

Seismischer Bericht 1929,

von H. M o t h e s .

Breite:  $51^{\circ} 33' N$  Länge:  $9^{\circ} 58' E$ 

Höhe über dem Meeresspiegel: 270 m , Untergrund: Muschelkalk.

Instrumente: 1) Astatischer Wiechert-Horizontalseismograph.

Stationäre Masse: 1200 kg.

Komponenten: NS und EW, im Text mit N und E bezeichnet.

Registriergeschwindigkeit: 9 mm/Min.

2) Astatischer Wiechert-Vertikalseismograph.

Stationäre Masse: 1300 kg.

Im Text mit Z bezeichnet.

Registriergeschwindigkeit: 12 mm/Min.

3) Wiechert-Horizontalseismograph, 17t-Pendel.

Stationäre Masse: 17 000 kg.

Komponente: NS, im Text mit  $N_{II}$  bezeichnet.

Registriergeschwindigkeit: 55 mm/Min.

Ablesegenauigkeit mindestens 0,1 mm = 0,1 sec

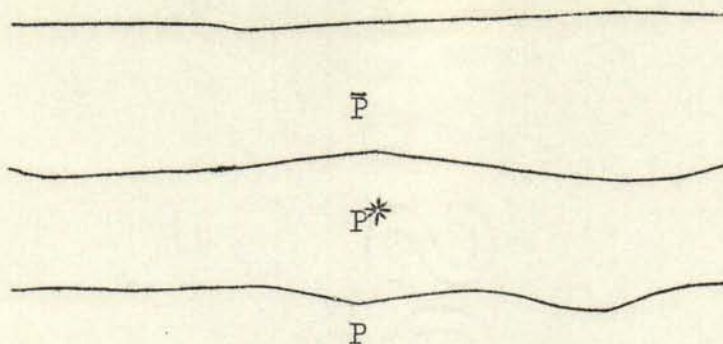
bzw. = 0,04  $\mu$  (bei voller Vergrößerung).

Sämtliche Apparate schreiben in Russ.

## Konstanten:

| Datum          | Apparat  | Eigenperiode<br>ohne<br>Dämpfung | Statische<br>Vergrößerung | Dämpfung | Maximaler<br>Reibungs-<br>ausschlag |
|----------------|----------|----------------------------------|---------------------------|----------|-------------------------------------|
| 3. III<br>1929 | E        | 10,3 sec                         | 197                       | 4,0      | 0,5 mm                              |
|                | N        | 10,6 "                           | 141                       | 2,2      | 1,3 "                               |
|                | Z        | 4,2 "                            | 172                       | 2,7      | 0,2 "                               |
|                | $N_{II}$ | 1,4 "                            | 2500                      | 6,0      | 0,5 "                               |
| 18. V.<br>1929 | E        | 12,4 sec                         | 135                       | 6,5      | 0,8 mm                              |
|                | N        | 10,1 "                           | 136                       | 2,2      | 0,8 "                               |
|                | Z        | 4,2 "                            | 152                       | 4,4      | 0,4 "                               |
|                | $N_{II}$ | 1,4 "                            | 2400                      | 2,8      | 0,8 "                               |
| 30. I.<br>1930 | E        | 12,7 sec                         | 148                       | 5,4      | 1,1 mm                              |
|                | N        | 10,7 "                           | 122                       | 2,3      | 1,0 "                               |
|                | Z        | 4,0 "                            | 186                       | 5,3      | 0,2 "                               |
|                | $N_{II}$ | 1,4 "                            | 2300                      | 4,7      | 1,0 "                               |

## Symbole und Abkürzungen.



- $\bar{P}; P^*; P$  sind Einsätze des I. (longitudinalen) Vorläufers
- $\bar{P}$  verläuft ganz in der obersten  $\bar{P}$  Schicht (nur Nahbeben)
- $P^*$  verläuft ganz in der  $\bar{P}$  u.  $P^*$  Schicht (nur Nahbeben)
- $P$  ist in die darunter liegende  $P$ -Schicht eingedrungen (normaler erster Vorläufer)
- $P_1; P_2$  Einsätze vor dem normalen ersten Vorläufer, vergl. die Laufzeitkurven von Mohorovičić.
- $P'$  Longitudinale Wellen durch den Erdkern.
- $PR_n$  Normaler erster Vorläufer,  $n$  - mal an der Erdoberfläche reflektiert.
- $P_c P$  An der Oberfläche des Erdkerns reflektierte longitudinale Welle.
- $\bar{S}; S^*; S; S_1; S_2; S'; SR_n; S_c S$  sind analoge Einsätze des II. Vorläufers.
- $PS$  oder  $SP$  Wechselwellen, d.h. Wellen, die bis zur Reflexion an der Erdoberfläche longitudinal, dann transversal, oder umgekehrt gelaufen sind.
- $PR_1 S$  Bis zur zweiten Reflexion an der Erdoberfläche longitudinal, dann transversal.
- $S_c P_c S$  Direkte Welle, im Erdkern longitudinal, im Mantel transversal.

- L Lange Wellen zu Beginn der Hauptphase.
- $L_Q$  Lange Wellen, die vorwiegend horizontal quer zur Richtung zum Herd schwingen, Querwellen.
- $L_R$  Lange Wellen, die vorwiegend in der Vertikalebene durch Herd und Station schwingen, Rayleigh - Wellen.
- $M; M_1; M_2; \dots$  Besonders auffallende Wellen von verhältnismässig grosser Amplitude im Bereich der Oberflächenwellen (Maxima).
- $W_2$  Wiederkehrwellen, d.h. Oberflächenwellen, die die Station über den Gegenpunkt erreichen.
- F Finis. Ende der im Seismogramm wahrnehmbaren Bewegung.
- i Impatus. Scharfer Beginn eines Einsatzes.
- e Emergio. Allmähliches Auftauchen eines Einsatzes.
- m Maximalbewegung bei einem Vorläufer.
- A Amplitude der wahren Bodenbewegung, gemessen von der Gleichgewichtslage aus, (positiv (+): Boden nach N,E oder oben).
- $\mu$  Mikron = 0,001 mm
- T Periode der Bodenbewegung.
- $\Delta$  Epizentralentfernung bestimmt aus S-P u. Laufzeitkurve.
- M G Z Mittlere Greenwich Zeit.

| Dat.                             | Ph.              | MGZ NS |      |    | T    | A    | MGZ EW |    |     | T    | A    | MGZ Z |    |     | T    | A    | MGZ II.NS |     |     | T | A |   |   |   |
|----------------------------------|------------------|--------|------|----|------|------|--------|----|-----|------|------|-------|----|-----|------|------|-----------|-----|-----|---|---|---|---|---|
|                                  |                  | h      | m    | s  |      |      | s      | μ  | m   |      |      | s     | s  | μ   |      |      | m         | s   | s   |   |   | μ | m | s |
| 13.I.                            | i P              | 00     | 14   | 35 |      |      | 14     | 35 |     |      |      | 14    | 35 | 7   | 26   | 14   | 35        |     |     |   |   |   |   |   |
|                                  | m                |        |      |    |      |      |        |    |     |      |      | 40    |    | 4   | 8    | 15   | 00        | 7   | 12  |   |   |   |   |   |
|                                  | i                |        | 15   | 09 |      |      |        |    |     |      |      | 15    | 13 | 4   | 4    |      |           |     |     |   |   |   |   |   |
|                                  | e                |        | 17   | 28 | 14   | 12   |        |    |     |      |      | 16    | 25 |     |      |      |           |     |     |   |   |   |   |   |
|                                  | ePR <sub>1</sub> |        | 18   | 14 | 19   | 32   | 18     | 15 |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | iPR <sub>2</sub> |        | 19   | 18 |      |      |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | i S <sub>2</sub> |        |      |    |      |      | 23     | 59 |     |      |      | 23    | 57 | 18  | 93   |      |           |     |     |   |   |   |   |   |
|                                  | m                |        |      |    |      |      | 24,1   |    | 20  | 140  |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | e PS             | 00     | 24   | 59 | 17   | 15   | 24     | 59 | 19  | 260  |      | 24    | 59 | 14  |      | 24   | 59        | 17  | 170 |   |   |   |   |   |
|                                  | m                |        | 25   | 09 | 18   |      | 25,2   |    |     |      |      | 25,2  |    | 14  | 61   | 25,2 |           | 17  | 140 |   |   |   |   |   |
|                                  | e                |        | 25   | 34 |      |      |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | m                |        |      | 51 | 14   | 32   |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | iSR <sub>1</sub> |        | 29   | 54 | 20   | 14   | 29     | 51 |     |      |      |       |    |     |      | 29   | 51        |     |     |   |   |   |   |   |
|                                  | eSR <sub>2</sub> |        | 32   | 41 | 20   | 10   |        |    |     |      |      |       |    |     |      | 32   | 33        |     |     |   |   |   |   |   |
|                                  | eSR <sub>3</sub> |        | 33   | 34 |      |      | 33     | 31 |     |      |      |       |    |     |      | 33   | 30        |     |     |   |   |   |   |   |
|                                  | m                |        | 34   | 43 | 22   | 28   | 34,7   |    | 18  | 150  |      |       |    |     |      | 34,2 |           | 18  | 140 |   |   |   |   |   |
|                                  | e L              |        | 39,2 |    | 60   |      |        |    |     |      |      | 39,1  |    | 58  |      | 38,4 |           | 60  |     |   |   |   |   |   |
| M <sub>1</sub>                   |                  | 44,2   |      | 32 | 780  | 45,7 |        | 22 | 480 |      | 45,3 |       | 26 | 430 | 44,2 |      | 30        |     |     |   |   |   |   |   |
| M <sub>2</sub>                   |                  | 47,7   |      | 24 | 520  |      |        |    |     |      |      |       |    |     | 47,7 |      | 25        | 480 |     |   |   |   |   |   |
| M <sub>3</sub>                   |                  | 49,4   |      | 19 | 340  | 49,7 |        | 18 | 290 |      | 50,7 |       | 22 | 510 | 49,4 |      | 25        | 560 |     |   |   |   |   |   |
| M <sub>4</sub>                   |                  | 55,8   |      | 16 | 150  | 55,7 |        | 16 | 140 |      | 55,8 |       | 17 | 390 |      |      |           |     |     |   |   |   |   |   |
| F <sup>4</sup>                   |                  | 03,0   |      |    |      |      |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| Herd in Kamschatka, Δ : 8000 km. |                  |        |      |    |      |      |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| 16.I.                            | e P              | 08     |      |    |      |      |        |    |     |      | 19   | 07    |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | m                |        |      |    |      |      |        |    |     |      | 19,2 |       | 5  | 2   |      |      |           |     |     |   |   |   |   |   |
|                                  | e S              | 08     |      |    |      | 29   | 44     | 8  | 2   |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | e L              | 08     | 50,2 |    |      | 52,0 |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | M <sub>1</sub>   |        | 55,7 | 21 | 40   | 55,7 |        | 23 | 29  |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| M <sub>2</sub>                   | 09               |        |      |    |      | 02,5 |        | 21 | 24  | 02,2 |      | 17    | 2  |     |      |      |           |     |     |   |   |   |   |   |
| F <sup>2</sup>                   | 09,3             |        |      |    |      |      |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| Δ : 9700 km.                     |                  |        |      |    |      |      |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| 17.I.                            | e                | 00     | 13,1 |    |      | 13,1 |        |    |     |      | 13,9 |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | m                |        | 15,0 | 9  | 1    |      |        |    |     |      | 14,9 | 3     | 1  |     |      |      |           |     |     |   |   |   |   |   |
|                                  | e L              |        | 15   | 54 |      | 15   | 58     |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | M                |        | 16,1 | 12 | 3    | 16,1 |        | 11 | 2   |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| F                                | 01               | 20     |      |    |      |      |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| 17.I.                            | e P              | 11     |      |    |      | 57,5 |        |    |     |      | 57,6 |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | m                |        |      |    |      |      |        |    |     |      | 57,7 |       | 3  | 1   |      |      |           |     |     |   |   |   |   |   |
|                                  | e                | 12     | 07,0 |    |      | 06,1 |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | e                |        |      |    |      | 09,6 |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | e L              |        | 17,0 | 39 |      | 15,0 |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| M                                |                  | 19,5   |      |    | 20,0 |      | 35     |    |     | 20,4 |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| F                                | 13,1             |        |      |    |      |      |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| Herd: Venezuela                  |                  |        |      |    |      |      |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| 18.I.                            | e L              | 01     | 32,0 |    |      | 32,0 |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | M                |        | 36,0 | 18 | 2    | 35,0 |        | 20 | 3   |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | F                | 01     | 39,0 |    |      |      |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| 21.I.                            | e P              | 10     | 41   | 29 | 5    | 2    |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | e                |        | 50   | 29 |      |      |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | e L              | 11     | 07   |    |      | 04   |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
|                                  | M                |        | 11,1 | 15 | 1    | 10,6 |        | 20 | 6   |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |
| F                                | 11,9             |        |      |    |      |      |        |    |     |      |      |       |    |     |      |      |           |     |     |   |   |   |   |   |

