 | 2 0.4 3.8 | 2 0.7 3.7 | 2 0.6 4.0 | 20          |
| 21          | 2 0.4 3.7 | 2 0.2 4.0 | .. ..     | 2 0.3 3.3 | 2 0.6 3.5 | 2 0.6 3.7 | .. ..     | 2 0.7 3.6 | 2 0.6 3.6 | 2 0.5 3.7 | .. ..     | 2 0.5 3.8 | 21          |
| 22          | 2 0.3 3.6 | 2 0.2 3.8 | 2 0.3 4.2 | 2 0.1 3.7 | 2 0.8 3.4 | 2 0.6 3.7 | 2 0.5 3.5 | 2 0.5 3.2 | 2 0.5 4.3 | 2 0.7 3.3 | 2 0.4 3.8 | 2 0.4 3.5 | 22          |
| 23          | 2 0.1 3.9 | 2 0.1 3.9 | 2 0.3 3.8 | 2 0.3 3.2 | 2 0.6 4.1 | 2 0.5 3.4 | 2 0.5 3.4 | 2 0.3 3.- | 2 0.4 4.0 | 2 0.5 3.5 | 2 0.4 3.0 | 2 0.4 3.6 | 23          |
| 24          | 2 0.3 3.5 | 2 0.4 2.8 | 2 0.1 3.3 | 2 0.1 3.3 | 2 0.5 3.5 | 2 0.6 3.0 | 2 0.6 3.4 | 2 0.6 2.9 | 2 0.4 3.1 | 2 0.5 3.2 | 2 0.6 3.1 | 2 0.6 3.0 | 24          |
| 25          | 2 0.1 3.9 | 2 0.1 3.8 | 2 0.1 4.- | 2 0.1 3.9 | 2 0.5 3.2 | 2 0.5 3.5 | 2 0.3 3.9 | 2 0.4 3.5 | 2 0.5 3.0 | 2 0.4 3.5 | 2 0.4 3.8 | 2 0.4 3.6 | 25          |
| 26          | 2 0.1 3.0 | 2 0.1 4.4 | 2 0.1 4.5 | 2 0.1 4.0 | 2 0.4 2.5 | 2 0.2 3.5 | 2 0.3 4.- | 2 0.4 4.7 | 2 0.3 2.5 | 2 0.3 4.0 | 2 0.4 4.5 | 2 0.4 3.9 | 26          |
| 27          | 2 0.2 5.0 | 2 0.2 4.8 | 2 0.1 4.6 | 2 0.1 4.7 | 2 0.4 4.5 | 2 0.5 5.- | 2 0.3 4.- | 2 0.3 5.- | 2 0.3 4.6 | 2 0.3 4.4 | 2 0.3 4.5 | 2 0.3 4.1 | 27          |
| 28          | 2 0.2 4.4 | 2 0.2 4.5 | 2 0.2 4.6 | 2 0.3 4.4 | 2 0.3 4.0 | 2 0.4 4.8 | 2 0.5 4.5 | 2 0.5 4.5 | 2 0.3 4.1 | 2 0.5 3.9 | 2 0.5 3.9 | 2 0.6 3.6 | 28          |
| 29          | 2 0.2 4.4 | 2 0.2 4.5 | 2 0.6 4.7 | 2 0.5 4.7 | 2 0.4 4.1 | 2 0.5 4.7 | 2 0.6 4.9 | 2 0.6 4.7 | 2 0.4 3.3 | 2 0.4 4.5 | 2 0.4 4.5 | 2 0.5 4.5 | 29          |
| 30          | 2 0.6 4.2 | 2 0.5 4.8 | .. ..     | .. ..     | 2 0.6 4.5 | 2 0.6 4.3 | .. ..     | .. ..     | 2 0.4 4.3 | 2 0.4 4.5 | 2 0.5 3.6 | 2 0.5 3.5 | 30          |
| 31          | .. ..     | .. ..     | 2 0.4 3.5 | 2 0.2 3.5 | .. ..     | .. ..     | 2 0.8 3.2 | 2 0.8 3.2 | 2 0.6 3.8 | 2 0.6 3.8 | 2 0.6 3.5 | 2 0.6 3.5 | 31          |



