

NEDERLANDSCH METEOROLOGISCH INSTITUUT.

N<sup>o</sup>. 108.

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SEISMISCHE REGISTRERINGEN  
IN DE BILT.

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29.

1941.

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1943.

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TE VERKRIJGEN BIJ | EN VENTE CHEZ  
DE RIJKSUITGEVERIJ TE 'S GRAVENHAGE.  
Prijs f 1.00. | Prix fl 1.00.



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## EINLEITUNG

Die geographischen Koordinaten der Station sind:  $52^{\circ}6' N$ ,  $5^{\circ}11' E$ . Die Höhe des Terrains über dem Meeresniveau ist 3 m. Der Untergrund besteht aus Sand (diluvialen Ablagerungen).

Die folgenden Instrumente waren regelmässig in Betrieb:  
zwei Horizontalseismographen und ein Vertikalseismograph mit galvanometrischer Registrierung nach GALITZIN.

ein astatischer Horizontalseismograph nach WIECHERT,  $M = 200$  kg.  
zwei Horizontalpendel von BOSCH,  $M = 25$  kg.

DIE SEISMOGRAPHEN GALITZIN. Unten sind angegeben: die Galvanometerperiode  $T_I$ , die reduzierte Pendellänge  $l$ , die Entfernung des Galvanometerspiegels vom Registrierpapier  $A_I$ , und weiter die Grenzen der Werte der Eigenperiode des ungedämpften Pendels  $T$ , der Dämpfungskonstante  $\mu$  und des Übertragungsfaktors  $k$  während des Jahres 1941.

|                            | Komp. NS        | Komp. EW        | Komp. Z  |
|----------------------------|-----------------|-----------------|----------|
| Galvanometerperiode $T_I$  | 24,43 sec       | 24,96 sec       | 12,0 sec |
| Reduzierte Pendellänge $l$ | 123,1 mm        | 122,6 mm        | 406 mm   |
| Entfernung $A_I$           | 1380 mm         | 1380 mm         | 1380 mm  |
| Pendelperiode $T$          | 26,82—23,80 sec | 27,10—24,56 sec | 12 sec   |
| Dämpfungskonstante $\mu$   | 0,17; -0,08     | 0,23; 0,00      | 0        |
| Übertragungsfaktor $k$     | 11,24—9,69      | 10,90—10,36     | 178      |

DIE SEISMOGRAPHEN WIECHERT UND BOSCH. Die mittleren Werte der Eigenperiode des Pendels ohne Dämpfung  $T$ , des Dämpfungsverhältnisses  $\epsilon$  und der Indikatorvergrößerung  $V$  waren 1941:

|                     | $T$      | $\epsilon$ | $V$ |
|---------------------|----------|------------|-----|
| WIECHERT (NS Komp.) | 4,9 sec  | 4          | 156 |
| „ (EW „ )           | 4,9 sec  | 4          | 170 |
| BOSCH (NS Komp.)    | 18,1 sec | 4          | 20  |
| „ (EW „ )           | 17,8 sec | 4          | 20  |

## VORWORT.

Die vorliegende neunundzwanzigste Nummer der Seismischen Registrierungen ist im Wesentlichen in der selben Weise abgefasst wie die vorangehende. Die Registrierungen wurden von Dr. J. Veldkamp, adjunkt-Direktor und Leiter der Abteilung Erdmagnetismus und Seismologie bearbeitet und in der Einleitung erläutert.

*Der Hauptdirektor  
des Niederl. Meteor. Instituts*

H. G. CANNegiETER.

DE BILT, August 1943.



## BEARBEITUNG DER REGISTRIERUNGEN.

Zur Bearbeitung der Registrierungen haben fast ausschliesslich die Diagramme der Seismographen nach GALITZIN gedient. Die Registriergeschwindigkeit ist hier 30 mm pro Minute. In den seltenen Fällen, wo die Russregistrierungen der Seismographen WIECHERT und BOSCH zu Hilfe genommen worden sind, ist dies in der Spalte „Bemerkungen“ erwähnt worden. Die Zeit ist in mittlerer Greenwicher Zeit, von Mitternacht bis Mitternacht gezählt von 0 bis 24 h, angegeben worden. In der Spalte „Richtung“ bedeutet + eine Bewegung nach oben (Kompression), — eine Bewegung nach unten (Dilatation). Fragliche Grössen sind in Klammern gesetzt. Für die Phasen wurden die folgenden Zeichen angewandt.

- P = Anfang der ersten Longitudinalwelle.  
 pP = P-Welle, einmal an der Erdoberfläche nahe am Epizentrum reflektiert.  
 PP = halbweg zwischen Herd und Station reflektierte P-Welle.  
 PPP = zweimal reflektierte P-Welle.  
 PPPP = dreimal reflektierte P-Welle.  
 S = Anfang der ersten Transversalwelle.  
 sS = S-Welle, einmal an der Erdoberfläche nahe am Epizentrum reflektiert.  
 PS = einmal reflektierte Wechselwelle.  
 PPS = zweimal reflektierte Wechselwelle.  
 SS = halbweg zwischen Herd und Station reflektierte S-Welle.  
 PcP = am Erdkern reflektierte P-Welle.  
 ScS = am Erdkern reflektierte S-Welle.  
 P' = durch den Erdkern gelaufene Longitudinalwelle (= PkP = PcPcP).  
 pP' = nahe am Epizentrum reflektierte P'-Welle.  
 S' = Transversalwelle, welche als P-Welle durch den Kern gelaufen ist (= SkS = ScPcS).  
 sS' = nahe am Epizentrum reflektierte S'-Welle.  
 ScPcP = durch den Kern gelaufene Wechselwelle.  
 L = Oberflächenwelle.  
 M = Maximum der Bodenbewegung.  
 L' = Oberflächenwellen, welche die Station über den Gegenpunkt erreichen.  
 M' = Maximum dieser Wellen.

- i = scharfes Auftreten einer Phase.  
 e = allmähliches Auftreten einer Phase.  
 F = Ende der sichtbaren Bewegung.  
 H = Herdzeit.  
 h = Herdtiefe.  
 Δ = Epizentralentfernung.

Die Indizes H, N, E, Z beziehen sich auf die Horizontal, Nord-Süd, Ost-West und Vertikalkomponenten.

Die Epizentralentfernung und die Herdtiefe wurden mit Hilfe der Laufzeitkurven von Brunner's „Focal Depth-Time-Distance Chart“ und der Laufzeittabellen von Macelwane (1933) berechnet.

Die in der Spalte „Amplitude“ angegebenen Werte sind die maximalen Ausschläge, von der Ruhelinie aus gemessen. Meistens wurde nur das erste und grösste Maximum der L-Wellen angegeben. Falls die Schwingungen zu klein oder zu unregelmässig waren, ist die Angabe der Amplitude fortgelassen. Die Berechnung geschah mit Hilfe der folgenden Formel

$$V = \frac{A_1 k T_b}{\pi l} \cdot \frac{1}{\left\{1 + \left(\frac{T_b}{T}\right)^2\right\}^2}$$

Hierin ist  $A_1$  der Abstand zwischen Galvanometerspiegel und Registrierbogen,  $T_b$  die Periode der Bebenwelle,  $l$  die reduzierte Pendellänge,  $k$  der Übertragungsfaktor und  $T$  die Eigenperiode des ungedämpften Pendels. Für die Horizontalkomponenten wurden die folgenden Mittelwerte für  $k$  und  $T$  angesetzt:  $k = 10,9$  und  $T = 24,5$  sec. Für die Vertikalkomponente waren diese Werte:  $k = 175$  und  $T = 12,0$  sec.

Die Erdbebenwarten, deren Berichte für mindestens einen Teil des Jahres zur Verfügung standen, waren:

Budapest, Bukarest, Collmberg, Manila, Stuttgart, Uppsala und Zürich.

Die folgenden Abkürzungen wurden benutzt:

JSA = Jesuit Seismological Association, Saint Louis.

USCGS = United States Coast and Geodetic Survey, Washington.

## DIE MIKROSEISMISCHE BEWEGUNG.

Die Tabelle S VII, die den Charakter der mikroseismischen Bewegung



angibt, ist in der selben Weise zusammengestellt wie für die früheren Jahre (vgl. 1915, S 101, 1916, S 101). Es bedeuten:

- 0 sehr schwach und schwach
- 1 mässig
- 2 stark
- 3 sehr stark.

Die Daten sind den Registrierungen des Seismographen WIECHERT entnommen; die Amplituden des Diagrammes (von der Ruhelinie aus gemessen) und die annähernden Amplituden der Bodenbewegung, die den Klassen 0, 1, 2 und 3 entsprechen, sind unten zusammengefasst.

| Klasse | Ampl. Diagramm      | Ampl. Bodenbewegung     |
|--------|---------------------|-------------------------|
| 0      | 0— $\frac{1}{4}$ mm | 0— $1\frac{1}{4}$ $\mu$ |
| 1      | $\frac{1}{4}$ —1 „  | $1\frac{1}{4}$ —5 „     |
| 2      | 1—2 „               | 5—10 „                  |
| 3      | >2 „                | >10 „                   |

## Charakter der mikroseismischen Bewegung.

| Datum<br>1941 | Jan.    | Febr.   | März    | April   | Mai     | Juni    | Juli    | Aug.    | Sept. | Okt.    | Nov.    | Dez.    |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|-------|---------|---------|---------|
| 1             | 1, 2, 1 | 1       | 2       | 1       | 0       | 0       | 0       | 0       | 0     | 1, 0    | 0, 1, 0 | 0, 1, 0 |
| 2             | 1, 2    | 1, 2, 1 | 2, 1    | 1       | 0, 1    | 0       | 0       | 0, 1, 0 | 0     | 0, 1, 0 | 0       | 0, 1, 0 |
| 3             | 2, 3, 2 | 1, 2, 1 | 1       | 1, 0    | 1, 0    | 0       | 0       | 0       | 0     | 0       | 0       | 0, 1, 0 |
| 4             | 2, 1    | 1, 0    | 1       | 0       | 0       | 0       | 0       | 0, 1    | 0     | 0       | 0       | 0, 1    |
| 5             | 1, 0, 1 | 0, 1, 0 | 1       | 0       | 0       | 0       | 0       | 1, 2    | 0     | 0       | 0       | 1       |
| 6             | 1       | 0, 1, 0 | 1       | 0, 1    | 0       | 0, 1, 0 | 0       | 2, 1    | 0     | 0       | 0, 1, 2 | 1, 2    |
| 7             | 1, 0, 1 | 0, 1    | 1       | 1, 0    | 0, 1, 0 | 0       | 0       | 1, 0    | 0     | 0       | 2       | 2, 1, 2 |
| 8             | 1, 0    | 1       | 1       | 0, 1    | 0       | 0       | 0       | 0       | 0, 1  | 0, 1, 0 | 2, 1    | 2, 1    |
| 9             | 0, 1, 0 | 1, 0    | 1       | 1, 0    | 0       | 0, 1, 0 | 0       | 0       | 1, 0  | 0, 1    | 1, 2    | 1, 0    |
| 10            | 0, 1, 0 | 0, 1, 0 | 1, 0    | 0       | 0       | 0, 1    | 0       | 0, 1, 0 | 0, 1  | 1, 3, 2 | 2, 1    | 0, 1, 0 |
| 11            | 0, 1, 0 | 0, 1    | 0       | 0       | 0       | 1       | 0       | 0       | 1     | 2, 3, 2 | 1, 3, 1 | 0, 1    |
| 12            | 0       | 1, 2, 1 | 0, 1    | 0       | 0       | 1, 0    | 0       | 0       | 1     | 2, 1, 0 | 1, 3, 2 | 1, 3    |
| 13            | 0       | 1, 2, 1 | 1       | 0, 1    | 0       | 0       | 0       | 0, 1, 2 | 1, 0  | 0, 1    | 2, 3, 2 | 3, 2    |
| 14            | 0, 1    | 1, 2, 1 | 1, 0    | 1       | 0, 1, 0 | 0, 1    | 0       | 2, 1, 0 | 0, 1  | 1, 0    | 2, 3, 1 | 2, 1    |
| 15            | 1, 0    | 1, 3    | 0       | 1, 0    | 0, 1    | 1, 0    | 0, 1, 0 | 0       | 1, 0  | 0, 1    | 1, 2, 1 | 1       |
| 16            | 0, 1    | 3, 2    | 0       | 0       | 1       | 0       | 0       | 0       | 0     | 1, 0    | 1, 3, 2 | 1, 0    |
| 17            | 1       | 2, 3, 1 | 0       | 0       | 1, 0    | 0       | 0       | 0, 1, 0 | 0     | 0, 1    | 2, 1    | 0, 1, 0 |
| 18            | 1, 3    | 1, 0    | 0, 1    | 0, 1    | 0       | 0       | 0       | 0       | 0     | 1, 2    | 1, 0    | 0       |
| 19            | 3       | 0, 2, 3 | 1, 0    | 1, 2, 1 | 0       | 0       | 0       | 0       | 0     | 2, 1    | 0, 1, 0 | 0       |
| 20            | 3       | 3, 2    | 0, 1    | 1, 0    | 0       | 0       | 0       | 0       | 0     | 1       | 0, 1    | 0       |
| 21            | 3, 2    | 2, 1    | 1       | 0       | 0       | 0       | 0       | 0       | 0     | 1       | 1       | 0, 1, 0 |
| 22            | 2       | 1, 0, 1 | 1, 0    | 0       | 0       | 0       | 0       | 0       | 0     | 1       | 1, 2    | 0, 1, 0 |
| 23            | 2       | 1, 0, 1 | 0, 1    | 0, 1    | 0, 1, 0 | 0       | 0       | 0       | 0     | 1, 0, 1 | 2, 1    | 0, 1    |
| 24            | 2       | 1       | 1       | 1, 0    | 0, 1, 0 | 0       | 0       | 0, 1, 0 | 0     | 1, 0    | 1, 0, 1 | 1, 2, 1 |
| 25            | 2, 1    | 1       | 1       | 0, 1    | 0, 1    | 0       | 0       | 0       | 0, 1  | 0       | 1, 0, 1 | 1, 2, 1 |
| 26            | 1, 0, 1 | 1       | 1, 3, 2 | 1       | 1       | 0       | 0       | 0       | 1     | 0, 2, 1 | 1       | 1       |
| 27            | 1, 2, 1 | 1, 3    | 2, 1    | 1, 0    | 1, 0    | 0       | 0       | 0, 1, 0 | 1, 0  | 1       | 1       | 1, 2, 0 |
| 28            | 1, 0, 1 | 3, 2    | 1       | 0       | 0       | 0, 1    | 0       | 0, 1, 0 | 0     | 1, 2    | 1, 0    | 0       |
| 29            | 1, 0, 1 |         | 1, 0    | 0       | 0       | 1, 0    | 0       | 0, 1    | 0, 1  | 2, 3, 2 | 0       | 0, 1, 0 |
| 30            | 1, 0, 1 |         | 0       | 0, 1, 0 | 0       | 0       | 0       | 1       | 1     | 2, 1    | 0, 1, 0 | 0       |
| 31            | 1, 0, 1 |         | 0, 1    |         | 0       |         | 0       | 1, 0    |       | 1, 0    |         | 0       |