| Dat.   | Ph.   | MGZ NS |    |              | T  | A | MGZ EW   |   |    | T  | A  | MGZ Z |   |                       | T | A | MGZ II.NS                     |    |    | T  | A   |
|--|---|--------|----|--------------|----|---|--|---|----|----|--|-------|---|-----------------------|---|---|-------------------------------|----|----|----|-----|
|  |   | h      | m  | s            |    |   | m  | s | m  |    |  | s     | m | s                     |   |   | m                             | s  | s  |    |     |
| 22.I.  | e L<br>M<br>F   | 15     | 16 |              | 19 | 3 | 14<br>16,6   |   | 13 |    |  |       |   |                       |   |   |                               |    |    |    |     |
| 23.I.  | e P<br>m<br>e S<br>e L<br>M<br>F  | 11     | 18 | 55           |    |   | 18 57<br>22 45<br>25,1<br>28,1   | ? | 3  | 1  | 18 52<br>57  | 3     | 1 | 18 54<br>57           |   |   | 22 44                         |    |    |    |     |
| $\Delta$ : 2300 km                               |   |        |    |              |    |   |  |   |    |    |  |       |   |                       |   |   |                               |    |    |    |     |
| 24.I.  | e P<br>m<br>e S<br>m<br>e L<br>M <sub>1</sub><br>M <sub>2</sub><br>M <sub>3</sub><br>F  | 20     | 49 | 28           | 16 | 2 | 49 23<br>49,6<br>53,1<br>59 58<br>00 24<br>09 33<br>17,1<br>20,1<br>22,4<br>30,1 |   | 15 | 2  | 49 21<br>49,5  | 6     | 2 | 6                     | 3 |   |                               |    |    |    |     |
| $\Delta$ : 9600 km. Es folgen noch über 8 Maxima |   |        |    |              |    |   |  |   |    |    |  |       |   |                       |   |   |                               |    |    |    |     |
| 27.I.  | e P<br>e L<br>M<br>F  | 16     | 16 | 34,1<br>37,1 |    |   | 34,1<br>40,1   |   | 30 | 19 | 17 25<br>35,1<br>41,1  | 3     | 1 |                       |   |   |                               |    |    |    |     |
| 1.II.  | i P<br>e<br>m <sub>1</sub><br>m <sub>2</sub><br>ePR <sub>1</sub><br>m <sub>1</sub><br>e<br>m<br>i S<br>e L<br>M <sub>1</sub><br>M <sub>2</sub><br>M <sub>3</sub><br>F | 17     | 22 | 22<br>23 14  | 5  | 2 | 22 22<br>23 13<br>23 38<br>24,2  |   | 4  | 8  | 22 20<br>23 13<br>23 16<br>23 38<br>24,1<br>24 19<br>24 46<br>25,1 | 3     | 6 | 22 21<br>5<br>8<br>10 |   |   | 23,8<br>23 57<br>24,6<br>25,2 | 12 | 80 | 13 | 110 |
| Herd in Turkestan $\Delta$ : 4700 km             |   |        |    |              |    |   |  |   |    |    |  |       |   |                       |   |   |                               |    |    |    |     |
| 2.II.  | i P<br>m<br>e S<br>m<br>e L<br>M<br>F   | 00     | 10 | 26           |    |   | 10 27<br>11,9<br>18,6<br>19,1<br>27,1<br>35,1                                    |   | 11 | 1  | 10 22<br>9<br>20   | 3     | 2 | 10 25                 |   |   | 18,6<br>27,6<br>35,1          | 18 | 13 | 20 | 50  |
| $\Delta$ : 6750 km                               |   |        |    |              |    |   |  |   |    |    |  |       |   |                       |   |   |                               |    |    |    |     |

| Dat.       | Ph.  | MGZ<br>NS   | T        | A        | MGZ<br>EV   | T       | A        | MGZ<br>Z   | T       | A        | MGZ<br>II.NS                              | T  | A                           |                             |
|------------|--|---|----------|----------|---|---------|----------|--|---------|----------|---|--|-----------------------------|-----------------------------|
|            |  | h m s   | s        | <i>M</i> | m s   | s       | <i>M</i> | m s  | s       | <i>M</i> | m s                                       | s  | <i>M</i>                    |                             |
| 10.II.     | e L<br>M<br>F  | 16 14<br>29,6<br>18,1   | 20<br>17 | 4<br>5   | 02,1<br>29,6  | 20      |          | 26,1<br>30,1   | 20      | 50       |   |  |                             |                             |
| 10.II.     | e<br>M<br>F  | 17 27,6<br>34,6<br>17 42  | 8        | 2        |   |         |          |  |         |          |   |  |                             |                             |
| 14.II.     | e L<br>M<br>F  | 15 25,6<br>27,1<br>16,6   | 15       | 5        | 26,1<br>27,6  | 15      | 3        |  |         |          |   |  |                             |                             |
| 15.II.     | e L<br>M<br>F  | 08<br><br>10,1  |          |          | 48,1<br>58  | 18      | 5        |  |         |          |   |  |                             |                             |
| 18.II.     | e<br>M<br>F  | 19 05 36<br>10,1<br>19,6  | 4        | 4        | 05 35<br>08,6   | 4       | 3        |  |         |          | 04,9<br>07,1                              | 4  | 4                           |                             |
| 22.II.     | e P<br>i P<br>e<br>iPR <sub>2</sub><br>e<br>i S<br>e L<br>M <sub>1</sub><br>M <sub>2</sub><br>F <sub>2</sub> | 20 51 50<br><br>59 48<br>21 00 04<br>09,9<br>12,1<br>13,8<br>23,2 | 2        | 1        | 51 50<br>53 54<br>55 13<br>59 55<br>00 04<br>09,1<br>12,2<br>14 | 8<br>11 | 2<br>8   | 51 47<br>51 57<br><br>59 51<br>00 04<br>08,6<br>12,1<br>13,8 |         |          |   | 51 50<br><br>?<br>00 14<br>09 56<br>12,2<br>13,9 | 4<br><br><br>16<br>10<br>10 | 1<br><br><br>52<br>17<br>19 |
| Δ: 6750 km |  |   |          |          |   |         |          |  |         |          |   |  |                             |                             |
| 26.II.     | e P<br>i P<br>m<br>e<br>e<br>e S<br>e L<br>M <sub>1</sub><br>F <sub>1</sub>                                  | 09 12 28<br><br><br>21 55<br>30,9<br>53,1<br>10,2                 |          |          | 12 29<br>12 42<br><br>32,1<br>42,1                              |         |          | 12 25<br>12 28<br><br>45,6<br>53,1                           | 3       | 8        | 12 27<br>12 29<br>12 34<br>12 43<br>21 55 |  | 1<br>1<br>2<br>6            | 1<br>1<br>4<br>1            |
| Δ: 8250 km |  |   |          |          |   |         |          |  |         |          |   |  |                             |                             |
| 27.II.     | e<br>m<br>e(L)<br>M<br>F   | 18<br><br><br>18,5  |          |          |   |         |          |  |         |          | 22,2<br>22 19<br>23,8<br>23 12            |  | 1<br>1                      |                             |
| 1.III.     | e<br>L<br>M <sub>1</sub><br>M <sub>2</sub><br>F  | 07<br>08 11,0<br>13,0<br>17,5<br>09 26                            |          |          | 08,0<br>17,4  | 14      | 3        | 42 23<br>13,0  | 6<br>20 | 1<br>2   |   |  |                             |                             |

Beben durch Mikroseismik stark gestört.

| Dat.  | Ph.  | MGZ<br>NS   | T  | A  | MGZ<br>EW   | T   | A                               | MGZ<br>Z   | T  | A   | MGZ<br>II,NS  | T  | A   |
|---|--|---|--|--|---|---|---------------------------------|--|--|---|---|--|---|
|   |  | h m s   | s  | <i>μ</i>   | m s   | s   | <i>μ</i>                        | m s  | s  | <i>μ</i>  | m s   | s  | <i>μ</i>  |
| 1.III.  | e<br>e<br>i<br>i<br><br>m <sub>1</sub><br>m <sub>2</sub><br>F <sup>2</sup>   | 11<br>11 34,9   |  |  | 34,9  |   |                                 | 35,0   |  |   | 33,8<br>34 54<br>35 02<br>35 07<br>08<br>18   | 1<br>1<br>1  |   |
| Nahbeben. Gefühlt in der Schweiz.                         |  |   |  |  |   |   |                                 |  |  |   |   |  |   |
| 3.III.  | e<br>F   | 03  |  |  |   |   |                                 |  |  |   | 18 58<br>23,0   |  |   |
| 3.III.  | e<br>L<br>M <sub>1</sub><br>M <sub>2</sub><br>F <sup>2</sup>   | 16 57,0<br>17 18 09<br>08,0   | 22<br>12   | 1<br>5<br>2  | 05,0<br>08,0<br>11,0  | 25<br>13<br>9   | 5<br>4<br>2                     | 07,0<br>08,2<br>11,0   | 15<br>10   | 4<br>5  |   |  |   |
| 7.III.  | i<br>P<br>m <sub>1</sub><br>m <sub>2</sub><br>iPR <sub>1</sub><br>m <sub>1</sub><br>iPR <sub>2</sub><br>iS <sub>2</sub><br>m<br>iPS<br>m<br>eSR <sub>1</sub><br>m <sub>1</sub><br>eSR <sub>2</sub><br>m<br>iSR <sub>3</sub><br>m <sub>3</sub><br>eL <sub>1</sub><br>iL <sub>1</sub><br>M <sub>1</sub><br>M <sub>2</sub><br>iL <sub>2</sub><br>M <sub>1</sub><br>M <sub>2</sub><br>M <sub>3</sub><br>M <sub>4</sub><br>F <sup>4</sup> | 01 46 40<br>50<br>47 26<br>49,0<br>51,0<br>56 30<br>40<br>57 02<br>57 15<br>02 01 37<br>02,0<br>04 02<br>06<br>06 47<br>11 45<br>13<br>19,5<br>20,0<br>24,3<br>25,5<br>28,7<br>05,5 | 16<br>16<br>10<br>12<br>7<br>7<br>9<br>7<br>29<br>32<br>26<br>23<br>15<br>50<br>44<br>19<br>21<br>18<br>20<br>16 | 40<br>130<br>20<br>180<br>20<br>8<br>50<br>20<br>40<br>390<br>190<br>70<br>2200<br>1800<br>180<br>180<br>170<br>190<br>150 | 46 40<br>47,0<br>49 19<br>49,9<br>56,5<br>56,5<br>57 02<br>57 08<br>01 23<br>04 12<br>06 39<br>10,5<br>13,0<br>19,5<br>23,8<br>27,5 | 29<br>13<br>9<br>11<br>14<br>29<br>24<br>18<br>18<br>19<br>14<br>14<br>29<br>24<br>18<br>19<br>14<br>19<br>19<br>19<br>19 | 166<br>178<br>131<br>140<br>141 | 11,0<br>12,0<br>11,4<br>12,7<br>19,9<br>20,0<br>24,1<br>25,5<br>28,2 | 7<br>6<br>7<br>8<br>9<br>9<br>20<br>20<br>20<br>11<br>14<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 70<br>50<br>10<br>20<br>56 29<br>57,0<br>57 08<br>01 23<br>48<br>160<br>210<br>140<br>270 | 46 39<br>46 39<br>46 39<br>46 39<br>56 29<br>57,0<br>57 08<br>01 23<br>11,4<br>12,7<br>19,9<br>24,2<br>25,8<br>28,8 | 11<br>11<br>11<br>11<br>7<br>6<br>6<br>6<br>47<br>20<br>19<br>18<br>17 | 80<br>20<br>40<br>160<br>20<br>40<br>160<br>140<br>110<br>167 |
| Herd: Aleuten. Δ: 8650 km. Es folgen noch über 12 Maxima. |  |   |  |  |   |   |                                 |  |  |   |   |  |   |
| 9.III.  | e<br>L<br>M<br>F   | 03 02,0<br>11,5<br>04,5   | 25<br>22   | 4  | 00,0<br>14,0  | 32<br>14  | 9<br>4                          | 14   | 15<br>14   |   |   |  |   |
| 9.III.  | e<br>L<br>M <sub>1</sub><br>M <sub>2</sub><br>F <sup>2</sup>   | 11 22,0<br>12 00,0<br>32<br>34<br>14,2  | 19<br>17   | 40<br>22   | 22,0<br>00,0<br>31,0<br>35,5  | 12<br>20<br>19  | 1<br>40<br>30                   |  |  |   |   |  |   |

| Dat.                              | Ph.   | MGZ NS |         |   | T  | A | MGZ EW |    |   | T    | A    | MGZ Z |    |    | T | A | MGZ II.NS |   |   | T | A |
|-----------------------------------|---|--------|---------|---|----|---|--------|----|---|------|------|-------|----|----|---|---|-----------|---|---|---|---|
|                                   |   | h      | m       | s |    |   | s      | μ  | m |      |      | s     | s  | μ  |   |   | m         | s | s |   |   |
| 19.III.                           | e L<br>M<br>F   | 00     | 07,1    |   | 21 | 5 | 07,1   | 22 | 4 |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   |        | 12,1    |   |    |   | 09,1   | 22 | 4 |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   | 01     | 22      |   |    |   |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
| 19.III.                           | e L<br>M<br>F   | 21     | 18,1    |   | 24 | 6 | 17,1   |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   |        | 44,1    |   | 19 | 6 | 46,1   | 17 | 6 |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   | 22     | 1       |   |    |   |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
| 20.III.                           | e L<br>M<br>F   | 21     | 57,1    |   | 25 | 6 |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   |        | 22 03,0 |   |    |   |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   | 22     | 2       |   |    |   |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
| 21.III.                           | e L<br>M<br>F   | 03     | 01,1    |   | 17 | 3 | 00,1   |    |   |      |      | 23,1  |    |    |   |   |           |   |   |   |   |
|                                   |   |        | 30,0    |   | 17 | 7 | 27,6   | 19 |   |      |      | 27,6  | 20 | 20 |   |   |           |   |   |   |   |
|                                   |   | 04     | 0       |   |    |   |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
| 21.III.                           | e L<br>M<br>F   | 21     |         |   |    |   | 59,1   |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   |        | 22      |   |    |   | 06,6   | 14 | 1 |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   | 23     | 2       |   |    |   |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
| 22.III.                           | e F   | 03     |         |   |    |   | 42,1   |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   | 03     |         |   |    |   | 55,0   |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
| 23.III.                           | e F   | 21     | 01,1    |   |    |   |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   | 21     | 2       |   |    |   |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
| 31.III.                           | e M<br>F  | 03     |         |   |    |   |        |    |   |      |      |       |    |    |   |   | 08 56     |   |   |   |   |
|                                   |   | 03     |         |   |    |   |        |    |   |      |      |       |    |    |   |   | 09,1      |   |   |   |   |
|                                   |   |        |         |   |    |   |        |    |   |      |      |       |    |    |   |   | 09,5      |   |   |   |   |
| 31.III.                           | e L<br>M<br>F   | 21     | 03,1    |   | 14 | 3 | 03,1   | 30 | 8 |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   |        | 11,7    |   |    |   | 12,1   | 13 | 2 |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   | 21     | 3       |   |    |   |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
| 7.IV.                             | e L<br>M <sub>1</sub><br>M <sub>2</sub><br>F <sub>2</sub>   | 19     |         |   |    |   | 55,6   |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   | 20     |         |   |    |   | 17,1   | 25 | 5 |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   |        |         |   |    |   | 24,6   | 19 | 4 |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   |        |         |   |    |   | 27,6   | 15 | 2 |      |      |       |    |    |   |   |           |   |   |   |   |
|                                   |   | 21     | 0       |   |    |   |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
| 10.IV.                            | e P<br>e<br>e<br>i<br>e<br>e<br>L<br>M <sub>1</sub><br>M <sub>2</sub><br>M <sub>3</sub><br>F <sub>3</sub> | 05     |         |   |    |   |        |    |   |      |      |       |    |    |   |   | 45 02     |   | 1 |   |   |
|                                   |   | 05     |         |   |    |   |        |    |   |      |      |       |    |    |   |   | 45,8      |   |   |   |   |
|                                   |   | 05     |         |   |    |   |        |    |   |      |      |       |    |    |   |   | 45 38     |   |   |   |   |
|                                   |   | 05     | 45,6    |   |    |   |        |    |   |      |      |       |    |    |   |   | 45 38     |   | 1 |   | 1 |
|                                   |   | 05     |         |   |    |   | 46,4   | 2  | 1 |      | 46,6 |       |    |    |   |   | 46 30     |   |   |   |   |
|                                   |   | 05     | 47,2    |   | 2  | 1 | 47,2   | 2  | 3 |      |      |       |    |    |   |   | 46 30     |   |   |   |   |
|                                   |   | 05     | 47,5    |   |    |   | 47,6   |    |   |      | 47,2 |       |    |    |   |   | 47 12     |   | 2 |   | 2 |
|                                   |   | 05     |         |   |    |   |        |    |   |      |      |       |    |    |   |   | 47 19     |   | 2 |   | 2 |
|                                   |   | 05     |         |   |    |   |        |    |   |      |      |       |    |    |   |   | 47 25     |   | 1 |   | 2 |
|                                   |   | 06     | 9       |   |    |   | 48,1   |    |   | 48,3 | 1    |       |    |    |   |   |           |   |   |   |   |
| Herd: Oberitalien, (Bologna)      |   |        |         |   |    |   |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |
| 11.IV.                            | e F   | 01 00  |         |   |    |   |        |    |   |      |      |       |    |    |   |   | 00        |   |   |   |   |
|                                   |   | 01 01  |         |   |    |   |        |    |   |      |      |       |    |    |   |   | 01        |   |   |   |   |
| sehr schwaches Nahbeben (Bologna) |   |        |         |   |    |   |        |    |   |      |      |       |    |    |   |   |           |   |   |   |   |