Microseisms. København

| 1957 | June | Z         |           |           |           |           |           | N         |           |           |           |           |           | E         |           |           |           |           |    | 1957 | June |
|------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|------|------|
|      |      | 0h        | 6h        | 12h       | 18h       | 0h        | 6h        | 12h       | 18h       | 0h        | 6h        | 12h       | 18h       | 0h        | 6h        | 12h       | 18h       |           |    |      |      |
| 1    |      | 2 0.3 3.2 | 2 0.3 3.3 | 2 0.4 3.5 | 2 0.4 3.5 | 2 0.7 3.0 | 2 0.7 3.1 | 2 0.8 3.3 | 2 0.8 3.5 | 2 0.7 3.0 | 2 0.7 3.0 | 2 0.7 3.0 | 2 0.6 3.6 | 2 0.7 3.0 | 2 0.7 3.0 | 2 0.7 3.0 | 2 0.6 3.6 | 2 0.6 3.6 | 1  |      |      |
| 2    |      | 2 0.3 3.5 | 2 0.2 3.5 | .. ..     | 2 0.3 3.7 | 2 0.7 3.6 | 2 0.6 3.4 | .. ..     | .. ..     | 2 0.6 3.6 | 2 0.6 3.6 | 2 0.7 3.2 | 2 0.4 3.4 | 2 0.6 3.6 | 2 0.7 3.2 | 2 0.7 3.2 | 2 0.4 3.4 | 2 0.4 3.4 | 2  |      |      |
| 3    |      | 2 0.4 3.7 | 2 0.8 4.7 | 2 0.6 4.0 | 2 0.5 3.6 | .. ..     | .. ..     | 2 1.1 3.9 | 2 0.7 4.2 | 2 0.5 3.6 | .. ..     | 2 1.1 4.6 | 2 0.4 4.2 | 2 0.5 3.6 | 2 0.6 4.3 | 2 0.6 4.3 | 2 0.6 3.5 | 2 0.6 3.5 | 3  |      |      |
| 4    |      | 2 0.3 3.4 | 2 0.2 3.6 | 2 0.2 3.6 | 2 0.1 3.6 | 2 0.6 4.2 | 2 0.4 3.5 | 2 0.7 3.8 | 2 0.6 3.5 | 2 0.4 3.5 | 2 0.4 3.5 | 2 0.4 3.9 | 2 0.4 3.4 | 2 0.6 3.6 | 2 0.4 3.9 | 2 0.5 3.6 | 2 0.4 4.2 | 2 0.4 4.2 | 4  |      |      |
| 5    |      | 2 0.1 3.0 | 2 0.1 3.- | 2 0.3 3.3 | 2 0.3 3.4 | 2 0.4 3.5 | 2 0.8 3.0 | 2 0.9 2.9 | 2 0.6 3.7 | 2 0.3 3.4 | 2 0.3 3.4 | 2 0.4 3.2 | 2 0.4 3.4 | 2 0.3 3.4 | 2 0.4 3.2 | 2 0.2 3.2 | 2 0.4 3.3 | 2 0.4 3.3 | 5  |      |      |
| 6    |      | 2 0.3 3.3 | 2 0.4 2.9 | 2 0.3 2.9 | 2 0.4 2.7 | 2 0.5 3.4 | 2 0.7 3.7 | 2 0.8 3.3 | 2 0.6 3.7 | 2 0.4 3.0 | 2 0.4 3.0 | 2 0.5 3.0 | 2 0.4 3.0 | 2 0.4 3.0 | 2 0.5 3.0 | 2 0.7 3.1 | 2 0.7 3.0 | 2 0.7 3.0 | 6  |      |      |