| Datum<br>1941 | Phase              | Zeit |    |    | Richtung | Periode | Amplitude | Bemerkungen                                                                                                                                                                                                                   |
|---------------|--------------------|------|----|----|----------|---------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                    | h    | m  | s  |          |         |           |                                                                                                                                                                                                                               |
| Jan. 5<br>(1) | iP                 | 19   | 1  | 9  | (—)      | 5       | μ         | (1) $\Delta$ etwa 12000 km.<br>Manila: gefühlt in Jolo, $\Delta = 1450$ km.                                                                                                                                                   |
|               | iPP                | 19   | 5  | 34 | —        |         |           |                                                                                                                                                                                                                               |
|               | iS'                | 19   | 11 | 47 | —        |         |           |                                                                                                                                                                                                                               |
|               | (eS)               | 19   | 13 | 0  | —        |         |           |                                                                                                                                                                                                                               |
|               | iPS                | 19   | 14 | 32 | —        |         |           |                                                                                                                                                                                                                               |
|               | iPPS               | 19   | 15 | 30 | —        |         |           |                                                                                                                                                                                                                               |
|               | eSS                | 19   | 20 | 30 | —        |         |           |                                                                                                                                                                                                                               |
|               | eSSS               | 19   | 25 | 0  | —        |         |           |                                                                                                                                                                                                                               |
|               | e(SSSS)            | 19   | 30 | 45 | —        |         |           |                                                                                                                                                                                                                               |
|               | eL                 | 19   | 35 |    | —        |         |           |                                                                                                                                                                                                                               |
| F             | 21                 | 30   |    | —  |          |         |           |                                                                                                                                                                                                                               |
| " 6<br>(2)    | eLN                | 10   | 25 |    | —        | 28      | 5         |                                                                                                                                                                                                                               |
|               | LEZ                | 10   | 33 |    | —        | 18      | 10        |                                                                                                                                                                                                                               |
|               | MEZ                | 10   | 36 |    | —        |         |           |                                                                                                                                                                                                                               |
|               | F                  | 11   | 5  |    | —        |         |           |                                                                                                                                                                                                                               |
| " 7<br>(3)    | e                  | 4    | 19 |    | —        |         |           |                                                                                                                                                                                                                               |
|               | F                  | 4    | 30 |    | —        |         |           |                                                                                                                                                                                                                               |
| " 9<br>(4)    | eL                 | 18   | 24 |    | —        |         |           | Keine Registrierung:<br>9 Januar 7 <sup>h</sup> 29 <sup>m</sup> —13 <sup>h</sup> 24 <sup>m</sup> .<br>10 Januar 7 <sup>h</sup> 49 <sup>m</sup> —12 <sup>h</sup> 48 <sup>m</sup> .                                             |
|               | F                  | 18   | 35 |    | —        |         |           |                                                                                                                                                                                                                               |
| " 11<br>(5)   | iP                 | 8    | 40 | 28 | —        |         |           | (5) $\Delta = 5200$ km, SE Richtung.<br>Budapest gibt: SW Arabien.                                                                                                                                                            |
|               | ePP                | 8    | 42 | 17 | —        |         |           |                                                                                                                                                                                                                               |
|               | iS                 | 8    | 47 | 20 | —        |         |           |                                                                                                                                                                                                                               |
|               | eSS                | 8    | 50 | 30 | —        |         |           |                                                                                                                                                                                                                               |
|               | F                  | 10   | 0  |    | —        |         |           |                                                                                                                                                                                                                               |
| " 12<br>(6)   | eL                 | 1    | 14 |    | —        |         |           |                                                                                                                                                                                                                               |
|               | F                  | 1    | 40 |    | —        |         |           |                                                                                                                                                                                                                               |
| " 13<br>(7)   | (iP)               | 16   | 43 | 52 | —        |         |           | (7) $\Delta$ etwa 14000 km.<br>Manila: Sehr stark gefühlt in Rabaul, N.<br>Guinea, nach Riverview.<br>Herd: 3°S 144°E, h = 100 km, nach USCGS.                                                                                |
|               | (eP <sub>1</sub> ) | 16   | 46 | 50 | —        |         |           |                                                                                                                                                                                                                               |
|               | iPP                | 16   | 48 | 20 | —        |         |           |                                                                                                                                                                                                                               |
|               | eH                 | 16   | 50 | 24 | —        |         |           |                                                                                                                                                                                                                               |
|               | eSS                | 17   | 5  | 20 | —        |         |           |                                                                                                                                                                                                                               |
|               | eL                 | 17   | 27 |    | —        | 42      | 200       |                                                                                                                                                                                                                               |
|               | F                  | 20   | 30 |    | —        |         |           |                                                                                                                                                                                                                               |
| " 17<br>(8)   | F                  | 13   | 15 |    | —        |         |           | (8) Anfang während Konstantenbestimmung.<br>Keine Registrierung:<br>16 Januar 7 <sup>h</sup> 48 <sup>m</sup> —10 <sup>h</sup> 23 <sup>m</sup> .<br>17 Januar 12 <sup>h</sup> 6 <sup>m</sup> —13 <sup>h</sup> 6 <sup>m</sup> . |
|               |                    |      |    |    | —        |         |           |                                                                                                                                                                                                                               |
| " 19<br>(9)   | LH                 | 4    | 10 |    | —        | 25      | 10        | (9) Starke Mikroseismen.                                                                                                                                                                                                      |
|               | F                  | 4    | 30 |    | —        |         |           |                                                                                                                                                                                                                               |
| " 20<br>(10)  | e                  | 3    | 46 |    | —        |         |           | (10) Starke Mikroseismen.<br>Uppsala und Stuttgart geben: Cyprus.                                                                                                                                                             |
|               | eL                 | 3    | 51 |    | —        |         |           |                                                                                                                                                                                                                               |
|               | F                  | 4    | 10 |    | —        |         |           |                                                                                                                                                                                                                               |



| Datum<br>1941   | Phase | Zeit |    |    | Richtung | Periode | Amplitude | Bemerkungen              |
|-----------------|-------|------|----|----|----------|---------|-----------|--------------------------|
|                 |       | h    | m  | s  |          |         |           |                          |
| Jan. 21<br>(11) | iP    | 12   | 52 | 42 | —        | 35      | 25        | (11) $\Delta = 7300$ km  |
|                 | iS    | 13   | 1  | 36 |          |         |           |                          |
|                 | eL    | 13   | 15 |    |          |         |           |                          |
|                 | MN    | 13   | 18 |    |          |         |           |                          |
|                 | F     | 14   | 30 |    |          |         |           |                          |
| " 24<br>(12)    | iP    | 15   | 45 | 35 | —        |         |           | (12) $\Delta = 6200$ km. |
|                 | iS    | 15   | 53 | 30 |          |         |           |                          |
|                 | eL    | 16   | 0  |    |          |         |           |                          |
|                 | F     | 16   | 40 |    |          |         |           |                          |
| " 25<br>(13) 26 | iz    | 23   | 54 | 8  | —        |         |           |                          |
|                 | F     | 0    | 30 |    |          |         |           |                          |
| " 27<br>(14)    | eH    | 2    | 50 | 2  | —        |         |           |                          |
|                 | eLH   | 3    | 6  |    |          |         |           |                          |
|                 | eLz   | 3    | 12 |    |          |         |           |                          |
|                 | F     | 3    | 35 |    |          |         |           |                          |
| " 28<br>(15)    | e     | 4    | 43 |    | —        |         |           |                          |
|                 | F     | 5    | 0  |    |          |         |           |                          |
| " 31<br>(16)    | e     | 3    | 34 |    | —        |         |           |                          |
|                 | F     | 4    | 0  |    |          |         |           |                          |
| Feb. 2<br>(17)  | e     | 21   | 51 |    | —        |         |           |                          |
|                 | F     | 21   | 58 |    |          |         |           |                          |
| " 4<br>(18)     | eL    | 12   | 47 |    | —        |         |           |                          |
|                 | F     | 13   | 0  |    |          |         |           |                          |
| " 4<br>(19)     | iz    | 14   | 18 | 10 | —        | 20      | 5         |                          |
|                 | iH    | 14   | 25 | 40 |          |         |           |                          |
|                 | LN    | 14   | 30 | 30 |          |         |           |                          |
|                 | LH    | 14   | 37 |    |          |         |           |                          |
|                 | MH    | 14   | 57 |    |          |         |           |                          |
|                 | F     | 15   | 35 |    |          |         |           |                          |
| " 4<br>(20)     | eL    | 17   | 52 |    | —        |         |           |                          |
|                 | eL    | 17   | 59 |    |          |         |           |                          |
|                 | F     | 18   | 5  |    |          |         |           |                          |
| " 6<br>(21)     | e     | 0    | 0  |    | —        |         |           |                          |
|                 | F     | 0    | 30 |    |          |         |           |                          |
| " 7<br>(22)     | iz    | 15   | 24 | 47 | —        |         |           |                          |
|                 | eN    | 15   | 34 | 15 |          |         |           |                          |
|                 | L     | 15   | 53 |    |          |         |           |                          |
|                 | F     | 16   | 40 |    |          |         |           |                          |