| Dat.    | Ph.   | MGZ NS   |               |         | T.  | A.    | MGZ EW        |     |       | T.   | A.   | MGZ Z                   |   |   | T. | A. | MGZ II.NS |    |    | T. | A. |       |       |       |       |   |   |       |    |      |
|---------|---|----------|---------------|---------|-----|-------|---------------|-----|-------|------|------|-------------------------|---|---|----|----|-----------|----|----|----|----|-------|-------|-------|-------|---|---|-------|----|------|
|         |   | h        | m             | s       | s   | μ     | m             | s   | s     | μ    | m    | s                       | s | μ | m  | s  | s         | μ  | m  | s  | s  | μ     |       |       |       |   |   |       |    |      |
| 11.IV.  | e e m e m F   | 01       |               |         |     |       | 44,0          | 2   |       |      | 44,0 | 1                       |   |   |    |    |           | 42 | 20 | 1  | 2  |       |       |       |       |   |   |       |    |      |
|         |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           | 44 | 00 |    |    | 44    | 11    | 44    | 28    |   |   |       |    |      |
| 19.IV.  | e e i h e e L M <sub>1</sub> M <sub>2</sub> F <sup>2</sup>                                      | 04<br>04 |               |         |     |       |               |     |       | 17,8 | 1    | 1                       |   |   |    |    |           | 17 | 15 |    |    |       |       |       |       |   |   |       |    |      |
|         |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           | 17 | 47 |    |    | 17    | 50    |       |       |   |   |       |    |      |
|         |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           | 18 | 09 |    |    | 18    | 09    |       |       |   |   |       |    |      |
|         |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           | 19 | 20 |    |    | 19    | 20    |       |       |   |   |       |    |      |
| 20.IV.  | e e i i i m F   | 01       |               |         |     |       |               |     |       |      |      | 12 16                   | 1 | 1 |    |    |           |    |    |    |    |       |       |       |       |   |   |       |    |      |
|         |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           |    |    |    |    | 13 11 | 13 49 | 14 02 | 14 44 |   |   |       |    |      |
| 21.IV.  | e L F   | 12<br>13 | 51,2<br>56,2  | 9<br>18 |     | 1     |               |     |       |      |      |                         |   |   |    |    |           |    |    |    |    |       |       |       |       |   |   |       |    |      |
|         |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           |    |    |    |    | 03,0  |       |       |       |   |   |       |    |      |
| 22.IV.  | e L M <sub>1</sub> M <sub>2</sub> F <sup>2</sup>  | 08<br>08 | 28,8<br>29 30 |         |     |       | 28,8<br>29 29 |     |       |      |      | 27 56<br>28 59<br>29 31 |   |   |    |    |           | 27 | 52 | 1  |    |       |       |       |       |   |   |       |    |      |
|         |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           | 28 | 58 |    |    |       |       |       |       |   |   |       |    |      |
|         |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           | 29 | 5  |    |    |       |       |       |       |   |   |       |    |      |
| 28.IV.  | e e e m e F   | 18       |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           | 41 | 37 | 1  |    |       |       |       |       |   |   |       |    |      |
|         |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           | 42 | 19 |    |    | 43    | 08    |       |       |   |   |       |    |      |
| 1.V.    | i P m i PR <sub>1</sub> m i S m e L M <sub>1</sub> M <sub>2</sub> M <sub>3</sub> F <sup>4</sup> | 15       | 44 36         | 2       | 1   | 44 36 | 4             | 1   | 44 35 | 3    | 7    | 44 37                   | 3 | 1 |    |    |           |    |    |    |    |       |       |       |       |   |   |       |    |      |
|         |   |          | 44,8          |         |     | 3     |               |     | 2     |      |      | 44,7                    |   |   |    |    |           |    |    |    |    |       | 4     | 1     | 44,7  | 4 | 9 | 44 37 | 3  | 1    |
|         |   |          | 45 41         |         |     |       |               |     |       |      |      | 45 57                   |   |   |    |    |           |    |    |    |    |       |       |       | 44 57 | 4 | 9 | 45 51 | 3  | 1    |
|         |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           |    |    |    |    |       |       |       | 45 52 | 3 | 4 |       |    |      |
|         |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           |    |    |    |    |       |       |       | 46 02 |   |   |       |    |      |
|         |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           |    |    |    |    |       |       |       | 46 43 | 3 | 5 |       |    |      |
|         |   |          | 50 00         |         |     | 11    |               |     | 10    |      |      | 50 00                   |   |   |    |    |           |    |    |    |    |       | 10    | 7     |       |   |   |       |    |      |
|         |   |          | 50,5          |         |     | 12    |               |     | 20    |      |      | 50,7                    |   |   |    |    |           |    |    |    |    |       | 14    | 21    |       |   |   |       |    |      |
|         |   |          | 52 57         |         |     | 90    |               |     |       |      |      | 51,2                    |   |   |    |    |           |    |    |    |    |       | 27    | 100   | 53 05 | 6 | 9 | 53,2  |    |      |
|         |   |          | 58,7          |         |     | 22    |               |     | 690   |      |      | 59,2                    |   |   |    |    |           |    |    |    |    |       | 20    | 360   |       | 6 |   | 58,7  | 30 | 1260 |
| 16 03,8 | 13  | 130      | 01,2          | 16      | 250 | 01,2  | 15            | 220 | 04,7  | 10   | 120  |                         |   |   |    |    |           |    |    |    |    |       |       |       |       |   |   |       |    |      |
| 04,7    | 10  | 150      | 06,7          | 10      | 150 | 07,5  | 7             | 80  | 06,3  | 12   | 210  |                         |   |   |    |    |           |    |    |    |    |       |       |       |       |   |   |       |    |      |
| 08,7    | 10  | 150      | 08,5          | 8       | 200 | 09,7  | 7             | 40  | 08,7  | 10   | 260  |                         |   |   |    |    |           |    |    |    |    |       |       |       |       |   |   |       |    |      |
| 20,5    |   |          |               |         |     |       |               |     |       |      |      |                         |   |   |    |    |           |    |    |    |    |       |       |       |       |   |   |       |    |      |

Herd: Persien Δ : 3800 km.

Geophysikalisches Institut G Ö T T I N G E N 1929.

| Dat.                                  | Ph.  | MGZ NS |       |    | T   | A    | MGZ EW |    |    | T    | A  | MGZ Z |      |      | T    | A  | MGZ II.NS |      |    | T  | A  |   |
|---------------------------------------|--|--------|-------|----|-----|------|--------|----|----|------|----|-------|------|------|------|----|-----------|------|----|----|----|---|
|                                       |  | h      | m     | s  | s   |      | m      | s  | s  |      | m  | s     | s    |      | m    | s  | s         |      | m  | s  | s  |   |
| 2.V.                                  | e P?<br>e L<br>M<br>F  | 14     | 37    | 59 |     |      |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  | 15     | 10,2  |    | 18  | 3    |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
| 7.V.                                  | e L<br>M<br>F  | 16     |       |    | 20  | 4    | 37,2   | 20 | 3  | 43,2 |    |       |      | 20   | 2    |    |           | 14   | 26 |    |    |   |
|                                       |  | 17     | 37,2  |    | 20  | 8    | 47,2   | 20 | 8  | 47   |    |       |      |      |      |    |           | 16,5 |    |    |    |   |
|                                       |  | 18     | 52,0  |    |     |      | 57     |    |    | 52   |    |       |      |      |      |    |           |      |    |    |    |   |
| 11.V.                                 | e<br>e<br>e<br>e<br>e<br>L<br>M <sub>1</sub><br>M <sub>2</sub><br>F <sub>2</sub>   | 19     |       |    |     |      |        |    |    | 24   |    |       |      |      |      |    |           | 24   | 28 |    |    |   |
|                                       |  | 19     |       |    |     |      |        |    |    |      |    |       |      |      |      |    |           | 24   | 31 | 1  |    |   |
|                                       |  | 19     | 25    | 03 | 2   | 6    |        |    |    | 25   | 03 |       |      |      |      |    |           | 25   | 03 | 1  |    |   |
|                                       |  |        |       |    |     |      |        |    |    | 26   | 10 | 5     | 1    |      |      |    |           | 25   | 46 | 1  |    |   |
|                                       |  | 19     | 26    | 40 | 3   | 2    | 26     | 33 |    | 26   | 41 |       |      |      |      |    |           | 26   | 41 | 1  | 1  | 4 |
|                                       |  |        |       |    |     |      | 26     | 56 | 1  | 26   | 48 |       | 1    |      |      |    |           | 26   | 42 | 1  | 4  | 4 |
|                                       |  | 19     | 35    |    |     |      |        |    |    |      |    |       | 1    |      |      |    |           | 26   | 51 | 1  | 4  | 4 |
| Herd in Oberitalien Bologna           |  |        |       |    |     |      |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
| 13.V.                                 | e P<br>e<br>e<br>m<br>e<br>L<br>M <sub>1</sub><br>M <sub>2</sub><br>M <sub>3</sub><br>F <sub>3</sub>   | 13     | 33,7? |    |     |      |        |    |    |      |    |       |      |      |      |    |           | 36   | 04 | 3  |    |   |
|                                       |  |        | 42,2  | 11 | 4   | 42,2 | 10     |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  |        | 47,2  |    |     | 47,2 |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  |        | 48,0  | 17 | 80  |      |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  |        | 53,0  |    |     | 52,7 |        |    |    |      |    |       |      |      |      |    |           | 53,2 |    | 13 | 2  | 5 |
|                                       |  |        | 55,2  | 12 | 4   | 55,8 | 10     | 3  |    |      |    |       |      |      |      |    |           | 55,2 |    | 12 | 5  | 3 |
|                                       |  |        | 56,2  | 9  | 2   | 57,7 | 8      | 5  |    |      |    |       |      |      |      |    |           | 57,8 |    | 8  |    |   |
|                                       |  |        | 58,2  | 9  | 2   | 58,8 | 11     | 5  |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  | 14,5   |       |    |     |      |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
| Z-Pendel war nicht in Ordnung.        |  |        |       |    |     |      |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
| 16.V.                                 | e<br>i<br>M<br>F   | 20     |       |    |     |      |        |    |    |      |    |       |      |      |      |    |           | 53,4 |    |    |    |   |
|                                       |  |        |       |    |     |      |        |    |    |      |    |       |      |      |      |    |           | 53   | 50 |    |    |   |
|                                       |  |        |       |    |     |      |        |    |    |      |    |       |      |      |      |    |           | 53   | 52 |    |    |   |
|                                       |  |        |       |    |     |      |        |    |    |      |    |       |      |      |      |    |           | 54,3 |    |    |    |   |
| 18.V.                                 | e P<br>m<br>ePR <sub>1</sub><br>i S <sub>1</sub><br>e S<br>m<br>e L <sub>1</sub><br>M <sub>1</sub><br>e L <sub>2</sub><br>M <sub>2</sub><br>M <sub>2</sub><br>M <sub>3</sub><br>F <sub>3</sub> | 06     | 42    | 56 | 2   | 1    | 42     | 52 |    | 42   | 52 | 3     | 1    | 42   | 58   | 3  |           | 42   | 58 | 3  |    |   |
|                                       |  |        |       |    |     |      | 43     | 02 |    | 43   | 02 | 3     | 2    | 43,2 |      |    |           | 43   | 27 | 2  |    |   |
|                                       |  |        | 47    | 01 | 19  | 45   |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  |        |       |    |     |      | 47     | 04 |    | 13   | 47 | 04    | 3    | 1    | 46   | 59 | 8         |      |    | 8  | 3  |   |
|                                       |  |        |       |    |     |      | 47,3   | 13 |    |      |    |       |      |      | 47,2 | 16 |           |      |    | 16 | 60 |   |
|                                       |  |        | 47,7  | 53 | 230 | 47,5 | 46     | 50 |    |      |    |       |      |      | 48,2 | 45 |           |      |    | 45 |    |   |
|                                       |  |        | 50,2  | 34 | 160 |      |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  |        | 51    | 15 | 15  | 17   | 51,2   | 22 | 80 | 50,7 | 30 | 33    | 51,2 | 20   | 80   |    |           |      |    | 20 | 80 |   |
|                                       |  |        | 53,2  |    |     |      | 52,7   | 13 | 5  | 53,7 | 19 | 78    | 53,2 | 18   | 68   |    |           |      |    | 18 | 68 |   |
|                                       |  |        | 56,2  | 14 | 58  |      |        |    |    |      |    |       | 56,0 | 12   | 26   |    |           |      |    | 12 | 26 |   |
|                                       |  |        | 58,7  | 12 | 24  |      |        |    |    |      |    |       | 58,0 | 10   | 40   |    |           |      |    | 10 | 40 |   |
|                                       |  | 07,5   |       |    |     |      |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
| Herd: Klein Asien $\Delta$ : 2600 km. |  |        |       |    |     |      |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
| 20.V.                                 | e Ø<br>e S<br>m<br>eSR <sub>1</sub><br>e L <sub>1</sub><br>M <sub>1</sub><br>M <sub>1</sub>  | 05     | 04,7  |    | 5   | 1    |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  |        | 14,7  |    |     |      | 14     | 35 | 14 |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  |        | 15,7  |    |     |      |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  |        | 19    | 46 | 26  | 12   | 19,6   |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  |        | 31,7  |    | 25  | 4    | 30,6   | 35 | 6  |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  |        | 36    |    | 22  | 10   |        |    |    |      |    |       |      |      |      |    |           |      |    |    |    |   |
|                                       |  |        |       |    |     |      | 40,2   | 19 | 3  |      |    |       |      |      |      |    |           |      |    |    |    |   |