| 7    |      | 2 0.4 3.1 | 2 0.3 3.3 | 2 0.7 2.6 | 2 0.3 3.0 | 2 0.7 3.4 | 2 0.7 3.7 | 2 0.6 3.6 | 2 0.8 2.7 | 2 0.8 2.6 | 2 0.8 2.6 | 2 0.5 2.9 | 2 0.6 3.7 | 2 0.8 2.6 | 2 0.5 2.9 | 2 0.8 3.1 | 2 0.7 3.3 | 2 0.7 3.3 | 7  |      |      |
| 8    |      | 2 0.3 3.1 | 2 0.3 3.4 | 2 0.3 3.5 | 2 0.2 3.5 | 2 0.8 3.3 | 2 0.7 2.9 | 2 0.6 3.6 | 2 0.6 3.7 | 2 0.8 3.1 | 2 0.8 3.1 | 2 0.6 3.5 | 2 0.6 3.7 | 2 0.6 3.3 | 2 0.6 3.5 | 2 0.6 3.8 | 2 0.6 3.7 | 2 0.6 3.7 | 8  |      |      |
| 9    |      | 2 0.3 3.5 | 2 0.3 3.5 | 2 0.3 3.7 | 2 0.4 3.9 | 2 0.7 3.2 | 2 0.7 3.7 | 2 0.8 4.0 | 2 0.8 3.4 | 2 0.6 3.3 | 2 0.6 3.3 | 2 0.7 3.3 | 2 0.5 3.8 | 2 0.6 3.3 | 2 0.7 3.3 | 2 0.7 3.3 | 2 0.6 3.9 | 2 0.6 3.9 | 9  |      |      |
| 10   |      | 2 0.2 4.1 | 2 0.3 3.6 | 2 0.3 3.5 | 2 0.3 3.5 | 2 0.6 3.6 | 2 0.5 4.2 | 2 0.6 4.1 | 2 0.5 3.7 | 2 0.5 3.2 | 2 0.5 3.2 | 2 0.4 3.6 | 2 0.5 3.8 | 2 0.5 3.2 | 2 0.5 3.9 | 2 0.4 3.7 | 2 0.4 3.6 | 2 0.4 3.6 | 10 |      |      |
| 11   |      | 2 0.2 3.7 | 2 0.3 4.0 | 2 0.3 3.7 | 2 0.2 3.6 | 2 0.6 3.2 | 2 0.6 3.7 | 2 0.7 3.3 | 2 0.7 3.1 | 2 0.5 3.2 | 2 0.5 3.2 | 2 0.6 3.0 | 2 0.7 3.1 | 2 0.5 3.2 | 2 0.4 3.6 | 2 0.6 3.0 | 2 0.6 3.0 | 2 0.6 3.0 | 11 |      |      |
| 12   |      | 2 0.4 2.0 | 2 0.4 2.2 | 2 0.4 4.0 | 2 0.5 3.2 | 2 0.8 2.4 | 2 0.7 2.9 | 2 1.0 3.0 | 2 0.8 3.1 | 2 0.6 2.5 | 2 0.6 2.5 | 2 0.7 2.5 | 2 0.6 3.5 | 2 0.6 2.5 | 2 0.7 2.5 | 2 0.7 3.2 | 2 0.6 3.5 | 2 0.6 3.5 | 12 |      |      |
| 13   |      | 2 0.3 3.2 | 2 0.5 3.2 | .. ..     | 2 0.8 3.7 | 2 0.9 2.7 | 2 0.8 3.1 | .. ..     | 2 0.8 4.1 | 2 0.7 2.6 | 2 0.7 2.6 | 2 0.7 3.2 | .. ..     | 2 0.7 2.6 | 2 0.7 3.2 | .. ..     | 2 0.7 3.8 | 2 0.7 3.8 | 13 |      |      |
| 14   |      | 2 0.4 3.9 | 2 0.3 4.2 | 2 0.5 4.5 | 2 0.5 4.8 | 2 0.7 3.7 | 2 0.9 3.9 | 2 0.6 4.3 | 2 0.8 4.3 | 2 0.5 3.8 | 2 0.5 3.8 | 2 0.7 3.4 | 2 0.5 4.0 | 2 0.5 3.8 | 2 0.7 3.4 | 2 0.5 4.0 | 2 0.5 4.0 | 2 0.5 4.0 | 14 |      |      |