| Datum<br>1941  | Phase       | Zeit |    |    | Richtung | Periode | Amplitude | Bemerkungen                                                                                                       |    |   |  |  |                                                                    |
|----------------|-------------|------|----|----|----------|---------|-----------|-------------------------------------------------------------------------------------------------------------------|----|---|--|--|--------------------------------------------------------------------|
|                |             | h    | m  | s  |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
| Feb. 8<br>(23) | iPP         | 19   | 4  | 32 | (-)      |         |           | (23) $\Delta = 11500$ km.                                                                                         |    |   |  |  |                                                                    |
|                | iPPP        | 19   | 6  | 58 |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | iS'         | 19   | 10 | 52 |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | iPS         | 19   | 13 | 37 |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | ePPS        | 19   | 14 | 30 |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | eSS         | 19   | 19 | 10 |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | eSSS        | 19   | 23 | 30 |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | eLH         | 19   | 40 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | ME          | 19   | 50 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | F           | 20   | 30 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
| " 9<br>(24)    | eL          | 4    | 57 |    | —        |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | F           | 5    | 20 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
| " 9<br>(25)    | iP          | 9    | 56 | 10 | (-)      |         |           | (25) $\Delta = 8500$ km.<br>Manila gibt: $40^{\circ}.9N$ $125^{\circ}.4W$ nach USCGS,<br>Kalifornien.             |    |   |  |  |                                                                    |
|                | iz          | 9    | 56 | 31 |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | eS          | 10   | 6  | 0  |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | eSS         | 10   | 11 | 0  |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | eL          | 10   | 17 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | ME          | 10   | 22 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | LH          | 12   | 18 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | F           | 12   | 50 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | " 9<br>(26) | iP1' | 19 | 40 |          |         |           |                                                                                                                   | 28 | — |  |  | (26) $\Delta = 14000$ km.<br>Manila: $0^{\circ}N$ $158^{\circ}E$ . |
|                |             | ePP  | 19 | 42 |          |         |           |                                                                                                                   | 20 |   |  |  |                                                                    |
| eS             |             | 19   | 50 | 10 |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
| eSS            |             | 19   | 58 | 0  |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
| eLH            |             | 20   | 23 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
| MN             |             | 20   | 25 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
| LN             |             | 21   | 18 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
| F              | 21          | 50   |    |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
| " 11<br>(27)   | iP          | 14   | 48 | 4  | +        |         |           | (27) $\Delta = 9500$ km, Mittelamerika.<br>Manila: $14^{\circ}.5N$ $94^{\circ}W$ nach USCGS, Küste<br>von Mexico. |    |   |  |  |                                                                    |
|                | ePP         | 14   | 51 | 20 |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | iz          | 14   | 54 | 30 |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | iz          | 14   | 57 | 50 |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | iS          | 14   | 58 | 30 |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | eSS         | 15   | 4  | 0  |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
| " 14<br>(28)   | eLE         | 15   | 15 |    | —        |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | ME          | 15   | 20 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | F           | 17   | 0  |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | eL          | 20   | 19 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
| " 15<br>(29)   | e           | 6    | 37 |    | —        |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | F           | 6    | 45 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
| " 16<br>(30)   | eL          | 17   | 3  |    | —        |         |           | (30) Starke Mikroseeimen.                                                                                         |    |   |  |  |                                                                    |
|                | MN          | 17   | 8  |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |
|                | F           | 17   | 30 |    |          |         |           |                                                                                                                   |    |   |  |  |                                                                    |



| Datum<br>1941   | Phase                                          | Zeit                                                                      | Richtung | Periode  | Amplitude | Bemerkungen                                                                            |
|-----------------|------------------------------------------------|---------------------------------------------------------------------------|----------|----------|-----------|----------------------------------------------------------------------------------------|
|                 |                                                | h m s                                                                     |          | s        | $\mu$     |                                                                                        |
| Feb. 18<br>(31) | e<br>F                                         | 21 35<br>21 42                                                            |          |          |           |                                                                                        |
| " 24<br>(32)    | e<br>F                                         | 13 57<br>14 15                                                            |          |          |           |                                                                                        |
| " 25<br>(33)    | iz<br>(ez)<br>eE<br>(eE)<br>(eE)<br>F          | 5 57 22<br>6 1 50<br>6 7 0<br>6 14 0<br>6 17 30<br>8 30                   | +        |          |           | (33) Streifenwechsel: 6 <sup>h</sup> 31 <sup>m</sup> —6 <sup>h</sup> 40 <sup>m</sup> . |
| " 26<br>(34)    | e<br>F                                         | 0 51<br>1 5                                                               |          |          |           |                                                                                        |
| " 27<br>(35)    | eL<br>F                                        | 10 39<br>10 55                                                            |          |          |           | (35) Starke Mikroseismen.                                                              |
| März 1<br>(36)  | iP<br>iS<br>eLH<br>iLz<br>F                    | 3 56 57<br>4 0 15<br>4 1 0<br>4 2 4<br>4 50                               | -        |          |           | (36) $\Delta = 1900$ km.<br>Larissa in Griechenland zerstört.                          |
| " 4<br>(37)     | eH<br>F                                        | 15 51 20<br>16 20                                                         |          |          |           |                                                                                        |
| " 4<br>(38)     | eH<br>Lz<br>F                                  | 23 54 20<br>0 0<br>0 15                                                   |          |          |           |                                                                                        |
| " 10<br>(39)    | e<br>LH<br>Lz<br>F                             | 4 40<br>4 45<br>4 48<br>5 15                                              |          |          |           |                                                                                        |
| " 11<br>(40)    | (iz)<br>eLH<br>Mz<br>F                         | 13 40 39<br>14 13<br>14 19<br>14 40                                       |          | 22<br>20 | 2<br>2    |                                                                                        |
| " 12<br>(41)    | iP<br>iPP<br>eS<br>eLH<br>ME<br>eLz<br>Mz<br>F | 14 28 53<br>14 32 4<br>14 38 20<br>14 59<br>15 4<br>15 3<br>15 9<br>15 50 | (+)      |          |           | (41) $\Delta$ etwa 9000 km.                                                            |

| Datum<br>1941   | Phase                                     | Zeit                                                         | Richtung | Periode | Amplitude | Bemerkungen                                                                                                  |
|-----------------|-------------------------------------------|--------------------------------------------------------------|----------|---------|-----------|--------------------------------------------------------------------------------------------------------------|
|                 |                                           | h m s                                                        |          | s       | $\mu$     |                                                                                                              |
| März 12<br>(42) | eP<br>ePP<br>eLH<br>ME<br>Mz<br>F         | 21 49 11<br>21 52 17<br>22 20<br>22 24<br>22 29<br>23 0      |          |         |           | (42) Nachbeben von (41).                                                                                     |
| " 13<br>(43)    | eLE<br>LZN<br>F                           | 20 18 30<br>20 23<br>20 30                                   |          |         |           |                                                                                                              |
| " 14<br>(44)    | eL<br>ME<br>F                             | 15 13<br>15 18<br>15 45                                      |          | 21      | 5         |                                                                                                              |
| " 15<br>(45)    | iP<br>iPP<br>eS<br>iPS<br>eLH<br>eLz<br>F | 5 58 52<br>6 2 2<br>6 9 16<br>6 10 9<br>6 25<br>6 30<br>7 5  | -        |         |           | (45) $\Delta = 9200$ km.<br>Streifenwechsel 6 <sup>h</sup> 45 <sup>m</sup> —6 <sup>h</sup> 53 <sup>m</sup> . |
| " 16<br>(46)    | iP<br>ePP<br>iS<br>cL<br>ME<br>Mz<br>F    | 7 54 10<br>7 57 0<br>8 3 52<br>8 23<br>8 28<br>8 30<br>10 30 | +        |         |           | (46) $\Delta = 8500$ km.                                                                                     |
| " 16<br>(47)    | iP<br>iP<br>eS<br>cL<br>F                 | 16 38 40<br>16 38 51<br>16 41 30<br>16 42<br>17 45           | -        |         |           | (47) $\Delta = 1650$ km, Nord-Italien.<br>Verspürt in Palermo.                                               |
| " 16<br>(48)    | iP<br>eL<br>F                             | 18 51 51<br>18 56<br>19 15                                   | +        |         |           | (48) Nachbeben von (47).                                                                                     |
| " 16<br>(49)    | e<br>F                                    | 21 43<br>21 47                                               |          |         |           |                                                                                                              |
| " 17<br>(50)    | e<br>F                                    | 8 20<br>8 30                                                 |          |         |           |                                                                                                              |
| " 19<br>(51)    | eL<br>Lz<br>Mz<br>F                       | 3 27<br>3 36<br>3 37<br>4 0                                  |          | 18      | 6         |                                                                                                              |



| Datum<br>1941 | Phase | Zeit |    |    | Richtung | Periode | Amplitude                                                                       | Bemerkungen |
|---------------|-------|------|----|----|----------|---------|---------------------------------------------------------------------------------|-------------|
|               |       | h    | m  | s  |          |         |                                                                                 |             |
| März 19       | eL    | 20   | 30 |    |          |         |                                                                                 |             |
| (52)          | F     | 20   | 45 |    |          |         |                                                                                 |             |
| " 19          | eL    | 23   | 3  |    |          |         |                                                                                 |             |
| (53)          | F     | 23   | 10 |    |          |         |                                                                                 |             |
| " 20          | eL    | 12   | 50 |    |          |         |                                                                                 |             |
| (54)          | ME    | 12   | 55 |    | 30       | 5       |                                                                                 |             |
|               | F     | 13   | 5  |    |          |         |                                                                                 |             |
| " 21          | (iP)  | 8    | 7  | 39 | (+)      |         | (55) $\Delta = 6000$ km.                                                        |             |
| (55)          | iP    | 8    | 7  | 43 | -        |         | Manila: Herd nach USCGS $7^{\circ}.3N$ $36^{\circ}.6W$ ,<br>Atlantischer Ozean. |             |
|               | ePP   | 8    | 9  | 41 |          |         |                                                                                 |             |
|               | iS    | 8    | 15 | 27 |          |         |                                                                                 |             |
|               | eL    | 8    | 23 |    |          |         |                                                                                 |             |
|               | Mz    | 8    | 35 |    | 18       | 12      |                                                                                 |             |
|               | F     | 9    | 30 |    |          |         |                                                                                 |             |
| " 23          | eL    | 17   | 45 |    |          |         |                                                                                 |             |
| (56)          | F     | 17   | 50 |    |          |         |                                                                                 |             |
| " 28          | e     | 21   | 38 |    |          |         |                                                                                 |             |
| (57)          | eL    | 21   | 40 |    |          |         |                                                                                 |             |
|               | F     | 21   | 48 |    |          |         |                                                                                 |             |
| " 28          | iE    | 23   | 14 | 20 |          |         |                                                                                 |             |
| (58)          | eE    | 23   | 20 | 25 |          |         |                                                                                 |             |
|               | eL    | 23   | 44 |    |          |         |                                                                                 |             |
|               | Mz    | 23   | 58 |    | 23       | 8       |                                                                                 |             |
| " 29          | F     | 0    | 50 |    |          |         |                                                                                 |             |
| April 1       | iP    | 10   | 52 | 22 | -        |         | (59) $\Delta = 7800$ km                                                         |             |
| (59)          | ePP   | 10   | 55 | 20 |          |         | Herd in Alaska, nach Pasadena.                                                  |             |
|               | iS    | 11   | 1  | 37 |          |         |                                                                                 |             |
|               | iSS   | 11   | 6  | 9  |          |         |                                                                                 |             |
|               | eSSS  | 11   | 9  | 50 |          |         |                                                                                 |             |
|               | eLE   | 11   | 16 |    |          |         |                                                                                 |             |
|               | ME    | 11   | 25 |    | 20       | 35      |                                                                                 |             |
|               | F     | 12   | 35 |    |          |         |                                                                                 |             |
| " 3           | iP    | 15   | 34 | 59 | -        |         | (60) $\Delta = 11000$ km, h = 200 km.                                           |             |
| (60)          | ipP   | 15   | 35 | 47 | -        |         |                                                                                 |             |
|               | ePP   | 15   | 39 | 0  |          |         |                                                                                 |             |
|               | epPP  | 15   | 39 | 50 |          |         |                                                                                 |             |
|               | iS'   | 15   | 45 | 5  |          |         |                                                                                 |             |
|               | iSS   | 15   | 52 | 40 |          |         |                                                                                 |             |
|               | eL    | 16   | 10 |    |          |         |                                                                                 |             |
|               | ME    | 16   | 14 |    | 26       | 45      |                                                                                 |             |
|               | F     | 18   | 20 |    |          |         |                                                                                 |             |
| " 4           | e     | 5    | 0  |    |          |         |                                                                                 |             |
| (61)          | F     | 5    | 5  |    |          |         |                                                                                 |             |