| Dat.  | Ph.              | MGZ NS |      |    | T  | A   | MGZ EW |    |    | T   | A    | MGZ Z |     |      | T    | A    | MGZ II. NS |    |   | T | A |
|---|------------------|--------|------|----|----|-----|--------|----|----|-----|------|-------|-----|------|------|------|------------|----|---|---|---|
|   |                  | h      | m    | s  |    |     | s      | μ  | m  |     |      | s     | s   | μ    |      |      | m          | s  | s |   |   |
| 21.V.                                       | e P              | 16     |      |    |    |     | 47     | 49 | 4  |     | 1    | 47    | 51  | 3    |      |      | 47         | 51 |   |   |   |
|   | e e              | 16     | 58,2 |    | 4  |     | 58,2   |    |    |     |      |       |     |      |      |      |            |    |   |   |   |
|   | e e              | 17     | 04   | 08 | 32 | 7   | 03     | 49 | 20 | 3   |      |       |     |      |      |      |            |    |   |   |   |
|   | e e              |        | 08,2 |    | 19 | 2   | 08,2   |    | 19 | 6   |      |       |     |      |      |      |            |    |   |   |   |
|   | e L              |        | 17,0 |    | 38 | 10  | 16,4   |    | 38 | 7   | 19,2 |       |     |      |      |      | 19,2       |    |   |   |   |
|   | M <sub>1</sub>   |        | 22,2 |    | 25 | 70  | 20,4   |    | 25 | 56  |      |       |     |      |      |      |            |    |   |   |   |
|   | M <sub>2</sub>   |        | 27,5 |    | 16 | 30  | 28,4   |    | 18 | 70  | 28,2 | 17    | 60  | 27,7 | 17   | 33   |            |    |   |   |   |
|   | M <sub>3</sub>   |        | 30,2 |    | 16 | 40  | 30,4   |    | 16 | 30  | 30,2 | 17    | 50  | 30,2 | 17   | 40   |            |    |   |   |   |
|   | M <sub>4</sub>   |        | 33,7 |    | 13 | 13  | 33,2   |    | 17 | 39  | 33,7 | 13    | 29  | 33,4 | 17   | 33   |            |    |   |   |   |
|   | F                | 19,3   |      |    |    |     |        |    |    |     |      |       |     |      |      |      |            |    |   |   |   |
| 22.V.                                       | e L              | 21     | 41,2 |    | 20 | 2   |        |    |    |     |      |       |     |      |      |      |            |    |   |   |   |
|   | F                | 22     | 00,0 |    |    |     |        |    |    |     |      |       |     |      |      |      |            |    |   |   |   |
| 27.V.                                       | e P              | 22     | 51   | 38 | 7  |     | 51     | 33 |    |     | 51   | 31    |     |      |      | 51   | 35         |    |   |   |   |
|   | e m              |        |      |    |    |     |        |    |    |     | 52   | 03    | 3   | 2    |      |      |            |    |   |   |   |
|   | e S              | 23     | 01   | 02 | 11 | 3   | 01     | 01 |    |     |      |       |     |      |      | 01   | 01         |    |   |   |   |
|   | e m              |        |      |    |    |     | 01,7   |    | 9  | 22  |      |       |     |      |      | 01,2 |            | 7  | 2 |   |   |
|   | e L <sub>1</sub> |        | 01,7 |    | 50 | 250 |        |    |    |     |      |       |     |      |      |      |            |    |   |   |   |
|   | e L <sub>2</sub> |        | 09,2 |    | 35 | 9   | 10,2   |    | 60 | 500 | 14,2 | 56    |     |      | 14,2 | 45   |            |    |   |   |   |
|   | M <sub>1</sub>   |        |      |    |    |     | 23,7   |    | 19 | 400 | 23,0 | 23    | 490 | 23,1 | 18   | 280  |            |    |   |   |   |
|   | M <sub>2</sub>   | 23     | 26,2 |    | 19 | 360 | 26,2   |    | 15 | 120 | 24,7 | 20    | 410 | 25,2 | 20   | 280  |            |    |   |   |   |
|   | M <sub>3</sub>   |        |      |    |    |     | 29,0   |    | 22 | 230 | 27,3 | 17    | 410 | 29,2 | 19   | 160  |            |    |   |   |   |
|   | F                | 00,5   |      |    |    |     |        |    |    |     |      |       |     |      |      |      |            |    |   |   |   |
| Δ : 8200 km. Es folgen noch mehrere Maxima. |                  |        |      |    |    |     |        |    |    |     |      |       |     |      |      |      |            |    |   |   |   |
| 28.V.                                       | e e              | 07     |      |    |    |     |        |    |    |     |      |       |     |      |      | 16,2 |            |    |   |   |   |
|   | e e              | 07     | 17   | 37 |    |     | 17     | 33 |    |     | 17   | 38    |     |      |      | 16   | 54         | 7  | 3 |   |   |
|   | e m              |        | 18,7 |    | 3  | 1   | 18,8   |    | 3  | 2   | 17,9 |       | 3   | 1    | 18,0 | 13   | 38         |    |   |   |   |
| F   | 07               | 14,9   |      |    |    |     |        |    |    |     |      |       |     |      |      |      |            |    |   |   |   |
| 29.V.                                       | e P              | 23     |      |    |    |     |        |    |    |     |      |       |     |      |      | 32   | 39         | 1  |   |   |   |
|   | e e              |        |      |    |    |     |        |    |    |     |      |       |     |      |      | 32   | 57         | 1  |   |   |   |
|   | e e              |        |      |    |    |     |        |    |    |     |      |       |     |      |      | 33   | 47         |    |   |   |   |
|   | e M              |        |      |    |    |     |        |    |    |     |      |       |     |      |      | 33   | 42         | 1  | 1 |   |   |
| F   | 23               | 36     |      |    |    |     |        |    |    |     |      |       |     |      |      |      |            |    |   |   |   |
| Nahbeben. Gefühlt in Dänemark und Norwegen. |                  |        |      |    |    |     |        |    |    |     |      |       |     |      |      |      |            |    |   |   |   |
| 30.V.                                       | e e              | 10     |      |    |    |     | 02     | 32 |    |     | 02   | 29    |     |      |      |      |            |    |   |   |   |
|   | e e              | 10     | 06,2 |    | 8  |     |        |    |    |     |      |       |     |      |      |      |            |    |   |   |   |
|   | e e              |        | 11   | 57 |    |     | 12     | 07 | 7  | 1   |      |       |     |      |      |      |            |    |   |   |   |
|   | e L              |        | 33,2 |    | 31 | 6   | 34,2   |    | 31 | 8   | 41,2 | 20    | 30  |      |      |      |            |    |   |   |   |
|   | M <sub>1</sub>   |        | 37,2 |    | 25 | 14  | 37,2   |    | 25 | 27  |      |       |     |      |      |      |            |    |   |   |   |
|   | M <sub>2</sub>   |        | 43,7 |    | 21 | 14  | 44,2   |    | 19 | 20  | 43,7 | 20    | 41  |      |      |      |            |    |   |   |   |
|   | M <sub>3</sub>   |        | 51,2 |    | 21 | 16  | 51,0   |    | 16 | 13  | 50,7 | 16    | 40  |      |      |      |            |    |   |   |   |
| F   | 11,5             |        |      |    |    |     |        |    |    |     |      |       |     |      |      |      |            |    |   |   |   |
| Herd: Argentinien                           |                  |        |      |    |    |     |        |    |    |     |      |       |     |      |      |      |            |    |   |   |   |

| Dat.  | Ph.            | MGZ NS          |      |    |    | MGZ EW |       |    |       | MGZ Z |    |    |       | MGZ II.NS |    |   |   |   |
|-------|----------------|-----------------|------|----|----|--------|-------|----|-------|-------|----|----|-------|-----------|----|---|---|---|
|       |                | h               | m    | s  | s  | μ      | m     | s  | s     | μ     | m  | s  | s     | μ         | m  | s | s | μ |
| 1.VI. | e              | 18              |      |    |    |        | 41,0  |    |       |       |    |    |       |           |    |   |   |   |
|       | e              | 18              | 46   | 12 |    |        | 46,0  | 23 | 2     |       |    |    |       |           |    |   |   |   |
|       | m              |                 | 48,3 |    | 15 | 3      |       |    |       |       |    |    |       |           |    |   |   |   |
|       | e              |                 | 50   | 32 |    |        | 47,9  | 13 | 1     |       |    |    |       |           |    |   |   |   |
|       | e              |                 | 51   | 05 | 12 | 1      | 51 03 |    |       |       |    |    |       |           |    |   |   |   |
|       | e              | L               | 52   | 16 |    |        | 52 47 | 13 | 1     | 52 53 | 16 |    |       |           |    |   |   |   |
| 2.VI. | M              | 53,8            |      |    | 13 | 4      | 53,8  | 12 | 10    | 53,5  | 12 | 10 |       |           |    |   |   |   |
|       | F              | 19              | 23   |    |    |        |       |    |       |       |    |    |       |           |    |   |   |   |
|       | i              | 21              |      |    |    |        | 51 45 |    |       | 51 43 | 3  | 1  |       |           |    |   |   |   |
|       | i              | 22              | 00   | 11 |    |        | 00 11 | 12 | 20    |       |    |    |       |           |    |   |   |   |
|       | e              |                 | 05   | 37 |    |        | 05 37 |    |       |       |    |    |       |           |    |   |   |   |
|       | m              |                 | 24   |    |    |        | 05,8  | 9  | 5     |       |    |    |       |           |    |   |   |   |
| 3.VI. | e              |                 | 30,3 |    | 13 | 1      | 32    | 12 | 4     | 31 18 | 12 | 5  |       |           |    |   |   |   |
|       | M <sub>1</sub> |                 | 35   |    | 13 | 1      | 35    | 12 | 4     |       |    |    |       |           |    |   |   |   |
|       | M <sub>2</sub> |                 | 58   |    |    |        |       |    |       |       |    |    |       |           |    |   |   |   |
|       | F <sup>2</sup> | 22              | 58   |    |    |        |       |    |       |       |    |    |       |           |    |   |   |   |
|       | e              | 20              |      |    |    |        | 37 12 |    |       | 37 14 | 3  | 2  |       |           |    |   |   |   |
|       | e              | PR <sub>1</sub> |      |    |    |        | 38 34 |    |       | 38 36 | 4  | 2  | 38 38 |           |    |   |   |   |
| 4.VI. | m              |                 |      |    |    | 38,8   | 3     | 3  |       |       |    |    |       |           |    |   |   |   |
|       | e              | 20              | 45   | 59 |    | 43 18  | 8     | 3  | 43 09 | 10    | 3  |    |       |           |    |   |   |   |
|       | e              |                 | 50   | 42 | 6  | 1      | 46 00 | 8  | 6     | 48,3  |    |    | 45 57 | 5         | 1  |   |   |   |
|       | L              |                 | 52   |    | 4  | 18     | 51,8  | 8  | 6     |       |    |    | 50 43 | 4         | 3  |   |   |   |
|       | M <sub>1</sub> |                 |      |    |    |        | 52,3  | 13 | 15    | 52,3  | 4  | 3  | 52,3  | 4         | 3  |   |   |   |
|       | M <sub>2</sub> |                 |      |    |    |        | 58,7  | 14 | 20    | 57    | 4  | 4  | 54    | 10        | 15 |   |   |   |
| 6.VI. | F <sup>2</sup> | 21              | 26   |    |    |        |       |    |       |       |    |    |       |           |    |   |   |   |
|       | Δ              | : 4300 km.      |      |    |    |        |       |    |       |       |    |    |       |           |    |   |   |   |
|       | e              | 07              | 27,3 |    |    |        | 21 29 |    |       |       |    |    |       |           |    |   |   |   |
|       | e              |                 | 29,3 |    |    |        | 26 51 |    |       |       |    |    |       |           |    |   |   |   |
|       | L              |                 | 29,5 |    | 7  | 1      | 28    | 11 | 4     |       |    |    |       |           |    |   |   |   |
|       | F              | 07              | 49   |    |    |        |       |    |       |       |    |    |       |           |    |   |   |   |
| 9.VI. | e              | 10              | 59   | 56 |    |        |       |    |       |       |    |    |       |           |    |   |   |   |
|       | e              | 11              | 03   | 08 |    |        |       |    |       |       |    |    |       |           |    |   |   |   |
|       | S              |                 | 07   | 51 | 13 | 4      | 07 49 |    |       |       |    |    |       |           |    |   |   |   |
|       | e              |                 | 11,3 |    | 11 | 1      | 11,7  |    |       |       |    |    |       |           |    |   |   |   |
|       | L              |                 | 20,3 |    | 13 | 1      | 20,3  | 13 | 3     |       |    |    |       |           |    |   |   |   |
|       | M <sub>1</sub> |                 | 23,3 |    | 19 | 20     | 22,3  |    |       |       |    |    |       |           |    |   |   |   |
| 9.VI. | M <sub>2</sub> |                 | 24,3 |    | 14 | 3      | 24,3  | 12 | 8     |       |    |    |       |           |    |   |   |   |
|       | M <sub>3</sub> |                 | 26   |    | 11 | 1      | 25,3  | 11 | 8     |       |    |    |       |           |    |   |   |   |
|       | F <sup>3</sup> | 12              | 06   |    |    |        |       |    |       |       |    |    |       |           |    |   |   |   |
|       | i              | 09              | 19   | 53 | 3  | 1      | 19 53 | 4  | 1     | 19 52 | 3  | 3  | 19 53 |           |    |   |   |   |
|       | m              |                 | 29   | 26 | 7  | 1      | 29 26 |    |       |       |    |    | 20 06 | 1         |    |   |   |   |
|       | e              |                 | 29,9 |    | 7  | 2      |       |    |       |       |    |    | 29 29 |           |    |   |   |   |
| 9.VI. | L              |                 | 44,7 |    | 43 | 120    | 44,4  | 43 | 50    | 53,7  | 25 | 40 | 29 57 | 7         | 2  |   |   |   |
|       | M <sub>1</sub> |                 | 55,5 |    | 13 | 10     | 55,6  | 12 | 20    |       |    |    | 48,4  | 34        |    |   |   |   |
|       | M <sub>2</sub> |                 | 59,9 |    | 14 | 20     | 59,9  | 12 | 15    | 59,9  | 15 | 30 | 55,4  | 15        | 20 |   |   |   |
|       | F <sup>2</sup> | 12              | 04   |    |    |        |       |    |       |       |    |    | 59,9  | 16        | 30 |   |   |   |
|       | Δ              | : 8200 km.      |      |    |    |        |       |    |       |       |    |    |       |           |    |   |   |   |