| 15   |      | 2 0.5 4.9 | 2 0.5 4.5 | 2 0.4 4.3 | 2 0.3 4.5 | 2 0.6 4.2 | 2 0.6 4.1 | 2 0.5 4.4 | 2 0.5 4.0 | 2 0.6 4.7 | 2 0.6 4.7 | 2 0.6 4.7 | 2 0.5 4.2 | 2 0.6 4.7 | 2 0.6 4.7 | 2 0.5 4.2 | 2 0.5 4.2 | 2 0.5 4.2 | 15 |      |      |
| 16   |      | 2 0.3 4.6 | 2 0.3 4.7 | 2 0.2 4.1 | 2 0.2 4.3 | 2 0.6 4.2 | 2 0.4 4.4 | 2 0.5 4.3 | 2 0.4 4.3 | 2 0.5 4.6 | 2 0.5 4.6 | 2 0.5 4.6 | 2 0.4 4.3 | 2 0.5 4.6 | 2 0.5 4.6 | 2 0.4 4.5 | 2 0.4 4.3 | 2 0.4 4.3 | 16 |      |      |
| 17   |      | 2 0.1 4.3 | 2 0.2 3.8 | 2 0.3 4.4 | 2 0.4 4.7 | 2 0.4 4.0 | 2 0.4 4.0 | 2 0.5 4.2 | 2 0.7 4.9 | 2 0.3 4.1 | 2 0.3 4.1 | 2 0.7 4.3 | 2 0.5 4.1 | 2 0.3 4.1 | 2 0.7 4.3 | 2 0.5 4.1 | 2 0.6 5.0 | 2 0.6 5.0 | 17 |      |      |
| 18   |      | 2 0.4 5.1 | 2 0.4 4.5 | 2 0.5 4.7 | 2 0.4 4.7 | 2 0.7 4.5 | 2 0.6 5.1 | 2 0.6 4.2 | 2 0.6 3.8 | 2 0.7 4.5 | 2 0.7 4.5 | 2 0.7 4.3 | 2 0.5 4.3 | 2 0.7 4.5 | 2 0.7 4.3 | 2 0.5 4.5 | 2 0.5 4.3 | 2 0.5 4.3 | 18 |      |      |
| 19   |      | 2 0.3 4.5 | 2 0.3 4.3 | 2 0.4 3.9 | 2 0.4 4.0 | 2 0.6 4.2 | 2 0.5 4.6 | 2 0.6 4.1 | 2 0.6 4.3 | 2 0.5 4.1 | 2 0.5 4.1 | 2 0.5 4.1 | 2 0.6 4.0 | 2 0.5 4.1 | 2 0.5 4.1 | 2 0.5 4.5 | 2 0.5 4.0 | 2 0.5 4.0 | 19 |      |      |
| 20   |      | 2 0.3 3.9 | 2 0.4 4.0 | 2 0.5 4.2 | 2 0.3 4.0 | 2 0.5 4.2 | 2 0.5 4.5 | 2 0.7 3.8 | 2 0.6 4.0 | 2 0.6 3.9 | 2 0.6 3.9 | 2 0.5 4.3 | 2 0.4 3.5 | 2 0.6 3.9 | 2 0.5 4.3 | 2 0.5 3.8 | 2 0.4 3.5 | 2 0.4 3.5 | 20 |      |      |
| 21   |      | 2 0.2 4.3 | 2 0.1 4.0 | 2 0.1 4.0 | 2 0.1 3.5 | 2 0.4 4.5 | 2 0.3 3.9 | 2 0.3 3.7 | 2 0.3 3.7 | 2 0.4 4.5 | 2 0.3 3.9 | 2 0.3 3.7 | 2 0.6 4.0 | 2 0.3 3.8 | 2 0.3 3.7 | 2 0.3 3.7 | 2 0.3 3.7 | 2 0.3 3.7 | 21 |      |      |
| 22   |      | 2 0.1 3.7 | 2 0.2 3.5 | 2 0.2 3.0 | 2 0.3 3.5 | .. ..     | 2 0.3 3.7 | 2 0.3 3.3 | 2 0.3 3.5 | 2 0.2 2.7 | 2 0.1 3.5 | 2 0.3 3.2 | 2 0.2 2.7 | 2 0.3 3.8 | 2 0.3 3.7 | 2 0.3 3.2 | 2 0.2 3.6 | 2 0.2 3.6 | 22 |      |      |