| Datum<br>1941 | Phase | Zeit |    |    | Richtung | Periode | Amplitude                                                            | Bemerkungen |
|---------------|-------|------|----|----|----------|---------|----------------------------------------------------------------------|-------------|
|               |       | h    | m  | s  |          |         |                                                                      |             |
| April 4       | eL    | 16   | 20 |    |          |         |                                                                      |             |
| (62)          | MHZ   | 16   | 29 |    | 17       | 7       |                                                                      |             |
|               | F     | 16   | 40 |    |          |         |                                                                      |             |
| " 4           | e     | 22   | 24 |    |          |         |                                                                      |             |
| (63)          | L     | 22   | 31 |    |          |         |                                                                      |             |
|               | F     | 22   | 45 |    |          |         |                                                                      |             |
| " 5           | e     | 10   | 25 |    |          |         |                                                                      |             |
| (64)          | F     | 10   | 31 |    |          |         |                                                                      |             |
| " 5           | eL    | 17   | 32 |    |          |         |                                                                      |             |
| (65)          | MH    | 17   | 37 |    | 17       | 5       |                                                                      |             |
|               | F     | 17   | 55 |    |          |         |                                                                      |             |
| " 6           | e     | 23   | 43 |    |          |         |                                                                      |             |
| (66)          | F     | 24   | 0  |    |          |         |                                                                      |             |
| " 7           | iP    | 23   | 40 | 56 | +        |         | (67) $\Delta = 8000$ km, Mittel-Amerika?                             |             |
| (67)          | iS    | 23   | 50 | 15 |          |         |                                                                      |             |
|               | eSS   | 23   | 55 |    |          |         |                                                                      |             |
| " 8           | eL    | 0    | 3  |    |          |         |                                                                      |             |
|               | ME    | 0    | 10 |    | 20       | 80      |                                                                      |             |
|               | F     | 2    | 25 |    |          |         |                                                                      |             |
| " 9           | eLN   | 11   | 21 |    |          |         |                                                                      |             |
| (68)          | F     | 11   | 25 |    |          |         |                                                                      |             |
| " 9           | eL    | 17   | 51 |    |          |         |                                                                      |             |
| (69)          | F     | 18   | 12 |    |          |         |                                                                      |             |
| " 14          | e     | 3    | 52 |    |          |         |                                                                      |             |
| (70)          | F     | 3    | 55 |    |          |         |                                                                      |             |
| " 15          | iz    | 4    | 4  | 40 | +        |         |                                                                      |             |
| (71)          | eL    | 5    | 2  |    |          |         |                                                                      |             |
|               | Mz    | 5    | 10 |    | 22       | 5       |                                                                      |             |
|               | Lz    | 5    | 22 |    |          |         |                                                                      |             |
|               | F     | 5    | 50 |    |          |         |                                                                      |             |
| " 15          | iz    | 7    | 16 | 0  | -        |         |                                                                      |             |
| (72)          | Lz    | 8    | 33 |    |          |         |                                                                      |             |
|               | F     | 8    | 55 |    |          |         |                                                                      |             |
| " 15          | iP    | 19   | 22 | 34 | +        |         | (73) $\Delta = 9300$ km, Herd in Mexico.                             |             |
| (73)          | i(S') | 19   | 32 | 32 |          |         | Nach Zeitungsberichten Colima (Mexico) fast<br>vollständig zerstört. |             |
|               | iS    | 19   | 32 | 58 |          |         |                                                                      |             |
|               | eL    | 19   | 50 |    |          |         |                                                                      |             |
|               | ME    | 19   | 55 |    | 33       | 1300    |                                                                      |             |
|               | F     | 23   | 30 |    |          |         |                                                                      |             |



| Datum<br>1941    | Phase                          | Zeit                                                        | Richtung | Periode | Amplitude | Bemerkungen                                                         |
|------------------|--------------------------------|-------------------------------------------------------------|----------|---------|-----------|---------------------------------------------------------------------|
|                  |                                | h m s                                                       |          | s       | $\mu$     |                                                                     |
| April 16<br>(74) | eL<br>F                        | 2 21<br>2 40                                                |          |         |           |                                                                     |
| " 16<br>(75)     | c<br>F                         | 14 22<br>14 28                                              |          |         |           |                                                                     |
| " 18<br>(76)     | ez<br>eL<br>MH<br>F            | 5 48 33<br>6 10<br>6 20<br>6 40                             |          | 22      | 5         |                                                                     |
| " 18<br>(77)     | iz<br>L<br>F                   | 6 35 32<br>7 29<br>7 41                                     | +        |         |           | (77) Streifenwechsel $6h_{44}^m - 6h_{51}^m$ .                      |
| " 18<br>(78)     | eL<br>MN<br>F                  | 14 22<br>14 29<br>15 0                                      |          | 20      | 10        |                                                                     |
| " 19<br>(79)     | iP<br>iS<br>eL<br>F            | 8 4 3<br>8 12 28<br>8 25<br>9 0                             | -        |         |           | (79) $\Delta = 6800$ km. Störung durch Mikro-<br>seismen.           |
| " 20<br>(80)     | iP<br>iS<br>eSS<br>eL<br>F     | 17 46 55<br>17 53 38<br>17 56 40<br>18 1<br>19 20           | -        | 33      |           | (80) $\Delta = 5000$ km.<br>Zeitungsberichten: Beben aus Taschkent. |
| " 21<br>(81)     | eS<br>eSS<br>eL<br>F           | 3 15 25<br>3 20 50<br>3 30<br>4 20                          |          |         |           | (81) $\Delta$ etwa 9000 km.                                         |
| " 21<br>(82)     | ez<br>iz<br>L<br>F             | 22 47 24<br>22 47 58<br>23 45<br>0 5                        | -        |         |           |                                                                     |
| " 26<br>(83)     | iN<br>eLN<br>MN<br>F           | 23 29 40<br>23 36<br>23 38<br>24 0                          |          |         |           |                                                                     |
| " 27<br>(84)     | eP<br>iP<br>eS<br>iS<br>L<br>F | 13 6 44<br>13 6 48<br>13 11 10<br>13 11 15<br>13 13<br>14 0 | +        |         |           | (84) $\Delta = 2800$ km, Anatolien?                                 |

| Datum<br>1941    | Phase                                                           | Zeit                                                                                    | Richtung | Periode | Amplitude | Bemerkungen                                         |
|------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------|---------|-----------|-----------------------------------------------------|
|                  |                                                                 | h m s                                                                                   |          | s       | $\mu$     |                                                     |
| April 28<br>(85) | eP<br>eS<br>eL<br>M<br>F                                        | 19 56 22<br>20 7 0<br>20 25<br>20 36<br>21 0                                            |          |         |           | (85) $\Delta = 9500$ km.                            |
| " 29<br>(86)     | iPP<br>iPP<br>ePPP<br>iS'<br>iE<br>eSS<br>eSSS<br>eL<br>Lz<br>F | 1 56 17<br>1 56 27<br>1 59 7<br>2 1 37<br>2 3 10<br>2 13<br>2 18<br>2 35<br>2 45<br>4 0 | (-)<br>- |         |           | (86) $\Delta = 13500$ km.                           |
| " 30<br>(87)     | iP<br>eS'<br>eL<br>F                                            | 9 58 21<br>10 9 0<br>10 31<br>11 0                                                      |          | 22      | 3         | (87) $\Delta$ etwa 11000 km.                        |
| " 30<br>(88)     | e<br>F                                                          | 23 38<br>23 45                                                                          |          |         |           |                                                     |
| Mai 2<br>(89)    | i(P1')<br>eLH<br>eLz<br>F                                       | 10 16 4<br>10 53<br>11 5<br>12 5                                                        |          |         |           | (89) Manila: Herd in der Gegend von New<br>Britain. |
| " 3<br>(90)      | e<br>F                                                          | 2 24<br>2 32                                                                            |          |         |           |                                                     |
| " 5<br>(91)      | iP<br>iPP<br>iPPP<br>iS<br>eLH<br>MN<br>F                       | 15 29 36<br>15 32 16<br>15 33 53<br>15 38 48<br>15 54<br>16 0<br>16 50                  | +        | 15      | 15        | (91) $\Delta = 7800$ km.                            |
| " 6<br>(92)      | eH<br>eHZ<br>eL<br>F                                            | 17 10 40<br>17 14 0<br>17 21<br>17 45                                                   |          |         |           |                                                     |
| " 7<br>(93)      | ez<br>F                                                         | 12 39 4<br>12 50                                                                        |          |         |           |                                                     |



| Datum<br>1941 | Phase                                                          | Zeit                                                                                                  | Richtung | Periode | Amplitude | Bemerkungen                                                                                                                                                    |
|---------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------|---------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                                                                | h m s                                                                                                 |          | s       | $\mu$     |                                                                                                                                                                |
| Mai 8<br>(94) | (iz)<br>eL<br>Mz<br>F                                          | 7 0 35<br>7 6<br>7 8<br>7 20                                                                          |          | 17      | 2         |                                                                                                                                                                |
| " 8<br>(95)   | iP1'<br>eSS<br>eSSS<br>F                                       | 10 40 27<br>11 2 0<br>11 7 40<br>12 0                                                                 | —        |         |           | (95) $\Delta$ etwa 15000 km.<br>Manila gibt: 16°S 170°E, Neu-Hebriden.                                                                                         |
| " 9<br>(96)   | eP<br>eS'<br>iPS<br>eLH<br>MH<br>F                             | 5 46 5<br>5 56 40<br>5 58 47<br>6 19<br>6 23<br>8 20                                                  |          | 27      | 30        | (96) $\Delta$ = 11000 km.<br>Streifenwechsel 6 <sup>h</sup> 45 <sup>m</sup> —6 <sup>h</sup> 53 <sup>m</sup> .<br>Manila: 14°25'N 123°5'E, gefühlt in SE-Luzon. |
| " 9<br>(97)   | eP<br>ePP<br>(eS)<br>eLH<br>MH<br>F                            | 9 44 32<br>9 47 45<br>9 55 0<br>10 15<br>10 25<br>11 20                                               |          | 15      | 8         | (97) $\Delta$ = 9500 km?                                                                                                                                       |
| " 10<br>(98)  | e<br>F                                                         | 16 55<br>17 0                                                                                         |          |         |           |                                                                                                                                                                |
| " 11<br>(99)  | eL<br>Lz<br>F                                                  | 5 57<br>6 2<br>6 22                                                                                   |          | 17      | 1         |                                                                                                                                                                |
| " 11<br>(100) | e<br>F                                                         | 17 33<br>17 38                                                                                        |          |         |           |                                                                                                                                                                |
| " 11<br>(101) | e<br>F                                                         | 21 10<br>21 15                                                                                        |          |         |           |                                                                                                                                                                |
| " 12<br>(102) | e<br>F                                                         | 3 19<br>3 26                                                                                          |          |         |           |                                                                                                                                                                |
| " 13<br>(103) | eP<br>ePP<br>eS<br>iPS<br>eSS<br>eSSS<br>eL<br>ME<br>eL'z<br>F | 16 13 51<br>16 16 50<br>16 23 50<br>16 24 45<br>16 28 45<br>16 33<br>16 36<br>16 42<br>18 28<br>18 46 | —<br>—   | 26      | 25        | (103) $\Delta$ = 8800 km.<br>Manila: 40°.3N 125°W nach USCGS.<br>Küste von Kalifornien.                                                                        |

| Datum<br>1941   | Phase                                                        | Zeit                                                                            | Richtung | Periode  | Amplitude  | Bemerkungen                                                                                                                                                                                     |
|-----------------|--------------------------------------------------------------|---------------------------------------------------------------------------------|----------|----------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                                                              | h m s                                                                           |          | s        | $\mu$      |                                                                                                                                                                                                 |
| Mai 14<br>(104) | eL<br>MN<br>F                                                | 7 46<br>7 48<br>8 10                                                            |          | 23       | 4          |                                                                                                                                                                                                 |
| " 14<br>(105)   | iP<br>iS<br>eL<br>F                                          | 8 40 27<br>8 43 50<br>8 45<br>9 15                                              | (+)      |          |            | (105) $\Delta$ = 2000 km.                                                                                                                                                                       |
| " 16<br>(106)   | (eH)<br>eL<br>F                                              | 1 35 24<br>1 37<br>2 0                                                          |          |          |            | (106) Nach Stuttgart Nachbeben von (105).                                                                                                                                                       |
| " 16<br>(107)   | eP<br>iS<br>eSS<br>eSSS<br>eL<br>MN<br>eL'<br>F              | 7 26 7<br>7 35 45<br>7 40 25<br>7 44 0<br>7 51<br>7 56<br>9 32<br>10 5          |          | 23       | 210        | (107) $\Delta$ = 8300 km.                                                                                                                                                                       |
| " 16<br>(108)   | eL<br>F                                                      | 13 42<br>13 55                                                                  |          |          |            |                                                                                                                                                                                                 |
| " 17<br>(109)   | eP1'<br>ePP<br>eScPcP<br>iSS<br>eSSS<br>eH<br>eL<br>ME<br>Mz | 2 44 15<br>2 46 54<br>2 47 55<br>3 4 55<br>3 10<br>3 20<br>3 25<br>3 30<br>3 38 |          | 30<br>25 | 130<br>120 | (109) $\Delta$ = 15000 km.<br>Manila gibt: 12°.9S 166°.7E nach USCGS,<br>Gegend der Neu-Hebriden.<br>F während Streifenwechsel 6 <sup>h</sup> 45 <sup>m</sup> —6 <sup>h</sup> 57 <sup>m</sup> . |
| " 18<br>(110)   | eZ<br>F                                                      | 11 35 12<br>11 40                                                               |          |          |            |                                                                                                                                                                                                 |
| " 20<br>(111)   | eL<br>F                                                      | 0 31<br>0 40                                                                    |          |          |            |                                                                                                                                                                                                 |
| " 21<br>(112)   | eL<br>F                                                      | 7 40<br>7 45                                                                    |          |          |            |                                                                                                                                                                                                 |
| " 22<br>(113)   | eN<br>eL<br>Lz<br>F                                          | 1 20 25<br>1 38<br>1 44<br>1 50                                                 |          |          |            |                                                                                                                                                                                                 |