| Dat.                                      | Ph.               | MGZ NS |      |     | T    | A     | MGZ EW |      |      | T     | A    | MGZ Z |      |       | T    | A  | MGZ II.NS |       |      | T  | A  |       |
|---|-------------------|--------|------|-----|------|-------|--------|------|------|-------|------|-------|------|-------|------|----|-----------|-------|------|----|----|-------|
|   |                   | h      | m    | s   | s    | $\mu$ | m      | s    | s    | $\mu$ | m    | s     | s    | $\mu$ | m    | s  | s         | $\mu$ | m    | s  | s  | $\mu$ |
| 10.VI.                                    | e P               | 23     | 07   | 44  |      |       | 07     | 52   |      |       | 07   | 45    |      |       | 07   | 45 |           |       | 07   | 45 |    |       |
|   | m                 |        | 07   | 59  | 4    | 11    | 08     | 09   | 6    | 1     | 07   | 57    | 5    | 5     | 07   | 56 | 5         | 7     | 07   | 56 | 5  | 7     |
|   | e S               |        | 11   | 22  |      |       | 11     | 18   | 7    | 1     | 11   | 18    |      |       | 11   | 18 | 9         | 3     | 11   | 18 | 9  | 3     |
|   | m                 |        | 11   | 40  | 10   | 11    | 11,6   |      |      |       | 11,7 |       |      |       | 11   | 44 |           |       | 11   | 44 |    |       |
|   | i L               |        | 13   | 32  | 12   | 3     | 13     | 28   |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
|   | e L               |        | 15   | 28  | 13   | 8     | 16,0   |      | 17   | 19    | 15,5 | 16    | 18   | 15    | 51   |    |           |       | 15   | 51 | 15 | 34    |
|   | M <sub>1</sub>    |        | 16,5 |     | 13   | 18    | 16,5   |      | 13   | 25    | 17,0 | 13    | 27   | 16,3  |      |    | 15        | 34    |      |    | 15 | 34    |
|   | M <sub>2</sub>    |        | 18,0 |     | 10   | 11    | 18,7   |      | 9    | 23    | 19,0 | 11    | 20   | 18    |      |    | 13        | 25    |      |    | 13 | 25    |
|   | M <sub>3</sub>    |        | 20,0 |     | 9    | 5     | 20,0   |      | 9    | 13    |      |       |      |       |      |    |           |       |      |    |    |       |
|   | F <sub>3</sub>    | 23     | 50   |     |      |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
| Herd: Europ. Nordmeer $\Delta$ : 2150 km. |                   |        |      |     |      |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
| 12.VI.                                    | ? e P             | 12     | 03   | 30  | 6    | 1     |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
|   | e S               |        | 12   | 46  | 17   | 1     |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
|   | e L               |        | 20,2 |     |      |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
|   | M                 |        | 51,5 |     |      |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
|   | F                 | 13     | 07,5 |     |      |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
| 13.VI.                                    | e P <sub>I</sub>  | 00     | 24   | 13  | 10   | 1     | 24     | 14   | 6    | 2     | 24   | 14    |      |       | 24   | 14 |           |       | 24   | 14 |    |       |
|   | e <sub>I</sub>    |        | 26   | 14  |      |       | 26     | 14   | 4    | 1     | 26   | 10    | 3    | 3     | 26   | 12 |           |       | 26   | 12 |    |       |
|   | e S <sub>I</sub>  |        | 33   | 50  |      |       | 34     | 02   |      |       |      |       |      |       | 33   | 59 | 6         | 1     | 33   | 59 | 6  | 1     |
|   | m                 |        | 34   | 16  | 15   | 4     | 34     | 19   |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
|   | e P <sub>II</sub> |        |      |     |      |       |        |      |      |       | 37   | 45    |      |       | 37   | 48 |           |       | 37   | 48 |    |       |
|   | m                 |        |      |     |      |       |        |      |      |       | 37   | 53    |      |       | 37   | 59 | 7         | 5     | 37   | 59 | 7  | 5     |
|   | e S <sub>II</sub> |        |      |     |      |       |        |      |      |       |      |       |      |       | 47   | 40 | 6         | 2     | 47   | 40 | 6  | 2     |
|   | m                 |        | 48,0 | 15  | 3    |       |        |      |      |       |      |       |      |       | 48   | 11 | 4         | 1     | 48   | 11 | 4  | 1     |
|   | e L               |        | 53,4 | 26  | 120  | 49,5  |        |      |      |       | 55,5 |       |      |       | 54,5 | 31 |           |       | 54,5 | 31 |    |       |
|   | M <sub>1</sub>    |        | 59,0 | 16  | 27   | 54,0  | 30     | 83   | 59,5 | 25    | 67   | 59,0  | 18   | 43    | 59,0 | 18 | 43        |       | 59,0 | 18 | 43 |       |
| M <sub>2</sub>                            | 01                | 02,5   | 17   | 50  | 07   | 39    | 420    | 03,0 | 13   | 47    | 02,0 | 17    | 37   | 02,0  | 17   | 37 |           | 02,0  | 17   | 37 |    |       |
| M <sub>3</sub>                            |                   | 13,5   | 19   | 120 | 12,5 | 18    | 130    | 12,5 | 18   | 87    | 13,5 | 18    | 71   | 13,5  | 18   | 71 |           | 13,5  | 18   | 71 |    |       |
| F <sub>3</sub>                            | 03                | 25     |      |     |      |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
| Zwei Beben ! $\Delta$ : 8550 km.          |                   |        |      |     |      |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
| 13.VI.                                    | e P               | 09     | 38,5 |     |      |       | 38,5   |      |      |       |      |       |      | 38    | 24   |    |           | 38    | 24   |    |    |       |
|   | e S               |        | 42   | 29  | 15   | 2     | 42     | 30   | 12   | 1     |      |       |      | 42    | 28   |    |           | 42    | 28   |    |    |       |
|   | e L               |        | 49   | 04  |      |       | 49     | 26   |      |       |      |       |      | 49    | 18   | 6  | 2         | 49    | 18   | 6  | 2  |       |
|   | m                 |        | 49,5 |     |      |       | 49,5   |      |      |       |      |       |      | 49,5  | 6    | 2  |           | 49,5  | 6    | 2  |    |       |
|   | e L               | 10     | 57,1 | 26  | 50   | 57,0  | 32     | 19   |      |       | 14,0 |       |      | 14,0  |      |    |           | 14,0  |      |    |    |       |
|   | M <sub>1</sub>    |        |      |     |      |       | 20,5   | 14   | 30   |       | 20,4 | 17    | 62   | 20,4  | 17   | 62 |           | 20,4  | 17   | 62 |    |       |
| M <sub>2</sub>                            |                   | 23,2   | 19   | 100 | 23,0 | 16    | 4      |      |      | 22,5  | 20   | 62    | 22,5 | 20    | 62   |    | 22,5      | 20    | 62   |    |    |       |
| M <sub>3</sub>                            |                   | 26,5   | 16   | 140 | 27,0 | 16    | 7      |      |      | 27,0  | 18   |       | 27,0 | 18    |      |    | 27,0      | 18    |      |    |    |       |
| F <sub>3</sub>                            | 13                | 09     |      |     |      |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
| 13.VI.                                    | e L               | 20     | 40,5 |     |      |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
|   | M                 |        | 44,0 | 22  | 6    |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
|   | F                 | 21     | 12,5 |     |      |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
| 13.VI.                                    | e P               | 23     | 25   | 46  | 9    | 1     |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
|   | e S               |        | 37,3 | 16  | 2    |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
|   | e L               | 00     | 54,3 | 26  | 8    |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
|   | M                 |        | 55,5 | 19  | 8    |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |
|   | F                 | 01     | 50,5 |     |      |       |        |      |      |       |      |       |      |       |      |    |           |       |      |    |    |       |

| Dat.   | Ph.                                | MGZ NS |                                |    | T   | A     | MGZ EW |     |   | T | A | MGZ Z |    |     | T     | A  | MGZ II.NS |   |   | T | A |   |
|--------|------------------------------------|--------|--------------------------------|----|-----|-------|--------|-----|---|---|---|-------|----|-----|-------|----|-----------|---|---|---|---|---|
|        |                                    | h      | m                              | s  |     |       | m      | s   | m |   |   | s     | m  | s   |       |    | m         | s | m |   |   | s |
| 16.VI. | e P                                | 23     |                                |    |     |       |        |     |   |   |   | 07 35 |    |     |       |    |           |   |   |   |   |   |
|        | m                                  |        |                                |    |     |       |        |     |   |   |   | 07,7  | 5  | 2   |       |    |           |   |   |   |   |   |
|        | i P'                               | 23     | 08 40                          | 7  | 4   | 08 39 |        |     |   |   |   | 08 41 | 4  | 1   | 08 44 |    |           |   |   |   |   |   |
|        | i PR <sub>1</sub>                  |        | 12 30                          | 14 | 11  | 12 27 | 14     | 23  |   |   |   | 12 25 | 10 | 44  |       |    |           |   |   |   |   |   |
|        | e PR <sub>2</sub>                  |        |                                |    |     | 16 08 | 13     | 4   |   |   |   | 16 04 | 10 |     |       |    |           |   |   |   |   |   |
|        | e                                  |        |                                |    |     | 18 38 | 15     | 11  |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | i S <sub>c</sub> P <sub>c</sub> SP |        | 22 51                          |    |     | 22 49 |        |     |   |   |   |       |    |     | 22 49 |    |           |   |   |   |   |   |
|        | i PSS                              |        |                                |    |     | 33,6  |        |     |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | i SR <sub>2</sub>                  |        | 39 40                          | 23 | 130 | 39,9  |        |     |   |   |   |       |    |     | 39,6  | 30 | 60        |   |   |   |   |   |
|        | m                                  |        | 40,2                           | 26 | 180 | 40,6  | 32     | 390 |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | e L                                |        | 54,6                           |    |     | 54,6  |        |     |   |   |   |       |    |     | 56,6  |    |           |   |   |   |   |   |
| 17.VI. | M <sub>1</sub>                     | 00     | 12,6                           | 17 | 61  |       |        |     |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | M <sub>2</sub>                     |        | 19,6                           | 25 | 220 | 22,6  |        |     |   |   |   | 20,0  | 26 | 320 |       |    |           |   |   |   |   |   |
|        | M <sub>3</sub>                     |        | 29,7                           | 20 | 100 |       |        |     |   |   |   | 25,7  | 16 | 130 | 36    | 19 | 90        |   |   |   |   |   |
|        | F <sub>3</sub>                     | 01,2   |                                |    |     |       |        |     |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
| 17.VI. | e P'                               | 23     | 08,1 <sup>?</sup>              |    |     | 07 47 | 3      | 1   |   |   |   | 07 24 | 2  | 1   | 07 31 | 1  |           |   |   |   |   |   |
|        | e P                                |        | 08 37                          |    |     | 08 37 |        |     |   |   |   | 08 43 | 4  | 10  | 08 31 |    |           |   |   |   |   |   |
|        | e                                  |        |                                |    |     |       |        |     |   |   |   |       |    |     | 08 44 |    |           |   |   |   |   |   |
|        | e                                  |        |                                |    |     |       |        |     |   |   |   |       |    |     | 10 37 |    |           |   |   |   |   |   |
|        | e PR <sub>1</sub>                  |        | 12 26                          | 13 | 12  | 12 18 | 17     | 15  |   |   |   | 12 18 | 18 | 220 | 12 19 | 9  | 3         |   |   |   |   |   |
|        | m                                  |        |                                |    |     |       |        |     |   |   |   | 12,5  | 18 |     | 12,6  |    |           |   |   |   |   |   |
|        | e                                  |        | 15 46                          | 22 | 110 | 15,1  | 8      | 4   |   |   |   | 15,5  | 11 | 14  | 15 01 | 4  | 1         |   |   |   |   |   |
|        | e                                  |        |                                |    |     | 18,6  | 17     | 20  |   |   |   | 18,6  |    |     |       |    |           |   |   |   |   |   |
|        | i                                  |        | 22 33                          |    |     | 22 27 |        |     |   |   |   |       |    |     | 22 48 |    |           |   |   |   |   |   |
|        | m                                  |        | 22,9                           |    |     | 22 53 | 20     | 60  |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | i                                  |        | 39,6                           |    |     | 39,6  | 27     | 180 |   |   |   |       |    |     | 39,6  |    |           |   |   |   |   |   |
|        | m                                  |        | 40,2                           | 31 | 270 | 40,4  | 32     | 470 |   |   |   |       |    |     | 40,3  | 32 | 170       |   |   |   |   |   |
|        | e                                  |        | 44,1                           | 18 | 36  | 44,1  | 34     | 240 |   |   |   |       |    |     | 44,1  | 24 | 50        |   |   |   |   |   |
|        | e L <sub>1</sub>                   |        | 57,1                           | 88 |     | 57,6  | 75     |     |   |   |   |       |    |     | 56 25 |    |           |   |   |   |   |   |
|        | e L <sub>2</sub>                   | 00     | 08,6                           | 14 | 21  | 00,6  | 47     | 240 |   |   |   | 06,1  | 85 |     |       |    |           |   |   |   |   |   |
|        | M <sub>1</sub>                     |        | 12,6                           | 19 | 80  | 09,1  |        |     |   |   |   |       |    |     | 09,1  | 21 | 40        |   |   |   |   |   |
|        | M <sub>2</sub>                     |        | 20,0                           | 23 | 180 | 22,6  | 22     | 190 |   |   |   | 19,8  | 26 | 290 | 19,6  | 23 | 150       |   |   |   |   |   |
|        | M <sub>3</sub>                     |        |                                |    |     | 28,0  | 17     | 80  |   |   |   | 28,1  | 21 | 150 | 28,4  | 18 | 150       |   |   |   |   |   |
|        | M <sub>4</sub>                     |        | 29,8                           | 19 | 100 | 30,0  | 17     | 100 |   |   |   | 30,1  | 19 | 130 | 30,1  | 20 | 70        |   |   |   |   |   |
|        | M <sub>5</sub>                     |        | 36,1                           | 16 | 66  |       |        |     |   |   |   | 34,6  | 15 | 140 | 36,1  | 17 | 60        |   |   |   |   |   |
|        | M <sub>6</sub>                     |        | 39,0                           | 17 | 95  |       |        |     |   |   |   |       |    |     | 39,1  | 18 | 80        |   |   |   |   |   |
|        | F <sub>6</sub>                     | 03     | 39                             |    |     |       |        |     |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        |                                    |        | Es folgen noch mehrere Maxima. |    |     |       |        |     |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
| 17.VI. | e L                                | 10     | 41,6                           |    |     |       |        |     |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | e L                                | 11     | 09,6                           | 25 | 7   |       |        |     |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | M <sub>1</sub>                     |        | 11,6                           | 20 | 4   |       |        |     |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | M <sub>2</sub>                     |        | 19,6                           |    |     |       |        |     |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
| 19.VI. | e P                                | 07     | 50,7                           |    |     |       |        |     |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | e S                                |        | 58,7                           | 7  | 1   | 58,7  |        |     |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | e L                                | 08     | 24 25                          | 24 | 7   | 24,0  | 25     | 5   |   |   |   | 30,3  |    |     |       |    |           |   |   |   |   |   |
|        | M <sub>1</sub>                     |        |                                |    |     | 26,7  | 22     | 10  |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | M <sub>2</sub>                     |        |                                |    |     | 30,7  | 19     | 7   |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | M <sub>3</sub>                     |        |                                |    |     | 33,7  | 13     | 3   |   |   |   |       |    |     |       |    |           |   |   |   |   |   |
|        | F <sub>3</sub>                     | 09     | 22,7                           |    |     |       |        |     |   |   |   |       |    |     |       |    |           |   |   |   |   |   |