| 23   |      | 2 0.1 3.5 | 2 0.1 4.0 | 2 0.1 3.5 | 2 0.1 2.7 | 2 0.2 2.5 | 2 0.3 3.2 | 2 0.4 3.1 | 2 0.1 2.3 | 2 0.1 2.8 | 2 0.1 2.8 | 2 0.2 2.9 | 2 0.2 3.7 | 2 0.1 2.3 | 2 0.2 2.9 | 2 0.2 3.5 | 2 0.2 2.6 | 2 0.2 2.6 | 23 |      |      |
| 24   |      | 2 0.1 2.9 | 2 0.1 2.8 | 2 0.1 3.2 | 2 0.1 3.5 | 2 0.2 2.3 | 2 0.3 2.6 | 2 0.3 3.8 | 2 0.2 3.7 | 2 0.3 2.6 | 2 0.3 2.6 | 2 0.3 3.0 | 2 0.2 3.7 | 2 0.3 3.8 | 2 0.3 3.0 | 2 0.2 3.5 | 2 0.2 3.8 | 2 0.2 3.8 | 24 |      |      |
| 25   |      | 2 0.1 3.7 | 2 0.1 3.7 | 2 0.3 3.3 | 2 0.1 3.7 | 2 0.2 3.3 | 2 0.1 3.4 | 2 0.2 3.5 | 2 0.2 3.5 | 2 0.1 3.3 | 2 0.1 3.3 | 2 0.2 3.5 | 2 0.2 3.4 | 2 0.2 3.5 | 2 0.2 3.5 | 2 0.3 2.8 | 2 0.1 3.4 | 2 0.1 3.4 | 25 |      |      |
| 26   |      | 2 0.2 3.4 | 2 0.1 3.5 | 2 0.1 2.9 | 2 0.2 2.9 | 2 0.3 3.0 | 2 0.2 2.9 | 2 0.1 2.9 | 2 0.2 3.4 | 2 0.2 2.6 | 2 0.2 2.6 | 2 0.2 2.2 | 2 0.2 3.4 | 2 0.2 2.6 | 2 0.2 2.2 | 2 0.2 2.5 | 2 0.2 2.7 | 2 0.2 2.7 | 26 |      |      |
| 27   |      | 2 0.3 3.2 | 2 0.3 3.6 | 2 0.3 2.8 | 2 0.3 3.3 | 2 0.3 3.5 | 2 0.3 3.5 | 2 0.3 3.5 | 2 0.4 3.5 | 2 0.6 3.2 | 2 0.6 3.2 | 2 0.6 3.2 | 2 0.4 3.5 | 2 0.6 3.2 | 2 0.6 3.2 | 2 0.4 3.1 | 2 0.5 3.2 | 2 0.5 3.2 | 27 |      |      |
| 28   |      | 2 0.3 3.6 | 2 0.3 3.1 | 2 0.3 3.0 | 2 0.3 3.5 | 2 0.6 3.7 | 2 0.4 3.4 | 2 0.6 3.4 | 2 0.6 3.5 | 2 0.6 3.5 | 2 0.6 3.5 | 2 0.6 3.4 | 2 0.6 3.5 | 2 0.6 3.5 | 2 0.6 3.4 | 2 0.5 3.4 | 2 0.6 3.3 | 2 0.6 3.3 | 28 |      |      |
| 29   |      | 2 0.2 4.0 | 2 0.1 4.1 | 2 0.1 3.6 | 2 0.1 3.9 | 2 0.4 3.5 | 2 0.5 3.9 | 2 0.4 3.8 | 2 0.3 3.9 | 2 0.4 3.7 | 2 0.5 3.8 | 2 0.4 4.4 | 2 0.3 3.9 | 2 0.4 3.7 | 2 0.5 3.8 | 2 0.4 4.4 | 2 0.3 4.7 | 2 0.3 4.7 | 29 |      |      |
| 30   |      | 2 0.1 4.6 | 2 0.1 4.5 | 2 0.1 4.5 | 2 0.1 4.3 | .. ..     | 2 0.1 3.6 | 2 0.2 4.2 | 2 0.2 4.4 | .. ..     | 2 0.2 3.9 | 2 0.2 3.5 | 2 0.2 4.4 | .. ..     | 2 0.2 3.9 | 2 0.2 3.5 | 2 0.2 3.5 | 2 0.2 3.5 | 30 |      |      |