| Datum<br>1941   | Phase  | Zeit |    |    | Richtung | Periode<br>s | Amplitude<br>$\mu$ | Bemerkungen                                                                           |
|-----------------|--------|------|----|----|----------|--------------|--------------------|---------------------------------------------------------------------------------------|
|                 |        | h    | m  | s  |          |              |                    |                                                                                       |
| Mai 23<br>(114) | iP     | 19   | 56 | 49 | —        | 25           | 70                 | (114) $\Delta = 2550$ km.<br>Westküste von Klein-Asien (nach Zeitungs-<br>berichten). |
|                 | iS     | 20   | 0  | 55 |          |              |                    |                                                                                       |
|                 | eL     | 20   | 3  |    |          |              |                    |                                                                                       |
|                 | MN     | 20   | 5  |    |          |              |                    |                                                                                       |
|                 | F      | 20   | 45 |    |          |              |                    |                                                                                       |
| " 23<br>(115)   | iP     | 22   | 39 | 9  | (+) —    | 12           | 20                 | (115) Nachbeben von (114).<br>F im folgenden Beben.                                   |
|                 | iS     | 22   | 43 | 14 |          |              |                    |                                                                                       |
|                 | eL     | 22   | 45 | 30 |          |              |                    |                                                                                       |
|                 | MN     | 22   | 47 |    |          |              |                    |                                                                                       |
| " 23<br>(116)   | eL     | 23   | 13 |    |          |              |                    |                                                                                       |
|                 | F      | 23   | 22 |    |          |              |                    |                                                                                       |
| " 24<br>(117)   | iz     | 5    | 32 | 34 |          |              |                    |                                                                                       |
|                 | Lz     | 6    | 25 |    |          |              |                    |                                                                                       |
|                 | F      | 6    | 40 |    |          |              |                    |                                                                                       |
| " 24<br>(118)   | eL     | 20   | 51 |    |          |              |                    |                                                                                       |
|                 | F      | 21   | 5  |    |          |              |                    |                                                                                       |
| " 25<br>(119)   | iz     | 1    | 28 | 55 |          |              |                    |                                                                                       |
|                 | F      | 1    | 32 |    |          |              |                    |                                                                                       |
| " 26<br>(120)   | iz     | 13   | 19 | 3  |          |              |                    | (120) Stuttgart: Herd in der mittleren Adria.                                         |
|                 | M      | 13   | 21 |    |          |              |                    |                                                                                       |
|                 | F      | 13   | 22 |    |          |              |                    |                                                                                       |
| " 29<br>(121)   | ez     | 11   | 38 | 24 |          |              |                    | (122) $\Delta$ etwa 16000 km.                                                         |
|                 | iH     | 11   | 49 | 4  |          |              |                    |                                                                                       |
|                 | eL     | 12   | 45 |    | 23       | 2            |                    |                                                                                       |
|                 | Lz     | 12   | 50 |    |          |              |                    |                                                                                       |
|                 | F      | 13   | 40 |    |          |              |                    |                                                                                       |
| " 30<br>(122)   | i(P1') | 17   | 49 | 35 |          |              |                    |                                                                                       |
|                 | e(PP)  | 17   | 53 | 0  |          |              |                    |                                                                                       |
|                 | eSS    | 18   | 12 | 25 |          |              |                    |                                                                                       |
|                 | eL     | 18   | 50 |    |          |              |                    |                                                                                       |
|                 | F      | 20   | 0  |    |          |              |                    |                                                                                       |
| " 30<br>(123)   | iz     | 21   | 47 | 31 | —        |              |                    |                                                                                       |
|                 | ez     | 21   | 49 | 20 |          |              |                    |                                                                                       |
|                 | F      | 22   | 15 |    |          |              |                    |                                                                                       |
| " 31<br>(124)   | iz     | 5    | 15 | 49 | —        |              |                    |                                                                                       |
|                 | eL     | 6    | 20 |    |          |              |                    |                                                                                       |
|                 | F      | 7    | 0  |    |          |              |                    |                                                                                       |
| Juni 1<br>(125) | eL     | 8    | 8  |    |          |              |                    |                                                                                       |
|                 | F      | 8    | 20 |    |          |              |                    |                                                                                       |

| Datum<br>1941   | Phase | Zeit |    |    | Richtung | Periode<br>s | Amplitude<br>$\mu$ | Bemerkungen                                                                                                                                                                 |
|-----------------|-------|------|----|----|----------|--------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |       | h    | m  | s  |          |              |                    |                                                                                                                                                                             |
| Juni 1<br>(126) | ezH   | 17   | 55 | 9  |          | 18           | 1                  | Konstantenbestimmung:<br>3 Juni 7 <sup>h</sup> 15 <sup>m</sup> —9 <sup>h</sup> 44 <sup>m</sup> .<br>4 Juni 7 <sup>h</sup> 15 <sup>m</sup> —8 <sup>h</sup> 24 <sup>m</sup> . |
|                 | eLH   | 18   | 2  |    |          |              |                    |                                                                                                                                                                             |
|                 | Lz    | 18   | 4  |    |          |              |                    |                                                                                                                                                                             |
|                 | Mz    | 18   | 6  |    |          |              |                    |                                                                                                                                                                             |
|                 | F     | 18   | 35 |    |          |              |                    |                                                                                                                                                                             |
| " 4<br>(127)    | (iz)  | 16   | 49 | 46 |          |              |                    | (127) Nach Manila in Guam verspürt.                                                                                                                                         |
|                 | eL    | 17   | 26 |    |          |              |                    |                                                                                                                                                                             |
|                 | F     | 17   | 55 |    |          |              |                    |                                                                                                                                                                             |
| " 5<br>(128)    | e     | 2    | 57 |    |          |              |                    |                                                                                                                                                                             |
|                 | F     | 2    | 59 |    |          |              |                    |                                                                                                                                                                             |
| " 5<br>(129)    | eL    | 9    | 30 |    |          |              |                    |                                                                                                                                                                             |
|                 | F     | 9    | 55 |    |          |              |                    |                                                                                                                                                                             |
| " 6<br>(130)    | iP    | 21   | 7  | 4  | (+) —    | 15           | 2                  | (130) $\Delta = 2200$ km.                                                                                                                                                   |
|                 | eS    | 21   | 10 | 52 |          |              |                    |                                                                                                                                                                             |
|                 | ez    | 21   | 11 | 10 |          |              |                    |                                                                                                                                                                             |
|                 | eL    | 21   | 13 |    |          |              |                    |                                                                                                                                                                             |
|                 | Mz    | 21   | 16 |    |          |              |                    |                                                                                                                                                                             |
| " 9<br>(131)    | F     | 21   | 25 |    |          |              |                    | (131) eL während Streifenwechsel 6 <sup>h</sup> 50 <sup>m</sup> —<br>6 <sup>h</sup> 58 <sup>m</sup> .<br>$\Delta = 8500$ km.                                                |
|                 | iP    | 6    | 29 | 34 |          |              |                    |                                                                                                                                                                             |
|                 | iS    | 6    | 39 | 14 |          |              |                    |                                                                                                                                                                             |
|                 | eSSS  | 6    | 48 | 0  |          |              |                    |                                                                                                                                                                             |
| " 9<br>(132)    | F     | 7    | 35 |    |          |              |                    |                                                                                                                                                                             |
|                 | eL    | 9    | 16 |    |          |              |                    |                                                                                                                                                                             |
| " 9<br>(132)    | Me    | 9    | 22 |    | 30       | 15           | 3                  |                                                                                                                                                                             |
|                 | Mz    | 9    | 32 |    |          |              |                    |                                                                                                                                                                             |
|                 | F     | 9    | 40 |    |          |              |                    |                                                                                                                                                                             |
| " 10<br>(133)   | iz    | 20   | 45 | 46 | —        |              |                    |                                                                                                                                                                             |
|                 | eL    | 21   | 1  |    |          |              |                    |                                                                                                                                                                             |
|                 | F     | 21   | 18 |    |          |              |                    |                                                                                                                                                                             |
| " 11<br>(134)   | iP    | 23   | 24 | 57 | +        |              |                    | (134) $\Delta = 7800$ km.                                                                                                                                                   |
|                 | iS    | 23   | 34 | 9  |          |              |                    |                                                                                                                                                                             |
|                 | eL    | 23   | 50 |    |          |              |                    |                                                                                                                                                                             |
|                 | MH    | 23   | 53 |    |          |              |                    |                                                                                                                                                                             |
| " 12<br>(135)   | Mz    | 23   | 58 |    | 22       | 13           | 5                  |                                                                                                                                                                             |
|                 | F     | 0    | 20 |    |          |              |                    |                                                                                                                                                                             |
| " 12<br>(135)   | eL    | 14   | 4  | 30 |          |              |                    |                                                                                                                                                                             |
|                 | Mz    | 14   | 7  |    |          |              |                    |                                                                                                                                                                             |
|                 | F     | 14   | 15 |    |          |              |                    |                                                                                                                                                                             |
| " 15<br>(136)   | ize   | 13   | 3  | 22 |          |              |                    |                                                                                                                                                                             |
|                 | eL    | 13   | 9  |    |          |              |                    |                                                                                                                                                                             |
|                 | Lz    | 13   | 10 |    |          |              |                    |                                                                                                                                                                             |
|                 | F     | 13   | 20 |    |          |              |                    |                                                                                                                                                                             |



| Datum<br>1941    | Phase                                | Zeit |    |    | Richtung | Periode<br>s | Amplitude<br>μ | Bemerkungen                                                                           |
|------------------|--------------------------------------|------|----|----|----------|--------------|----------------|---------------------------------------------------------------------------------------|
|                  |                                      | h    | m  | s  |          |              |                |                                                                                       |
| Juni 16<br>(137) | eL<br>F                              | 4    | 27 |    |          |              |                |                                                                                       |
| " 16<br>(138)    | eL<br>F                              | 11   | 38 |    |          |              |                |                                                                                       |
| " 16<br>(139)    | eP<br>eL<br>MH<br>F                  | 11   | 44 | 48 |          | 30           | 3              | (139) $\Delta$ etwa 11000 km.<br>Nach Manila in N.E. Mindanao verspürt.               |
| " 16<br>(140)    | iP<br>eS<br>eLH<br>Me<br>F           | 18   | 35 | 55 | (+)      |              |                | (140) $\Delta = 2700$ km.                                                             |
| " 16<br>(141)    | iP<br>eS<br>eL<br>Me<br>Mz<br>F      | 21   | 17 | 6  | +        |              |                | (141) $\Delta = 2700$ km, derselbe Herd wie<br>(140).                                 |
| " 18<br>(142)    | eZ<br>eE<br>eL                       | 10   | 34 | 0  |          |              |                | (142) F im folgenden Beben.                                                           |
| " 18<br>(143)    | iP<br>iS<br>eL<br>MN<br>F            | 11   | 14 | 25 | +        | 15           | 130            | (143) $\Delta = 2650$ km, Herd etwa $52^\circ$ N<br>$32^\circ$ W, Atlantischer Ozean. |
| " 18<br>(144)    | e<br>eL<br>F                         | 14   | 6  |    |          |              |                |                                                                                       |
| " 18<br>(145)    | iPP<br>iPS<br>eSS<br>eSSS<br>eL<br>F | 20   | 17 | 51 |          |              |                | (145) $\Delta$ etwa 12000 km.<br>Manila: Vermutlich in den Molukken.                  |
| " 20<br>(146)    | i(P1')<br>(ePP)<br>eLH<br>MN<br>F    | 9    | 0  | 10 |          | 25           | 1              | (146) $\Delta = 17200$ km?                                                            |