Beben in der Z-Komp. nur sehr schwach aufgeze.  
Es folgen noch mehrere kleine Maxima.

| Dat.   | Ph.               | MGZ<br>NS                      | T  | A     | MGZ<br>EW | T  | A     | MGZ<br>Z | T  | A     | MGZ<br>II.NS | T  | A     |
|--------|-------------------|--------------------------------|----|-------|-----------|----|-------|----------|----|-------|--------------|----|-------|
|        |                   | h m s                          | s  | $\mu$ | m s       | s  | $\mu$ | m s      | s  | $\mu$ | m s          | s  | $\mu$ |
| 22.VI. | e L               | 16 58,8                        |    |       |           |    |       |          |    |       |              |    |       |
|        | M <sub>1</sub>    | 17 08,3                        | 19 | 4     |           |    |       |          |    |       |              |    |       |
|        | M <sub>2</sub>    | 13,8                           | 20 | 4     |           |    |       |          |    |       |              |    |       |
|        | F <sup>2</sup>    | 39,8                           |    |       |           |    |       |          |    |       |              |    |       |
| 27.VI. | e P               | 13 01 52                       | 13 |       | 01 53     |    |       | 01 50    |    |       |              |    |       |
|        | e PR <sub>1</sub> | 06 28                          |    |       | 06 28     |    |       | 05 08    | 4  | 1     |              |    |       |
|        | m <sub>1</sub>    | 07,3                           |    |       | 07,2      | 13 | 7     | 06 24    | 5  | 7     | 06 22        | 5  | 1     |
|        | i                 | 15 03                          | 20 | 50    | 16 15     | 15 | 50    | 16 23    | 10 | 50    | 16 23        | 11 | 30    |
|        | m                 | 15,5                           | 11 | 60    |           |    |       |          |    |       |              |    |       |
|        | e L               | 40,2                           | 51 | 920   | 32,4      | 44 | 510   | 40,2     | 47 |       | 33,4         | 41 | 170   |
|        | M <sub>1</sub>    |                                |    |       | 34,9      | 64 |       |          |    |       | 35,9         | 40 | 350   |
|        | M <sub>2</sub>    | 40,9                           |    |       |           |    |       | 41,1     | 47 |       | 41,1         | 41 | 530   |
|        | M <sub>3</sub>    | 51,9                           | 16 | 190   | 52,7      | 16 | 180   | 51,9     | 17 | 400   | 51,9         | 18 | 310   |
|        | M <sub>4</sub>    | 54,4                           | 18 | 140   | 57,4      | 16 | 70    | 57,4     | 16 | 120   | 57,3         | 16 | 80    |
|        | F <sup>4</sup>    | 17,0                           |    |       |           |    |       |          |    |       |              |    |       |
|        |                   | Es folgen noch mehrere Maxima. |    |       |           |    |       |          |    |       |              |    |       |
| 30.VI. | e P               | 03 10,0                        | 9  | 1     | 09 16     |    |       |          |    |       |              |    |       |
|        | e S               | 18,5                           |    |       | 18,5      |    |       |          |    |       |              |    |       |
|        | e L               | 38                             | 21 | 5     | 39        | 25 | 8     |          |    |       |              |    |       |
|        | M <sub>1</sub>    | 40,5                           | 21 | 9     | 40,5      | 19 | 8     |          |    |       |              |    |       |
|        | M <sub>2</sub>    | 43,5                           | 19 | 4     | 43,1      | 13 | 5     |          |    |       |              |    |       |
|        | M <sub>3</sub>    | 47,0                           | 18 | 6     | 48,0      | 19 | 6     |          |    |       |              |    |       |
|        | F <sup>3</sup>    | 04,5                           |    |       |           |    |       |          |    |       |              |    |       |
| 3.VII. | e                 | 08 32,5                        |    |       | 32        |    |       |          |    |       |              |    |       |
|        | F                 | 09 16,0                        |    |       |           |    |       |          |    |       |              |    |       |
|        |                   | Spuren langer Wellen.          |    |       |           |    |       |          |    |       |              |    |       |
| 4.VII. | e                 | 07                             |    |       | 23,8      | 6  | 1     |          |    |       |              |    |       |
|        | e L               |                                |    |       | 27 02     | 20 | 2     |          |    |       |              |    |       |
|        | M                 |                                |    |       | 29,5      | 17 | 2     |          |    |       |              |    |       |
|        | F                 | 07 59                          |    |       |           |    |       |          |    |       |              |    |       |
| 5.VII. | e P               | 14 30 59                       |    |       | 30 58     |    |       | 31 00    |    |       |              |    |       |
|        | e S               | 41 04                          |    |       | 40 49     |    |       | 41,0     |    |       |              |    |       |
|        | i SR <sub>1</sub> | 46,1                           | 25 | 40    | 46 04     | 31 | 30    |          |    |       |              |    |       |
|        | e                 |                                |    |       |           |    |       | 47,1     |    |       |              |    |       |
|        | e L               | 57 20                          | 35 | 80    | 51,0      | 31 | 18    | 58,1     |    |       |              |    |       |
|        | M <sub>1</sub>    | 15 03,1                        | 34 | 190   | 02,0      | 24 | 62    | 03,0     | 24 | 150   |              |    |       |
|        | M <sub>2</sub>    | 08,3                           | 22 | 120   | 09,6      | 18 | 28    |          |    |       |              |    |       |
|        | M <sub>3</sub>    | 11,1                           | 24 | 110   | 10,8      | 16 | 43    |          |    |       |              |    |       |
|        | F <sup>3</sup>    | 18 40                          |    |       |           |    |       |          |    |       |              |    |       |
| 5.VII. | e P               | 22                             |    |       | 48,1?     |    |       | 48 04    |    |       |              |    |       |
|        | e S               | 22 58 04                       |    |       | 58 04     |    |       |          |    |       |              |    |       |
|        | e SR <sub>1</sub> | 23 03 27                       | 22 | 6     |           |    |       |          |    |       |              |    |       |
|        | e                 | 08 04                          | 19 | 4     |           |    |       |          |    |       |              |    |       |
|        | e L               | 18,6                           |    |       | 12,1      |    |       | 18,8     |    |       |              |    |       |
|        | M <sub>1</sub>    | 22,1                           | 19 | 12    | 21,1      | 22 | 12    |          |    |       |              |    |       |
|        | M <sub>2</sub>    | 30,3                           | 16 | 9     | 28        | 16 | 13    | 30,5     | 18 | 38    |              |    |       |
|        | M <sub>3</sub>    | 32,3                           | 15 | 9     | 32,9      | 16 | 10    | 32,5     | 17 | 34    |              |    |       |
| 6.VII. | F <sup>3</sup>    | 00 29                          |    |       |           |    |       |          |    |       |              |    |       |
|        |                   | $\Delta$ : 8800 km.            |    |       |           |    |       |          |    |       |              |    |       |

| Dat.    | Ph.   | MGZ<br>NS  | T  | A         | MGZ<br>EW                                | T  | A     | MGZ<br>Z  | T  | A     | MGZ<br>II.NS                 | T | A     |
|---------|---|--|----|-----------|--|----|-------|---|----|-------|------------------------------|---|-------|
|         |   | h m s  | s  | $\mu$     | m s                                      | s  | $\mu$ | m s   | s  | $\mu$ | m s                          | s | $\mu$ |
| 6.VII.  | e P<br>e S<br>eSR <sub>1</sub><br>e L <sub>1</sub><br>M<br>F  | 02 15 51<br>25,5<br>31 04<br>39,5<br>43,6<br>03 31                                       | 30 | 18        | 25,5<br>37,1                             |    |       |   |    |       |                              |   |       |
|         |   | $\Delta$ : 8300 km.  |    |           |  |    |       |   |    |       |                              |   |       |
| 6.VII.  | e P<br>e S<br>e L<br>M <sub>1</sub><br>M <sub>2</sub><br>F <sup>2</sup>   | 09<br>10 04 17<br>13 36<br>14,1<br>16,1<br>12 00   | 13 | 2         | 56 09<br>04 17<br>14 19                  |    |       | 56 11<br>14,4   | 12 | 9     |                              |   |       |
|         |   | $\Delta$ : 6600 km.  |    |           |  |    |       |   |    |       |                              |   |       |
| 7.VII.  | i P<br>i S<br>i<br>iSR <sub>1</sub><br>eSR <sub>2</sub><br>e L <sub>2</sub><br>M <sub>1</sub><br>M <sub>2</sub><br>M <sub>3</sub><br>F <sup>3</sup> | 21 35 07<br>45 07<br>45 42<br>45 51<br>50 21<br>54 07<br>22 00 26<br>03<br>07,5<br>01 28 | 25 | 200<br>20 | 35 17<br>56<br>03,5<br>06,7<br>14,0      |    |       | 35 07<br>45 40<br>150 02 07<br>150 03<br>110 06,5<br>14,0 | 18 | 50    | 33<br>26<br>19 160<br>20 140 |   |       |
|         |   | $\Delta$ : 8400 km.  |    |           |  |    |       |   |    |       |                              |   |       |
| 13.VII. | e L<br>M<br>F   | 07 50,8<br>56 34<br>08 03,3<br>08 23   | 25 | 7         | 51,3?<br>59,3<br>06,3                    | 19 | 3     |   |    |       |                              |   |       |
| 13.VII. | e<br>i<br>M<br>F  | 12 56,1<br>56 22<br>12 58  |    |           | 56 03<br>56,3                            |    |       |   |    |       |                              |   |       |
| 13.VII. | e L<br>M<br>F   | 15 53 16<br>56,8<br>58,3<br>16 10  | 22 | 3         | 53 16<br>55,6                            |    |       |   |    |       |                              |   |       |
| 14.VII. | e P<br>i P<br>e S<br>e L<br>M <sub>1</sub><br>M <sub>2</sub><br>F <sup>2</sup>  | 09 47 42<br>57 09<br>10 06 17<br>15,8<br>17,0<br>24,3<br>11 20                           | 25 | 32        | 47 46<br>57 07<br>06 38<br>10 58<br>17,0 | 24 | 44    |   |    |       |                              |   |       |
|         |   | $\Delta$ : 8200 km.  |    |           |  |    |       |   |    |       |                              |   |       |