| Datum<br>1941    | Phase                                          | Zeit |    |    | Richtung | Periode<br>s | Amplitude<br>μ | Bemerkungen                                                                                                                                                                                  |
|------------------|------------------------------------------------|------|----|----|----------|--------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                                                | h    | m  | s  |          |              |                |                                                                                                                                                                                              |
| Juni 21<br>(147) | eL<br>M<br>F                                   | 5    | 6  |    |          |              |                |                                                                                                                                                                                              |
| " 21<br>(148)    | eL<br>F                                        | 9    | 9  |    |          |              |                |                                                                                                                                                                                              |
| " 21<br>(149)    | iP1'<br>i(pP1')<br>i(PP)<br>e(PPP)<br>eSS<br>F | 18   | 0  | 15 | —        |              |                | (149) $\Delta$ etwa 16000 km, h = 600 km?<br>NS Registrierung fehlt.<br>Stuttgart gibt: Nach Pasadena Herd im Ge-<br>biet der Tonga-Inseln, h = 500 km.                                      |
| " 23<br>(150)    | eP<br>eS<br>eLH<br>MN<br>F                     | 8    | 5  | 26 |          | 15           | 8              | (150) $\Delta = 2500$ km.                                                                                                                                                                    |
| " 23<br>(151)    | iPP<br>eS<br>ePS<br>eSS<br>eLH<br>MN<br>F      | 9    | 47 | 27 | —        | 27           | 10             | (151) $\Delta = 12000$ km.                                                                                                                                                                   |
| " 24<br>(152)    | e<br>M<br>F                                    | 15   | 24 |    |          |              |                |                                                                                                                                                                                              |
| " 24<br>(153)    | e<br>F                                         | 18   | 57 |    |          |              |                |                                                                                                                                                                                              |
| " 26<br>(154)    | iP<br>iS<br>F                                  | 12   | 4  | 4  | —        |              |                | (154) Ausserordentlich kräftiges Beben aus E-<br>Richtung, $\Delta = 8900$ km.<br>Galitzin fast unentwirrbar.<br>Stuttgart gibt: $13^\circ$ N $95^\circ$ E nach USCGS,<br>Meer von Bengalen. |
| " 27<br>(155)    | e<br>F                                         | 6    | 10 |    |          |              |                |                                                                                                                                                                                              |
| " 27<br>(156)    | iP1'<br>ePP<br>eScPcP<br>iz<br>eL<br>F         | 8    | 15 | 14 | —        |              |                | (156) $\Delta$ etwa 15000 km.<br>Manila: Zentral Australien.                                                                                                                                 |
| " 27<br>(157)    | eL<br>F                                        | 14   | 58 |    |          |              |                |                                                                                                                                                                                              |



| Datum<br>1941    | Phase | Zeit |    |    | Richtung | Periode | Amplitude | Bemerkungen                                                                                        |
|------------------|-------|------|----|----|----------|---------|-----------|----------------------------------------------------------------------------------------------------|
|                  |       | h    | m  | s  |          |         |           |                                                                                                    |
| Juni 27<br>(158) | iP    | 17   | 23 | 40 | +        |         |           | (158) $\Delta = 8900$ km.<br>Stuttgart: $16^{\circ}$ N $93^{\circ}$ W (Süd Mexico), nach<br>USCGS. |
|                  | iS    | 17   | 33 | 38 |          |         |           |                                                                                                    |
|                  | iH    | 17   | 35 | 12 |          |         |           |                                                                                                    |
|                  | eL    | 17   | 45 |    |          |         |           |                                                                                                    |
|                  | F     | 18   | 20 |    |          |         |           |                                                                                                    |
| " 27<br>(159)    | e     | 19   | 48 |    |          |         |           |                                                                                                    |
|                  | F     | 20   | 0  |    |          |         |           |                                                                                                    |
| " 28<br>(160)    | e     | 3    | 31 |    |          |         |           |                                                                                                    |
|                  | F     | 3    | 40 |    |          |         |           |                                                                                                    |
| " 28<br>(161)    | eL    | 18   | 38 |    |          |         |           |                                                                                                    |
|                  | F     | 19   | 0  |    |          |         |           |                                                                                                    |
| " 29<br>(162)    | eL    | 7    | 8  |    |          |         |           |                                                                                                    |
|                  | F     | 7    | 40 |    |          |         |           |                                                                                                    |
| " 29<br>(163)    | iP1'  | 22   | 26 | 19 | +        |         |           | (163) $\Delta$ etwa 16000 km.                                                                      |
|                  | eLH   | 23   | 20 |    |          |         |           |                                                                                                    |
|                  | MN    | 23   | 30 |    |          |         |           |                                                                                                    |
| " 30<br>(164)    | F     | 0    | 20 |    | 23       | 6       |           | (164) $\Delta = 14500$ km?                                                                         |
|                  | i(P)  | 16   | 47 | 27 |          |         |           |                                                                                                    |
| " 30<br>(165)    | e(S') | 16   | 57 | 20 |          |         |           |                                                                                                    |
|                  | e(SS) | 17   | 10 | 0  |          |         |           |                                                                                                    |
|                  | L     | 17   | 30 |    |          |         |           |                                                                                                    |
|                  | F     | 19   | 0  |    |          |         |           |                                                                                                    |
|                  | eL    | 19   | 7  |    |          |         |           |                                                                                                    |
| Juli 1<br>(166)  | F     | 19   | 30 |    | 15       | 3       |           |                                                                                                    |
|                  | eL    | 6    | 56 |    |          |         |           |                                                                                                    |
|                  | MN    | 7    | 0  |    |          |         |           |                                                                                                    |
| " 1<br>(167)     | F     | 7    | 15 |    | +        |         |           | (167) $\Delta = 9000$ km.                                                                          |
|                  | iP    | 8    | 3  | 15 |          |         |           |                                                                                                    |
|                  | ePP   | 8    | 6  | 20 |          |         |           |                                                                                                    |
|                  | eS    | 8    | 13 | 35 |          |         |           |                                                                                                    |
|                  | eLH   | 8    | 31 |    |          |         |           |                                                                                                    |
|                  | ME    | 8    | 36 |    |          |         |           |                                                                                                    |
| " 2<br>(168)     | F     | 9    | 5  |    | 23       | 5       |           |                                                                                                    |
|                  | eL    | 3    | 26 |    |          |         |           |                                                                                                    |
| " 3<br>(169)     | F     | 3    | 38 |    |          |         |           |                                                                                                    |
|                  | eP    | 7    | 26 | 1  |          |         |           |                                                                                                    |
| " 3<br>(169)     | iPP   | 7    | 30 | 20 | -        |         |           | (169) $\Delta = 12000$ km.                                                                         |
|                  | eSS   | 7    | 45 | 10 |          |         |           |                                                                                                    |
|                  | eLH   | 8    | 2  |    |          |         |           |                                                                                                    |
|                  | MN    | 8    | 12 |    |          |         |           |                                                                                                    |
|                  | F     | 10   | 0  |    |          |         |           |                                                                                                    |

| Datum<br>1941   | Phase  | Zeit |    |        | Richtung | Periode | Amplitude | Bemerkungen                                          |
|-----------------|--------|------|----|--------|----------|---------|-----------|------------------------------------------------------|
|                 |        | h    | m  | s      |          |         |           |                                                      |
| Juli 5<br>(170) | e      | 3    | 40 |        |          |         |           |                                                      |
|                 | F      | 4    | 25 |        |          |         |           |                                                      |
| " 6<br>(171)    | iP     | 0    | 47 | 11     |          |         |           | (171) $\Delta = 9500$ km.                            |
|                 | iPP    | 0    | 50 | 37     |          |         |           |                                                      |
|                 | iS     | 0    | 57 | 43     |          |         |           |                                                      |
|                 | ePS    | 0    | 58 | 43     |          |         |           |                                                      |
|                 | eLH    | 1    | 20 |        |          |         |           |                                                      |
| " 6<br>(172)    | F      | 1    | 45 |        |          |         |           |                                                      |
|                 | ez     | 5    | 54 | 5      |          |         |           |                                                      |
|                 | eL     | 6    | 20 |        |          |         |           |                                                      |
| " 6<br>(173)    | MH     | 6    | 25 |        | 20       | 2       |           | (173) $\Delta = 10000$ km.                           |
|                 | Mz     | 6    | 25 |        |          |         |           |                                                      |
|                 | F      | 7    | 5  |        |          |         |           |                                                      |
| " 6<br>(174)    | iP     | 21   | 26 | 30     |          |         |           | (174) $\Delta$ etwa 1000 km.                         |
|                 | iPP    | 21   | 29 | 55     |          |         |           |                                                      |
|                 | iS     | 21   | 37 | 16     |          |         |           |                                                      |
|                 | eLH    | 21   | 59 |        |          |         |           |                                                      |
|                 | F      | 22   | 45 |        |          |         |           |                                                      |
| " 7<br>(175)    | (eP)   | 22   | 47 | 30     |          |         |           |                                                      |
|                 | eS     | 22   | 49 | 25     |          |         |           |                                                      |
|                 | L      | 22   | 49 | 50     |          |         |           |                                                      |
|                 | F      | 23   | 5  |        |          |         |           |                                                      |
| " 9<br>(176)    | e      | 1    | 23 |        |          |         |           |                                                      |
|                 | F      | 1    | 40 |        |          |         |           |                                                      |
| " 10<br>(177)   | eLH    | 4    | 16 |        | 25       | 2       |           |                                                      |
|                 | Me     | 4    | 19 |        |          |         |           |                                                      |
|                 | F      | 4    | 55 |        |          |         |           |                                                      |
| " 10<br>(178)   | ez     | 10   | 44 | 30     |          |         |           | (178) $\Delta = 9300$ km.                            |
|                 | eLE    | 11   | 10 |        |          |         |           |                                                      |
|                 | F      | 11   | 45 |        |          |         |           |                                                      |
| " 11<br>(179)   | iP     | 1    | 29 | 14 (+) |          |         |           |                                                      |
|                 | eS     | 1    | 39 | 35     |          |         |           |                                                      |
|                 | eSS    | 1    | 45 | 15     |          |         |           |                                                      |
|                 | (eSSS) | 1    | 48 | 30     |          |         |           |                                                      |
|                 | eLE    | 1    | 56 |        |          |         |           |                                                      |
|                 | ME     | 1    | 58 |        |          |         |           |                                                      |
|                 | eL     | 2    | 41 |        |          |         |           |                                                      |
| ME              | 2      | 44   |    |        |          |         |           |                                                      |
| " 13<br>(179)   | F      | 2    | 55 |        | 20       | 2       |           | (179) NS-Registrierung fehlt.<br>$\Delta = 2500$ km. |
|                 | iP     | 15   | 44 | 13     |          |         |           |                                                      |
|                 | iS     | 15   | 48 | 15     |          |         |           |                                                      |
|                 | eLE    | 15   | 50 |        |          |         |           |                                                      |
|                 | F      | 16   | 50 |        |          |         |           |                                                      |



| Datum<br>1941    | Phase | Zeit |    |    | Richtung | Periode<br>s | Amplitude<br>$\mu$                                                                                                                 | Bemerkungen |
|------------------|-------|------|----|----|----------|--------------|------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                  |       | h    | m  | s  |          |              |                                                                                                                                    |             |
| Juli 14<br>(180) | eP    | 2    | 14 | 30 |          |              | (180) NS-Registrierung fehlt.<br>$\Delta = 9000$ km.                                                                               |             |
|                  | ePP   | 2    | 17 | 30 |          |              |                                                                                                                                    |             |
|                  | eS    | 2    | 24 | 30 |          |              |                                                                                                                                    |             |
|                  | eLE   | 2    | 40 |    |          |              |                                                                                                                                    |             |
|                  | F     | 3    | 45 |    |          |              |                                                                                                                                    |             |
| " 14<br>(181)    | eL    | 9    | 34 |    |          |              |                                                                                                                                    |             |
|                  | F     | 9    | 40 |    |          |              |                                                                                                                                    |             |
| " 15<br>(182)    | eL    | 15   | 30 |    | 20       | 4            |                                                                                                                                    |             |
|                  | MH    | 15   | 31 |    |          |              |                                                                                                                                    |             |
|                  | F     | 16   | 10 |    |          |              |                                                                                                                                    |             |
| " 16<br>(183)    | iP    | 3    | 26 | 14 | 25       | 5            | (183) $\Delta = 9000$ km.                                                                                                          |             |
|                  | eS    | 3    | 36 | 34 |          |              |                                                                                                                                    |             |
|                  | eLH   | 3    | 48 | 30 |          |              |                                                                                                                                    |             |
|                  | MH    | 3    | 55 |    |          |              |                                                                                                                                    |             |
|                  | F     | 4    | 50 |    |          |              |                                                                                                                                    |             |
| " 16<br>(184)    | ez    | 15   | 55 | 58 |          |              |                                                                                                                                    |             |
|                  | eL    | 16   | 27 |    |          |              |                                                                                                                                    |             |
|                  | F     | 16   | 45 |    |          |              |                                                                                                                                    |             |
| " 17<br>(185)    | iP    | 22   | 14 | 32 | 13       | 2            | (185) $\Delta = 2900$ km.                                                                                                          |             |
|                  | eS    | 22   | 19 | 8  |          |              |                                                                                                                                    |             |
|                  | eL    | 22   | 25 |    |          |              |                                                                                                                                    |             |
|                  | Mz    | 22   | 27 |    |          |              |                                                                                                                                    |             |
|                  | F     | 22   | 45 |    |          |              |                                                                                                                                    |             |
| " 17<br>(186)    | (eP)  | 23   | 43 | 46 |          |              |                                                                                                                                    |             |
|                  | eS    | 23   | 51 | 20 |          |              |                                                                                                                                    |             |
| " 18             | eL    | 0    | 2  |    | 25       | 2            |                                                                                                                                    |             |
|                  | MH    | 0    | 5  |    |          |              |                                                                                                                                    |             |
|                  | F     | 0    | 35 |    |          |              |                                                                                                                                    |             |
| " 19<br>(187)    | iP    | 6    | 6  | 37 | 17       | 3            | (187) $\Delta$ wahrscheinlich 2700 km.<br>F während Papierwechsel 6 <sup>h</sup> 42 <sup>m</sup> —6 <sup>h</sup> 57 <sup>m</sup> . |             |
|                  | eLH   | 6    | 14 |    |          |              |                                                                                                                                    |             |
|                  | ME    | 6    | 16 |    |          |              |                                                                                                                                    |             |
| " 19<br>(188)    | eL    | 9    | 7  |    |          |              |                                                                                                                                    |             |
|                  | F     | 9    | 15 |    |          |              |                                                                                                                                    |             |
| " 19<br>(189)    | (eP)  | 9    | 30 | 50 |          |              | (189) $\Delta$ etwa 2800 km.                                                                                                       |             |
|                  | iS    | 9    | 35 | 18 |          |              |                                                                                                                                    |             |
|                  | eL    | 9    | 37 |    |          |              |                                                                                                                                    |             |
|                  | F     | 10   | 30 |    |          |              |                                                                                                                                    |             |
|                  |       |      |    |    |          |              |                                                                                                                                    |             |
| " 19<br>(190)    | iP    | 15   | 25 | 45 |          |              | (190) $\Delta = 9400$ km.                                                                                                          |             |
|                  | iS    | 15   | 36 | 6  |          |              |                                                                                                                                    |             |
|                  | eLH   | 15   | 55 |    |          |              |                                                                                                                                    |             |
|                  | F     | 17   | 0  |    |          |              |                                                                                                                                    |             |

| Datum<br>1941    | Phase                | Zeit |    |    | Richtung | Periode<br>s | Amplitude<br>$\mu$                                                                                     | Bemerkungen |
|------------------|----------------------|------|----|----|----------|--------------|--------------------------------------------------------------------------------------------------------|-------------|
|                  |                      | h    | m  | s  |          |              |                                                                                                        |             |
| Juli 20<br>(191) | iz                   | 6    | 20 | 47 | —        |              | (191) Streifenwechsel 6 <sup>h</sup> 45 <sup>m</sup> —6 <sup>h</sup> 53 <sup>m</sup> .                 |             |
|                  | ez                   | 6    | 24 | 20 |          |              |                                                                                                        |             |
|                  | eL                   | 7    | 20 |    |          |              |                                                                                                        |             |
|                  | F                    | 8    | 20 |    |          |              |                                                                                                        |             |
| " 21<br>(192)    | eL                   | 9    | 8  |    |          |              |                                                                                                        |             |
|                  | F                    | 9    | 12 |    |          |              |                                                                                                        |             |
| " 21<br>(193)    | iP                   | 16   | 45 | 51 | +        |              | (193) $\Delta = 6200$ km.                                                                              |             |
|                  | iS                   | 16   | 53 | 43 |          |              |                                                                                                        |             |
|                  | eLH                  | 17   | 3  |    |          |              |                                                                                                        |             |
|                  | F                    | 17   | 55 |    |          |              |                                                                                                        |             |
| " 23<br>(194)    | iz                   | 9    | 42 | 30 | —        |              |                                                                                                        |             |
|                  | eL                   | 10   | 42 |    |          |              |                                                                                                        |             |
|                  | ME                   | 10   | 45 |    |          |              |                                                                                                        |             |
|                  | Mz                   | 10   | 45 |    |          |              |                                                                                                        |             |
|                  | F                    | 11   | 10 |    |          |              |                                                                                                        |             |
| " 23<br>(195)    | iP                   | 21   | 17 | 17 | +        |              | (195) $\Delta = 9500$ km.                                                                              |             |
|                  | iS                   | 21   | 27 | 46 |          |              |                                                                                                        |             |
|                  | eL                   | 21   | 45 |    |          |              |                                                                                                        |             |
|                  | ME                   | 21   | 50 |    |          |              |                                                                                                        |             |
|                  | F                    | 22   | 30 |    |          |              |                                                                                                        |             |
| " 24<br>(196)    | eL                   | 7    | 38 |    | 22       | 1            | (196) Anfang während Papierwechsel<br>6 <sup>h</sup> 31 <sup>m</sup> —6 <sup>h</sup> 44 <sup>m</sup> . |             |
|                  | MN                   | 7    | 44 |    |          |              |                                                                                                        |             |
|                  | Mz                   | 7    | 44 |    |          |              |                                                                                                        |             |
|                  | F                    | 8    | 0  |    |          |              |                                                                                                        |             |
| " 24<br>(197)    | eL                   | 11   | 16 |    |          |              |                                                                                                        |             |
|                  | F                    | 11   | 30 |    |          |              |                                                                                                        |             |
| " 24<br>(198)    | iP                   | 14   | 5  | 22 | —        |              | (198) $\Delta = 9500$ km.                                                                              |             |
|                  | ePP                  | 14   | 8  | 50 |          |              |                                                                                                        |             |
|                  | iS                   | 14   | 15 | 47 |          |              |                                                                                                        |             |
|                  | eLH                  | 14   | 38 |    |          |              |                                                                                                        |             |
|                  | F                    | 15   | 30 |    |          |              |                                                                                                        |             |
| " 25<br>(199)    | eL                   | 5    | 20 |    |          |              |                                                                                                        |             |
|                  | F                    | 5    | 30 |    |          |              |                                                                                                        |             |
| " 25<br>(200)    | iP <sub>1</sub> '    | 10   | 8  | 13 | +        |              | (200) $\Delta = 16500$ km.                                                                             |             |
|                  | i(pP <sub>1</sub> ') | 10   | 8  | 23 |          |              |                                                                                                        |             |
|                  | iPP                  | 10   | 11 | 40 |          |              |                                                                                                        |             |
|                  | eL                   | 11   | 5  |    |          |              |                                                                                                        |             |
|                  | MN                   | 11   | 10 |    |          |              |                                                                                                        |             |
|                  | F                    | 11   | 40 |    |          |              |                                                                                                        |             |
| " 26<br>(201)    | eL                   | 5    | 19 |    | 25       | 2            |                                                                                                        |             |
|                  | MH                   | 5    | 24 |    |          |              |                                                                                                        |             |
|                  | F                    | 5    | 55 |    |          |              |                                                                                                        |             |



| Datum<br>1941    | Phase                                                                   | Zeit                                                                                                      | Richtung    | Periode | Amplitude | Bemerkungen                                                                                    |
|------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------|---------|-----------|------------------------------------------------------------------------------------------------|
|                  |                                                                         | h m s                                                                                                     |             | s       | $\mu$     |                                                                                                |
| Juli 26<br>(202) | iP<br>iz<br>iPP<br>iSS<br>eLH<br>ME<br>F                                | 20 25 24<br>20 28 47<br>20 29 44<br>20 44 40<br>20 58<br>21 1<br>22 45                                    | —           | 40      | 15        | (202) $\Delta = 11800$ km.<br>Manila: wahrscheinlich im Nero Tief.                             |
| " 27<br>(203)    | eL<br>F                                                                 | 7 16<br>7 18                                                                                              |             |         |           |                                                                                                |
| " 28<br>(204)    | eL<br>F                                                                 | 5 19<br>5 30                                                                                              |             |         |           |                                                                                                |
| " 28<br>(205)    | eL<br>F                                                                 | 17 22<br>18 0                                                                                             |             |         |           |                                                                                                |
| " 29<br>(206)    | e<br>M<br>F                                                             | 8 8<br>8 10 30<br>8 15                                                                                    |             |         |           | (206) Bucarest: $\Delta = 700$ km (Griechenland).                                              |
| " 29<br>(207)    | eL<br>F                                                                 | 17 19<br>17 30                                                                                            |             |         |           |                                                                                                |
| " 30<br>(208)    | iP<br>iPcP<br>ePP<br>iS<br>iPS<br>iScS<br>eSS<br>eSSS<br>eLH<br>Mz<br>F | 2 2 10<br>2 2 43<br>2 4 30<br>2 10 57<br>2 11 16<br>2 12 25<br>2 15 10<br>2 18 30<br>2 24<br>2 34<br>5 10 | +<br>—<br>— | 17      | 30        | (208) $\Delta = 7300$ km.<br>Manila gibt: $60^{\circ}.8N$ $148^{\circ}.5W$ nach USCGS, Alaska. |
| " 30<br>(209)    | eL<br>F                                                                 | 22 0<br>22 12                                                                                             |             |         |           |                                                                                                |
| " 31<br>(210)    | eL<br>F                                                                 | 8 39<br>8 44                                                                                              |             |         |           |                                                                                                |
| Aug. 1<br>(211)  | iP<br>iz<br>eS<br>eL<br>MN<br>F                                         | 3 58 3<br>3 58 8<br>4 6 15<br>4 18<br>4 21<br>4 40                                                        | —<br>—      | 20      | 3         | (211) $\Delta = 6700$ km.                                                                      |

| Datum<br>1941   | Phase                                                           | Zeit                                                                                                 | Richtung | Periode  | Amplitude | Bemerkungen                                                               |
|-----------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------|----------|-----------|---------------------------------------------------------------------------|
|                 |                                                                 | h m s                                                                                                |          | s        | $\mu$     |                                                                           |
| Aug. 2<br>(212) | e<br>F                                                          | 10 1<br>10 10                                                                                        |          |          |           |                                                                           |
| " 2<br>(213)    | iP1'<br>iPP<br>eZ<br>eH<br>i(PPS)<br>iSS<br>eL<br>MN<br>MN<br>F | 12 1 22<br>12 5 40<br>12 16 10<br>12 17 0<br>12 18 50<br>12 25 50<br>12 55<br>13 8<br>13 17<br>16 30 | +<br>—   | 25<br>19 | 90<br>75  | (213) $\Delta = 17500$ km.                                                |
| " 3<br>(214)    | eL<br>MNZ<br>F                                                  | 11 44<br>11 47<br>12 5                                                                               |          | 19       | 2         |                                                                           |
| " 3<br>(215)    | eL<br>F                                                         | 13 56<br>14 5                                                                                        |          |          |           |                                                                           |
| " 4<br>(216)    | iP<br>iz<br>eZ<br>iS<br>eL<br>MN<br>F                           | 11 4 57<br>11 9 57<br>11 11 15<br>11 14 40<br>11 30<br>11 32<br>12 55                                | +<br>—   | 30       | 5         | (216) $\Delta = 8500$ km.<br>Ein zweites Beben mit iP = $11^h 9^m 57^s$ ? |
| " 6<br>(217)    | iH<br>F                                                         | 6 35 32<br>7 25                                                                                      |          |          |           | (217) Z-Registrierung fehlt.<br>Streifenwechsel $6^h 46^m - 6^h 57^m$ .   |
| " 8<br>(218)    | iP<br>eS<br>eL<br>F                                             | 22 12 58<br>22 17 15<br>22 21<br>22 33                                                               |          |          |           | (218) $\Delta = 2700$ km, Klein-Asien?                                    |
| " 9<br>(219)    | eL<br>eL<br>F                                                   | 14 25<br>14 34<br>14 43                                                                              |          |          |           |                                                                           |
| " 9<br>(220)    | eL<br>F                                                         | 15 18<br>15 30                                                                                       |          |          |           |                                                                           |
| " 9<br>(221)    | iP<br>iS<br>eL                                                  | 15 32 9<br>15 36 9<br>15 38                                                                          | +<br>—   |          |           | (221) $\Delta = 2500$ km.<br>F während folgendes Beben.                   |
| " 9<br>(222)    | iP<br>(eS)<br>eL<br>F                                           | 15 38 57<br>15 42 40<br>15 44<br>16 10                                                               | +<br>—   |          |           | (222) $\Delta$ etwa 2200 km.                                              |