| Dat.                     | Ph.              | MGZ NS |      |    | T  | A    | MGZ EW |    |    | T    | A    | MGZ Z |    |      | T  | A | MGZ II.NS |   |   | T  | A  |   |   |
|--------------------------|------------------|--------|------|----|----|------|--------|----|----|------|------|-------|----|------|----|---|-----------|---|---|----|----|---|---|
|                          |                  | h      | m    | s  |    |      | m      | s  | m  |      |      | s     | m  | s    |    |   | m         | s | s |    |    | μ | m |
| 15.VII.                  | e P              | 07     |      |    |    |      | 51     | 05 |    |      |      | 51    | 00 |      |    |   |           |   |   |    |    |   |   |
|                          | i S              | 07     | 56   | 32 |    |      | 56     | 31 |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | m <sub>1</sub>   |        |      |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | e L <sub>2</sub> | 08     | 03,3 |    |    |      | 03,3   |    | 25 | 6    | 08,3 | 13    | 16 |      |    |   |           |   |   |    | 5  | 3 |   |
| M                        |                  | 08,3   |      | 13 | 7  | 08,4 |        | 13 | 11 |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| F                        |                  | 08     | 46   |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| Δ: 3800 km.              |                  |        |      |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| 15.VII.                  | e M              | 22     | 51   |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          |                  |        | 51,8 |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| 18.VII.                  | e F              | 21     |      |    |    |      | 26,2   |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          |                  |        |      |    |    |      | 30     |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| 23.VII.                  | e P              | 18     | 47   | 53 |    |      |        |    |    |      |      | 47    | 52 |      |    |   |           |   |   |    |    |   |   |
|                          | i P              | 18     |      |    |    |      | 47     | 53 |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | m                |        |      |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | e S              |        |      |    |    |      | 51     | 50 |    |      |      | 47    | 57 |      |    |   |           |   |   |    |    |   |   |
|                          | m                |        |      |    |    |      | 52     | 05 | 7  | 11   |      | 51    | 55 |      |    |   |           |   |   |    |    |   |   |
|                          | i S              |        | 51   | 55 | 7  | 3    |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | e L              |        | 53   | 34 | 31 | 37   | 53,1   |    | 31 | 27   | 53   | 34    |    |      |    |   |           |   |   |    |    |   |   |
| M <sub>1</sub>           |                  | 58,7   |      | 11 | 20 | 58,8 |        | 13 | 65 | 58   | 34   | 12    | 52 | 51   | 54 |   |           |   |   | 12 | 33 |   |   |
| M <sub>2</sub>           | 19               | 01,0   |      | 10 | 20 | 01,0 |        | 10 |    | 01,0 |      |       |    | 01,0 |    |   |           |   |   | 10 | 26 |   |   |
| M <sub>3</sub>           |                  | 01,8   |      | 11 | 14 | 02,1 |        | 14 |    |      |      |       |    | 02,6 |    |   |           |   |   | 11 | 21 |   |   |
| F                        | 20               | 50     |      |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| Herd: Island Δ: 2450 km. |                  |        |      |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| 26.VII.                  | e                | 23     |      |    |    |      | 33,7   |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | e                | 23     | 36,2 |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | e                |        | 39   | 24 | 13 | 1    |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | e L              |        |      |    |    |      | 41     | 40 |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| M                        |                  |        |      |    |    | 42,7 |        | 19 | 5  |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| F                        | 23               | 58,7   |      |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| 3.VIII.                  |                  | 19     | 26,9 |    |    |      | 26,9   |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          |                  | 20     | 04,9 |    |    |      | 16,9   |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | M                | 19     | 33   |    | 14 | 3    | 37     |    | 15 | 1    |      |       |    |      |    |   |           |   |   |    |    |   |   |
| 4.VIII.                  | e P              | 09     | 12   | 39 |    |      | 12     | 38 |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | e L              |        | 15   | 36 |    |      | 15     | 51 |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | M                |        | 16   |    | 15 | 2    | 16     |    | 15 | 2    |      |       |    |      |    |   |           |   |   |    |    |   |   |
| F                        | 09               | 22     |      |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| 6.VIII.                  | e P              | 01     | 38   | 19 | 7  |      | 38     | 10 | 7  | 1    |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | e L              |        | 43   | 20 |    |      | 43     | 21 | 15 | 2    |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | M                |        | 44   |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| F                        | 02               | 03     |      |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| 8.VIII.                  | e P              | 13     | 16   | 59 |    |      | 16     | 59 |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | e S              |        | 35   | 43 | 36 | 18   |        |    | 22 | 8    |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | e                |        |      |    |    |      | 35     | 52 | 34 | 15   |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | e L              |        | 38   | 33 | 22 | 31   | 41     | 18 | 25 | 28   |      |       |    |      |    |   |           |   |   |    |    |   |   |
|                          | M                |        | 42   |    |    |      | 39     |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| F                        | 14.              | 38     |      |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |
| Δ: 7500 km.              |                  |        |      |    |    |      |        |    |    |      |      |       |    |      |    |   |           |   |   |    |    |   |   |

| Dat.     | PH.            | MGZ NS  |      |     | T  | A  | MGZ EW |    |    | T  | A  | MGZ Z |   |  | T | A | MGZ II.NS |  |   | T | A |  |
|----------|----------------|---------|------|-----|----|----|--------|----|----|----|----|-------|---|--|---|---|-----------|--|---|---|---|--|
|          |                | h       | m    | s   | s  |    | m      | s  | s  |    | m  | s     | s |  | m | s | s         |  | m | s | s |  |
| 14.VIII. |                | 06      | 54   | bis |    |    |        |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M              | 07      | 09   |     |    |    |        |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          |                | 06      | 55   |     |    |    |        |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
| 15.VIII. | e P            | 20      |      |     |    |    | 40     | 44 | 6  | 1  |    |       |   |  |   |   |           |  |   |   |   |  |
|          | e L            | 21      |      |     |    |    | 00     | 42 | 24 | 5  |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M <sub>1</sub> | 21      |      |     |    |    | 01,2   |    | 19 | 3  |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M <sub>2</sub> |         |      |     |    |    | 03,7   |    | 22 | 4  |    |       |   |  |   |   |           |  |   |   |   |  |
|          | F <sup>2</sup> | 21      |      |     |    |    | 27,2   |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
| 17.VIII. | e              | 23      |      |     |    |    | 53     | 46 |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | e              | 23      | 55   | 37  |    |    |        |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
| 18.VIII. | e              | 00      |      |     |    |    | 04     | 15 | 14 | 2  |    |       |   |  |   |   |           |  |   |   |   |  |
|          | e L            |         | 27   | 53  | 19 | 4  | 28     | 15 | 25 | 8  |    |       |   |  |   |   |           |  |   |   |   |  |
|          | i              |         | 37   | 54  |    |    | 38     | 15 |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M              |         | 39,7 |     | 16 |    | 39,7   |    | 18 | 13 |    |       |   |  |   |   |           |  |   |   |   |  |
|          | F              | 00      | 57   |     |    |    |        |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
| 19.VIII. | e P            |         |      |     |    |    |        |    |    | 55 | 36 |       |   |  |   |   |           |  |   |   |   |  |
|          | e SS           | 03      | 06   | 54  |    |    | 06     | 54 |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | e L            |         | 25   | 49  | 38 | 22 | 26     | 06 | 38 | 6  | 27 | 16    |   |  |   |   |           |  |   |   |   |  |
|          | M <sub>1</sub> |         | 30,3 |     | 18 | 37 | 31,0   |    | 21 |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | i              |         | 37   | 34  |    |    | 37     | 34 |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M <sub>2</sub> |         | 37   | 51  |    |    | 37     | 54 | 15 | 53 |    |       |   |  |   |   |           |  |   |   |   |  |
|          | i              |         | 38   | 44  |    |    | 38     | 37 | 15 | 25 |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M <sub>3</sub> |         |      |     |    |    | 43,5   |    | 14 | 18 |    |       |   |  |   |   |           |  |   |   |   |  |
|          | F <sup>3</sup> | 04      | 17   |     |    |    |        |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
| 19.VIII. | e P            | 20      |      |     |    |    | 48,8   |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | e S            | 21      | 07,8 |     |    |    | 07,8   |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | e L            |         | 29   | 30  |    |    | 29     | 12 | 32 | 9  |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M              |         | 38   | 18  |    |    | 38,3   |    | 12 | 6  |    |       |   |  |   |   |           |  |   |   |   |  |
|          | F              | 21      | 50,3 |     |    |    |        |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
| 20.VIII. | e L            | 17      |      |     |    |    | 21     | 35 |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M <sub>1</sub> |         |      |     |    |    | 24,0   |    | 22 | 10 |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M <sub>2</sub> |         |      |     |    |    | 31     | 49 | 16 | 8  |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M <sub>3</sub> |         |      |     |    |    | 33,0   |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | F <sup>3</sup> | 17      | 54   |     |    |    |        |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
| 20.VIII. |                | 18      |      |     |    |    | 18,3   |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          |                |         |      |     |    |    | 22,3   |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
| 28.VIII. | e L            | 19      | 13,5 |     |    |    | 13,9   |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | e              |         | 34,3 |     |    |    | 33,5   |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M <sub>1</sub> |         | 37,0 | 22  | 11 |    | 36,0   |    | 25 | 19 |    |       |   |  |   |   |           |  |   |   |   |  |
|          | e              |         |      |     |    |    | 36     | 44 |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M <sub>2</sub> |         |      |     |    |    | 37,5   |    | 22 | 31 |    |       |   |  |   |   |           |  |   |   |   |  |
|          | e              |         | 41   | 58  |    |    | 39     | 59 |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M <sub>3</sub> |         | 42,5 |     |    |    | 40     | 01 | 18 | 13 |    |       |   |  |   |   |           |  |   |   |   |  |
|          | F <sup>3</sup> | 20      | 46,5 |     |    |    |        |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
| 29.VIII. | e              | 20,32,5 |      |     |    |    | 31,5   |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |
|          | e              |         |      |     |    |    | 40     | 30 | 16 | 2  |    |       |   |  |   |   |           |  |   |   |   |  |
|          | M              |         | 40,8 | 16  | 2  |    | 40,8   |    | 16 | 2  |    |       |   |  |   |   |           |  |   |   |   |  |
|          | F              | 20      | 50,5 |     |    |    |        |    |    |    |    |       |   |  |   |   |           |  |   |   |   |  |

| Dat.   | Ph.   | MGZ NS                            |      |                        | T        | A      | MGZ EW   |                 |    | T    | A  | MGZ Z |    |    | T    | A  | MGZ II.NS |   |  | T | A |
|--------|---|-----------------------------------|------|------------------------|----------|--------|----------|-----------------|----|------|----|-------|----|----|------|----|-----------|---|--|---|---|
|        |   | h                                 | m    | s                      |          |        | m        | s               | m  |      |    | s     | m  | s  |      |    | m         | s |  |   |   |
| 2.IX.  |   | 12                                | 01   | bis<br>02              | 24       | 10     | 01       | bis<br>02       | 21 | 11   |    |       |    |    |      |    |           |   |  |   |   |
| 3.IX.  |   | 12                                | 14,7 | bis<br>49,7            | 20       | 4      | 14,7     | bis<br>51,7     | 20 | 10   |    |       |    |    |      |    |           |   |  |   |   |
| 4.IX.  |   | 22                                | 46   | bis<br>23 02           |          |        | 46       | bis<br>02       |    |      |    |       |    |    |      |    |           |   |  |   |   |
| 17.IX. | e P<br>e L<br>M F   | 19                                | 39   |                        |          |        | 19       | 39              |    |      |    | 01    | 30 | 17 | 10   |    |           |   |  |   |   |
|        |   | 20                                | 00   | 52                     |          |        | 01       | 46              |    |      |    | 06    |    | 14 | 30   |    |           |   |  |   |   |
|        |   |                                   | 03   |                        | 17       | 14     | 03       | 13              | 14 | 23   |    |       |    |    |      |    |           |   |  |   |   |
|        |   | 21                                | 02   |                        |          |        |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
| 27.IX. | M   | 23                                | 57   | bis<br>00 18<br>00 03  | 15       |        | 58       | bis<br>19<br>09 |    |      |    |       |    |    |      |    |           |   |  |   |   |
| 5.X.   | e L<br>M<br>F   | 17                                | 36   | 01<br>47<br>18 06      | 25       | 24     |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
| 6.X.   | e<br>M<br>F   | 08                                | 19   | 54<br>09 01,5<br>09 36 | 10<br>18 | 1<br>7 | 25<br>09 | 23<br>23        | 15 | 8    |    |       |    |    |      |    |           |   |  |   |   |
| 8.X.   | e L<br>M<br>F   | 18                                | 35   | 49<br>19 09            | 26<br>22 | 4<br>6 |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
| 12.X.  | i<br>F  | 09                                |      |                        |          |        |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
|        |   | 10                                |      |                        |          |        |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
|        |   | 10                                |      |                        |          |        |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
|        |   | Kurzperiod. seism. Unruhe         |      |                        |          |        |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
| 14.X.  | e<br>F  | 10                                | 30,6 |                        | 20       | 4      | 10,5     |                 | 20 | 5    |    |       |    |    |      |    |           |   |  |   |   |
|        |   | 11                                | 11   |                        |          |        | 11       | 11              |    |      |    |       |    |    |      |    |           |   |  |   |   |
|        |   | Lange Wellen.                     |      |                        |          |        |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
| 16.X.  | e<br>L<br>M<br>F  | 20                                | 56,3 |                        |          |        |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
|        |   | 21                                | 04,7 |                        | 30       | 12     |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
|        |   |                                   | 06,5 |                        |          |        |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
|        |   | 21,5                              |      |                        |          |        |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
| 19.X.  | e P<br>i PR <sub>1</sub><br>e<br>i S <sub>c</sub> P <sub>c</sub> S<br>m<br>i<br>e SR <sub>1</sub><br>m<br>e L<br>M <sub>1</sub><br>M <sub>2</sub><br>F <sup>2</sup> | 10                                |      |                        |          |        |          |                 |    |      |    | 26    | 38 | 4  | 1    | 26 | 37        |   |  |   |   |
|        |   |                                   |      |                        |          |        |          |                 |    |      |    | 30    | 43 | 5  | 8    |    |           |   |  |   |   |
|        |   | 10                                | 37   | 10                     | 25       | 12     | 37       | 10              |    |      |    |       |    |    |      | 30 | 48        |   |  |   |   |
|        |   |                                   | 38,2 |                        |          |        | 37       | 18              | 26 | 72   |    |       |    |    | 37   | 20 | 5         | 2 |  |   |   |
|        |   |                                   |      |                        |          |        | 38       | 02              | 15 | 19   |    |       |    |    | 38   | 00 |           |   |  |   |   |
|        |   | 45                                | 00   |                        |          |        | 45       | 05              |    |      |    |       |    |    | 45   | 05 |           |   |  |   |   |
|        |   | 45                                | 10   | 12                     | 4        | 4      | 45       | 28              | 15 | 10   |    |       |    |    | 45   | 08 | 10        | 6 |  |   |   |
|        |   | 50,7                              | 30   | 18                     | 18       | 18     | 52,7     |                 |    |      |    |       |    |    | 53,7 | 25 | 28        |   |  |   |   |
|        |   | 56,9                              | 30   | 24                     | 24       | 24     |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
|        |   | 11                                |      |                        |          |        | 11,0     | 20              | 34 | 08,6 | 22 | 73    |    |    |      |    |           |   |  |   |   |
|        |   | 11,5                              |      |                        |          |        |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |
|        |   | Herd: Chile $\Delta$ : 11 150 km. |      |                        |          |        |          |                 |    |      |    |       |    |    |      |    |           |   |  |   |   |

| Dat.   | Ph.  | MGZ NS |      |    |    | MGZ EW |   |    |    | MGZ Z |       |    |    | MGZ II.NS |      |    |    |     |
|--------|--|--------|------|----|----|--------|---|----|----|-------|-------|----|----|-----------|------|----|----|-----|
|        |  | h      | m    | s  | s  | μ      | m   | s  | s  | μ     | m     | s  | s  | μ         | m    | s  | s  | μ   |
| 24.X.  | e<br>i<br>M<br>F   | 07     | 16   | 17 | 36 | 8      |   |    |    |       |       |    |    |           |      |    |    |     |
|        |  |        | 19   | 53 |    |        |   |    |    |       |       |    |    |           |      |    |    |     |
|        |  | 26,8   |      |    | 15 | 7      |   |    |    |       |       |    |    |           |      |    |    |     |
|        |  | 41     |      |    |    |        |   |    |    |       |       |    |    |           |      |    |    |     |
| 1.XI.  | i P<br>e<br>i<br>i<br>M<br>F   | 07     | 00   | 15 |    |        | 00  | 14 |    |       | 00,11 |    |    | 00        | 14   |    |    |     |
|        |  |        | 02   | 36 | 10 | 1      |   |    |    |       |       |    |    |           |      |    |    |     |
|        |  |        | 03   | 28 |    |        |   |    |    |       |       |    |    |           |      |    |    |     |
|        |  |        | 04   | 36 | 7  | 8      | 04  | 08 |    |       |       |    |    |           |      |    |    |     |
|        |  | 07     | 18   |    |    |        | 05  | 53 | 7  | 14    | 04    | 42 | 4  | 5         | 04   | 35 |    |     |
| 15.XI. | e<br>e<br>e<br>e<br>L<br>M<br>F  | 19     |      |    |    |        |   |    |    |       | 08,5  | 6  | 1  |           |      |    |    |     |
|        |  | 19     | 15,5 |    | 11 | 2      |   |    |    |       |       |    |    |           |      |    |    |     |
|        |  | 19     |      |    |    |        |   |    |    |       |       |    |    |           | 19   | 04 | 9  | 5   |
|        |  |        | 46   | 46 | 25 | 80     |   |    |    |       |       |    |    |           | 46   | 55 | 25 | 71  |
|        |  |        | 48   | 35 | 25 | 140    |   |    |    |       | 55    | 16 | 20 | 885       | 53   | 10 | 28 | 83  |
|        |  |        | 57,5 |    | 16 | 50     |   |    |    |       | 57,5  |    |    |           | 57,5 |    |    |     |
|        |  | 21     | 15   |    |    |        |   |    |    |       |       |    |    |           |      |    |    |     |
|        |  |        |      |    |    |        | Starke Mikroseismik.                      |    |    |       |       |    |    |           |      |    |    |     |
| 17.XI. | e<br>i<br>e<br>L<br>M<br>F   | 04     | 07   | 32 |    |        | 07  | 32 |    |       |       |    |    |           |      |    |    |     |
|        |  |        | 09   | 01 | 10 | 3      |   |    |    |       |       |    |    |           |      |    |    |     |
|        |  |        | 30   | 29 | 56 | 130    |   |    |    |       |       |    |    |           |      |    |    |     |
|        |  |        | 47   |    | 20 | 34     | 47  |    | 21 | 39    |       |    |    |           |      |    |    |     |
|        |  | 06     | 20   |    |    |        |   |    |    |       |       |    |    |           |      |    |    |     |
| 18.XI. | i P<br>e P<br>i<br>i S<br>m<br>i<br>i<br>e L<br>M <sub>1</sub><br>M <sub>2</sub><br>F <sup>2</sup> | 20     |      |    |    |        | 40  | 04 |    |       | 40    | 01 | 2  | 2         |      |    |    |     |
|        |  | 20     | 40   | 04 | 2  | 1      | 40  | 04 |    |       |       |    |    |           | 40   | 04 |    |     |
|        |  |        | 40   | 21 |    |        | 40  | 21 |    |       | 40    | 20 |    |           | 40   | 23 | 1  | 2   |
|        |  |        | 46   | 27 |    |        | 46  | 25 | 14 | 100   | 46    | 31 | 6  | 7         | 46   | 32 |    |     |
|        |  |        |      |    |    |        | 50,1                                      |    | 14 | 95    |       |    |    |           |      |    |    |     |
|        |  |        | 52   | 12 | 18 | 100    | 52  | 18 | 17 | 61    |       |    |    |           | 52   | 12 | 17 | 68  |
|        |  |        | 53   | 11 | 17 | 90     |   |    |    |       |       |    |    |           | 53   | 12 | 17 | 62  |
|        |  |        | 58,6 |    | 17 | 400    | 54  | 19 | 17 | 83    | 55    | 04 | 21 | 230       |      |    |    |     |
|        |  | 21     | 01,6 |    |    |        | 59  |    | 17 | 130   |       |    |    |           | 58,6 |    | 17 | 270 |
|        |  | 23     | 50   |    |    |        | 01,1                                      |    | 14 | 170   | 01,1  |    | 15 | 160       |      |    |    |     |
|        |  |        |      |    |    |        | Herd: Nordatlantik $\Delta$ : 4850 km.    |    |    |       |       |    |    |           |      |    |    |     |
| 23.XI. | e L<br>M<br>F  | 00     | 56,7 |    | 25 | 4      |   |    |    |       |       |    |    |           |      |    |    |     |
|        |  | 01     | 05,2 |    | 15 | 3      |   |    |    |       |       |    |    |           |      |    |    |     |
|        |  | 01     | 26   |    |    |        |   |    |    |       |       |    |    |           |      |    |    |     |
| 6.XII. | e L<br>M<br>F  | 17     | 41   | 57 | 22 | 8      | 42  | 30 | 21 | 5     |       |    |    |           |      |    |    |     |
|        |  |        | 45,5 |    |    |        | 47  |    |    |       |       |    |    |           |      |    |    |     |
|        |  | 18     | 02   |    |    |        |   |    |    |       |       |    |    |           |      |    |    |     |
| 6.XII. | e L<br>M<br>F  | 21     | 17   | 24 | 24 | 7      | 16  |    | 26 | 8     |       |    |    |           |      |    |    |     |
|        |  |        | 20   |    | 24 | 14     | 21  |    |    |       |       |    |    |           |      |    |    |     |
|        |  | 21     | 40   |    |    |        |   |    |    |       |       |    |    |           |      |    |    |     |
| 9.XII. | e L<br>M <sub>1</sub><br>M <sub>2</sub><br>F <sup>2</sup>  | 07     | 33   |    | 30 | 12     | 07  | 32 | 39 | 13    |       |    |    |           |      |    |    |     |
|        |  |        | 41,5 |    | 21 | 19     |   | 41 |    |       |       |    |    |           |      |    |    |     |
|        |  |        | 48   |    |    |        |   | 48 |    |       |       |    |    |           |      |    |    |     |
|        |  | 08     | 21   |    |    |        |   |    |    |       |       |    |    |           |      |    |    |     |
|        |  |        |      |    |    |        | Durch Mikroseismik stark gestörtes Beben. |    |    |       |       |    |    |           |      |    |    |     |

| Dat.                              | Ph.   | MGZ<br>NS   | T              | A           | MGZ<br>EW                     | T              | A                  | MGZ<br>Z    | T        | A | MGZ<br>II.NS                             | T             | A               |
|-----------------------------------|---|---|----------------|-------------|-------------------------------|----------------|--------------------|-------------|----------|---|--|---------------|-----------------|
| 12.XII.                           | e L<br>M<br>F   | h m s<br>08   | s              | <i>u</i>    | m s<br>s                      | <i>u</i>       |                    | m s<br>s    | <i>u</i> |   | m s<br>s                                 | <i>u</i>      |                 |
|                                   |   |   |                |             |                               |                |                    |             |          |   | 24<br>29<br>31,5                         | 4<br>8<br>3   | 1<br>3<br>1     |
| 13.XII.                           | e L<br>M<br>F   | 04  |                |             | 53 06<br>55                   | 26             | 11                 |             |          |   |  |               |                 |
|                                   |   | 05 06   |                |             |                               |                |                    |             |          |   |  |               |                 |
| 15.XII.                           | e L<br>M<br>F   | 01 46,3<br>50,3<br>57   | 15             | 5           |                               |                |                    |             |          |   |  |               |                 |
| 16.XII.                           | L   | 12 27his<br>12 44   | 23             | 6           |                               |                |                    |             |          |   |  |               |                 |
| 17.XII.                           | e P<br>i P<br>i<br>e S<br>e L<br>M <sub>1</sub><br>M <sub>2</sub><br>M <sub>3</sub><br>F <sub>3</sub> | 11<br>11 10 21<br>12 42<br>17 21<br>20 00<br>32,5<br>45 51<br>47,8<br>53,3<br>15 31 | 13<br>12<br>10 | 1<br>5<br>9 | 10 21                         |                |                    | 10 12       |          |   | 10 17                                    |               |                 |
|                                   |   |   |                |             | 19 54<br>28,3<br>43,3<br>48,3 | 35<br>17<br>13 | 1250<br>290<br>250 | 34 16<br>45 |          |   | 19 46<br>33 38<br>42,3<br>53,3           | 7<br>25<br>26 | 1<br>140<br>650 |
| Herd: Aleuten $\Delta$ : 8400 km. |   |   |                |             |                               |                |                    |             |          |   |  |               |                 |
| 18.XII.                           | e L<br>i<br>M<br>F  | 07 43 45<br>52 06<br>52 30<br>09 01 30  | 14             | 2           | 44 00<br>52 11<br>52 22       | 25<br>13       | 5<br>6             |             |          |   |  |               |                 |
| 20.XII.                           | e<br>i<br>M<br>F  | 20  |                |             | 27 11<br>27 25<br>27 29<br>32 | 10             | 7                  |             |          |   |  |               |                 |
| 25.XII.                           | e<br>e<br>i<br>M<br>F   | 05  |                |             |                               |                |                    |             |          |   | 39,5<br>40 36<br>41 10<br>41 18<br>42 06 | 1             |                 |

Anhang:  
Nahbebenschwarm vom 15. Mai.

| Datum          | Phase          | Zeiten M Gr.Z<br>17000 kg. Pendel NS |      |      | Periode<br>T             | Amplitude<br>A           |
|----------------|----------------|--------------------------------------|------|------|--------------------------|--------------------------|
|                |                | h                                    | m    | s    |                          |                          |
| 15.V.          | e              | 08                                   | 46   | 55   | 0.4<br>1.0<br>0.5<br>0.5 | 0.2<br>0.2<br>0.7<br>0.7 |
|                | e              |                                      | 47   | 15   |                          |                          |
|                | m              |                                      |      | 17   |                          |                          |
|                | e              |                                      |      | 21   |                          |                          |
|                | i              |                                      |      | 22   |                          |                          |
|                | M <sub>1</sub> |                                      |      | 25   |                          |                          |
| M <sub>2</sub> |                |                                      | 28   |      |                          |                          |
| F <sup>2</sup> |                |                                      | 48,5 |      |                          |                          |
| 15.V.          | e              | 09                                   | 05   | 22   | 0.4                      | 0.2                      |
|                | m              |                                      | 05   | 23   | 0.5                      | 0.2                      |
|                | F              |                                      |      | 05,7 |                          |                          |
| 15.V.          | e              | 09                                   | 08   | 43   | 0.4                      | 0.2                      |
|                | m              |                                      |      | 46   |                          |                          |
|                | e              |                                      | 09   | 07   |                          |                          |
|                | M              |                                      | 09   | 09   | 0.7                      | 0.4                      |
| F              |                |                                      | 09,5 |      |                          |                          |
| 15.V.          | e              | 09                                   | 46   | 57   | 0.7                      | 0.4                      |
|                | m              |                                      |      | 59   |                          |                          |
|                | F              |                                      |      | 47,3 |                          |                          |
| 15.V.          | e              | 10                                   | 03   | 27   | 0.3                      | 0.2                      |
|                | m              |                                      |      | 29   |                          |                          |
|                | F              |                                      |      | 03,6 |                          |                          |
| 15.V.          | e              | 10                                   | 09   | 36   | 0.4                      | 0.2                      |
|                | e              |                                      | 10   | 02   |                          |                          |
|                | M              |                                      | 10   | 05   |                          |                          |
|                | F              |                                      |      | 10,4 |                          |                          |
| 15.V.          | e              | 10                                   | 42,5 |      | 0.5                      | 0.2                      |
|                | e              |                                      | 42   | 51   |                          |                          |
|                | M              |                                      | 42   | 53   |                          |                          |
|                | F              |                                      |      | 43,4 |                          |                          |
| 15.V.          | e              | 10                                   | 43   | 33   | 0.6                      | 0.2                      |
|                | M              |                                      | 43   | 35   |                          |                          |
|                | F              |                                      |      | 43,8 |                          |                          |
| 15.V.          | e              | 13                                   | 55,1 |      | 0.3                      | 0.2                      |
|                | M              |                                      | 55   | 20   |                          |                          |
|                | F              |                                      |      | 55,5 |                          |                          |
| 15.V.          | e              | 19                                   | 52   | 43   | 0.4                      | 0.2                      |
|                | M              |                                      |      | 44   |                          |                          |
|                | F              |                                      |      | 53,0 |                          |                          |
| 15.V.          | e              | 20                                   | 35,8 |      |                          |                          |
|                | M              |                                      | 36,0 |      |                          |                          |
|                | F              |                                      |      | 36,2 |                          |                          |
| 15.V.          | e              | 21                                   | 38,3 |      |                          |                          |
|                | M              |                                      | 38   | 22   |                          |                          |
|                | F              |                                      |      | 38,5 |                          |                          |
| 15.V.          | e              | 23                                   | 51   | 58   | 0.7                      | 0.8                      |
|                | i              |                                      | 52   | 24   |                          |                          |
|                |                |                                      | 52   | 27   |                          |                          |
|                |                |                                      | 53,4 |      |                          |                          |

Geophysikalisches Institut G Ö T T I N G E N

Seismischer Bericht 1929.

Nachtrag.

| Datum | Ph. | MGZ<br>NS | T | A | MGZ<br>EW | T | A | MGZ<br>Z | T | A | MGZ<br>II,NS | T    | A    |
|-------|-----|-----------|---|---|-----------|---|---|----------|---|---|--------------|------|------|
|       |     | h m s     | s | μ | m s       | s | μ | m s      | s | μ | h m s        | s    | μ    |
| 23.V. | e P |           |   |   |           |   |   |          |   |   | 18 37 50     |      |      |
|       | e   |           |   |   |           |   |   |          |   |   | 37 58        |      |      |
|       | e   |           |   |   |           |   |   |          |   |   | 38 10        |      |      |
|       | e   | 18 38 41  |   |   | 38 41     |   |   | 38 41    |   |   | 38 40        |      |      |
|       | i S |           |   |   |           |   |   |          |   |   | 38 50        | 0,36 | 0,91 |
|       | i   |           |   |   |           |   |   |          |   |   | 38 52        | 0,36 | 1,44 |
|       | e L |           |   |   |           |   |   |          |   |   | 39 40        | 0,36 | 1,29 |
|       | i   |           |   |   |           |   |   |          |   |   | 39 54        | 1,0  | 0,61 |
|       | F   |           |   |   |           |   |   |          |   |   | 43           |      |      |

Gefühlt in Dänemark und Norwegen.