| Datum<br>1941   | Phase                                        | Zeit                                                                           | Richtung | Periode | Amplitude | Bemerkungen                                                     |
|-----------------|----------------------------------------------|--------------------------------------------------------------------------------|----------|---------|-----------|-----------------------------------------------------------------|
|                 |                                              | h m s                                                                          |          | s       | $\mu$     |                                                                 |
| Aug. 9<br>(223) | iP<br>iPP<br>iS<br>eL<br>MN<br>F             | 22 29 43<br>22 33 3<br>22 39 40<br>23 2<br>23 5<br>0 5                         |          | 22      | 3         | (223) $\Delta = 9000$ km.                                       |
| " 10<br>(224)   | eL<br>ME<br>Mz<br>F                          | 5 42<br>5 45<br>5 45<br>6 5                                                    |          | 20      | 3<br>2    |                                                                 |
| " 13<br>(225)   | eH<br>eLz<br>eLH<br>F                        | 1 14 15<br>1 18<br>1 22<br>1 35                                                |          |         |           |                                                                 |
| " 14<br>(226)   | e<br>MH<br>Lz<br>F                           | 10 5<br>10 8<br>10 10<br>10 30                                                 |          |         |           | (226) Störung durch Mikroseismen.                               |
| " 15<br>(227)   | iP<br>iz<br>iPP<br>iS<br>iH<br>eL<br>MN<br>F | 6 17 10<br>6 17 21<br>6 18 40<br>6 23 23<br>6 26 30<br>6 28 30<br>6 32<br>10 0 | +<br>+   |         | 12 100    | (227) $\Delta = 4500$ km.<br>Herd in WSW-Richtung, im Atlantik. |
| " 15<br>(228)   | iP<br>e(PP)<br>eL<br>Mz<br>F                 | 16 2 32<br>16 4 10<br>16 13<br>16 18<br>16 45                                  | -        | 18      | 2         | (228) $\Delta = 4000$ km?                                       |
| " 16<br>(229)   | ez<br>ez<br>eL<br>F                          | 3 58 35<br>4 3 25<br>5 8<br>6 0                                                |          |         |           |                                                                 |
| " 19<br>(230)   | iz<br>ez<br>eL<br>Mz<br>F                    | 10 15 29<br>10 19 18<br>11 20<br>11 25<br>11 35                                |          | 18      | 1         |                                                                 |

| Datum<br>1941    | Phase                                           | Zeit                                                                 | Richtung | Periode  | Amplitude | Bemerkungen                                        |
|------------------|-------------------------------------------------|----------------------------------------------------------------------|----------|----------|-----------|----------------------------------------------------|
|                  |                                                 | h m s                                                                |          | s        | $\mu$     |                                                    |
| Aug. 19<br>(231) | iP<br>iS<br>eLH<br>eLz<br>ME<br>Mz              | 16 31 50<br>16 42 5<br>17 0<br>17 11<br>17 14<br>17 14               |          | 18<br>18 | 4<br>5    | (231) $\Delta = 9200$ km.<br>F im folgenden Beben. |
| " 19<br>(232)    | iP1'<br>iPP<br>iScPcP<br>ePPP<br>eL<br>MNz<br>F | 17 59 51<br>18 2 37<br>18 3 27<br>18 5 30<br>18 45<br>18 59<br>20 30 | (-)<br>- |          | 22 5      | (232) $\Delta = 15300$ km.                         |
| " 20<br>(233)    | iz<br>eL<br>MNz<br>F                            | 8 40 15<br>9 45<br>9 50<br>10 40                                     | +        | 19       | 3         |                                                    |
| " 20<br>(234)    | e<br>F                                          | 10 43<br>10 55                                                       |          |          |           |                                                    |
| " 22<br>(235)    | eL<br>F                                         | 0 20<br>0 24                                                         |          |          |           |                                                    |
| " 22<br>(236)    | eL<br>F                                         | 17 45<br>18 0                                                        |          |          |           |                                                    |
| " 22<br>(237)    | (iz)<br>iz<br>eL<br>F                           | 19 16 4<br>19 19 0<br>20 15<br>20 45                                 |          |          |           |                                                    |
| " 26<br>(238)    | eLz<br>F                                        | 18 17<br>18 35                                                       |          |          |           |                                                    |
| " 26<br>(239) 27 | eL<br>F                                         | 23 56<br>0 1                                                         |          |          |           |                                                    |
| " 27<br>(240)    | eL<br>F                                         | 1 18<br>1 30                                                         |          |          |           |                                                    |
| " 28<br>(241)    | eL<br>F                                         | 0 38<br>0 48                                                         |          |          |           |                                                    |
| " 28<br>(242)    | iz<br>F                                         | 20 46 53<br>20 50                                                    | -        |          |           |                                                    |
| " 30<br>(243)    | e<br>F                                          | 4 48<br>4 53                                                         |          |          |           |                                                    |



| Datum<br>1941    | Phase                                            | Zeit                                                                              | Richtung | Periode | Amplitude | Bemerkungen                      |
|------------------|--------------------------------------------------|-----------------------------------------------------------------------------------|----------|---------|-----------|----------------------------------|
|                  |                                                  | h m s                                                                             |          | s       | $\mu$     |                                  |
| Aug. 30<br>(244) | i(PP)<br>e(PS)<br>eLH<br>ME<br>F                 | 9 54 29<br>10 3 40<br>10 26<br>10 29<br>12 0                                      | +        | 30      | 10        | (244) $\Delta$ etwa 12000 km?    |
| " 30<br>(245)    | e(PP)<br>eZ<br>eLH<br>ME<br>F                    | 13 25 20<br>13 29 50<br>13 39 0<br>13 55<br>14 0<br>16 30                         |          | 30      | 8         |                                  |
| " 30<br>(246)    | eLH<br>Mz<br>F                                   | 17 28<br>17 35<br>17 50                                                           |          | 20      | 1         |                                  |
| " 31<br>(247)    | eZ<br>eL<br>Mz<br>F                              | 4 33 11<br>5 38<br>5 45<br>6 30                                                   |          | 22      | 2         |                                  |
| Sept. 1<br>(248) | iz<br>eLH<br>MEZ<br>F                            | 6 34 31<br>7 35<br>7 45<br>8 25                                                   |          | 19      | 2         | (248) Papierwechsel 6h38m—6h48m. |
| " 1<br>(249)     | eZ<br>eL<br>M<br>F                               | 14 27 17<br>14 27 30<br>14 28 30<br>14 36                                         |          |         |           |                                  |
| " 2<br>(250)     | eL<br>F                                          | 0 20<br>0 35                                                                      |          |         |           |                                  |
| " 4<br>(251)     | iP1'<br>iPP<br>eH<br>iH<br>ePS<br>eLH<br>ME<br>F | 10 40 42<br>10 42 36<br>10 43 0<br>10 49 25<br>10 52 30<br>11 17<br>11 23<br>14 0 | +<br>(-) | 35      | 80        | (251) $\Delta = 14000$ km.       |
| " 5<br>(252)     | eL<br>F                                          | 17 41<br>17 47                                                                    |          |         |           |                                  |
| " 5<br>(253)     | ie<br>eLH<br>ME<br>F                             | 23 42 47<br>0 5<br>0 9<br>0 40                                                    |          | 20      | 2         |                                  |

| Datum<br>1941    | Phase                                                                                  | Zeit                                                                                                           | Richtung    | Periode        | Amplitude      | Bemerkungen                                                                           |
|------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------|----------------|----------------|---------------------------------------------------------------------------------------|
|                  |                                                                                        | h m s                                                                                                          |             | s              | $\mu$          |                                                                                       |
| Sept. 6<br>(254) | eL<br>F                                                                                | 3 55<br>4 5                                                                                                    |             |                |                |                                                                                       |
| " 7<br>(255)     | iP<br>eS<br>eLN<br>Mz<br>F                                                             | 0 55 26<br>0 59 4<br>1 0 30<br>1 4<br>1 30                                                                     | +           | 27<br>16       | 6<br>6         | (255) $\Delta = 2200$ km, aus nördlicher Richtung.                                    |
| " 7<br>(256)     | eL<br>MHZ<br>F                                                                         | 23 15<br>23 17<br>23 40                                                                                        |             | 18             | 2              |                                                                                       |
| " 9<br>(257)     | iP1'<br>ePP<br>i(ScPcP)<br>i(PS)<br>i(PS)<br>ePPS<br>eSS<br>eLH<br>ME<br>MH<br>Mz<br>F | 7 38 49<br>7 40 53<br>7 42 9<br>7 50 28<br>7 51 10<br>7 52 40<br>7 59<br>8 17<br>8 20<br>8 31<br>8 31<br>10 25 | +<br>(-)    | 42<br>24<br>24 | 50<br>45<br>55 | (257) $\Delta = 14500$ km.                                                            |
| " 10<br>(258)    | eL<br>F                                                                                | 3 7<br>3 25                                                                                                    |             |                |                |                                                                                       |
| " 10<br>(259)    | iP<br>iS<br>eLH<br>Mz<br>F                                                             | 21 59 55<br>22 4 55<br>22 9<br>22 16<br>23 40                                                                  |             | 14             | 15             | (259) $\Delta = 3300$ km.<br>Die Stadt Van (Türkei) zerstört, nach Zeitungsberichten. |
| " 11<br>(260)    | eH<br>eL<br>MN<br>F                                                                    | 2 27 30<br>2 31<br>2 32<br>2 45                                                                                |             | 17             | 7              |                                                                                       |
| " 12<br>(261)    | iP<br>iPP<br>(eS)<br>iPS<br>ePPS<br>eSS<br>eL<br>F                                     | 7 16 47<br>7 21 27<br>7 29 0<br>7 30 55<br>7 32 0<br>7 37<br>7 52<br>10 0                                      | -<br>+<br>- |                |                | (261) $\Delta = 12500$ km, aus östlicher Richtung?                                    |
| " 12<br>(262)    | eL<br>F                                                                                | 16 20<br>16 25                                                                                                 |             |                |                |                                                                                       |







| Datum<br>1941     | Phase                                                        | Zeit                                                                              | Richtung | Periode | Amplitude | Bemerkungen                                            |
|-------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|---------|-----------|--------------------------------------------------------|
|                   |                                                              | h m s                                                                             |          | s       | $\mu$     |                                                        |
| Sept. 30<br>(285) | eL<br>F                                                      | 9 20<br>9 50                                                                      |          |         |           | (285) und (286): Störung durch Mikro-<br>seismen.      |
| " 30<br>(286)     | e<br>eL<br>F                                                 | 22 3 0<br>22 9<br>22 30                                                           |          |         | 1         |                                                        |
| Okt. 1<br>(287)   | eL<br>F                                                      | 9 10<br>9 30                                                                      |          |         |           |                                                        |
| " 1<br>(288)      | e<br>F                                                       | 14 15<br>14 30                                                                    |          |         |           |                                                        |
| " 1<br>(289)      | eL<br>ME<br>F                                                | 20 24<br>20 28<br>20 36                                                           |          | 23      | 3         |                                                        |
| " 3<br>(290)      | eL<br>F                                                      | 15 14<br>15 35                                                                    |          |         |           |                                                        |
| " 3<br>(291)      | iP<br>iS<br>eSS<br>eLH<br>MN<br>F                            | 16 25 11<br>16 35 7<br>16 40<br>16 46<br>16 51<br>19 10                           | +        |         |           | (291) $\Delta = 8700$ km.<br>Zürich gibt: Kalifornien. |
| " 5<br>(292)      | iPP<br>ePPP<br>e(S')<br>e(PS)<br>eSS<br>eLH<br>ME<br>Mz<br>F | 7 22 34<br>7 24 30<br>7 29 15<br>7 31 40<br>7 36 30<br>7 50<br>7 52<br>8 5<br>9 0 |          | 31      | 40        | (292) $\Delta = 10500$ km.                             |
| " 5<br>(293)      | eP1'<br>eSS<br>eLN<br>MN<br>F                                | 10 30 47<br>10 52<br>11 17<br>11 25<br>13 10                                      |          | 25      | 17        | (293) $\Delta$ etwa 15500 km.                          |
| " 6<br>(294)      | e<br>F                                                       | 7 20<br>8 0                                                                       |          |         |           |                                                        |
| " 7<br>(295)      | eL<br>F                                                      | 11 19 30<br>11 25                                                                 |          |         |           |                                                        |
| " 8<br>(296)      | e<br>F                                                       | 1 10<br>1 15                                                                      |          |         |           |                                                        |

| Datum<br>1941   | Phase                         | Zeit                                         | Richtung | Periode  | Amplitude | Bemerkungen                                        |
|-----------------|-------------------------------|----------------------------------------------|----------|----------|-----------|----------------------------------------------------|
|                 |                               | h m s                                        |          | s        | $\mu$     |                                                    |
| Okt. 8<br>(297) | eP<br>eS<br>e(PS)<br>eL<br>ME | 4 34 35<br>4 45 5<br>4 46 0<br>5 0<br>5 6    |          |          |           | (297) $\Delta = 9500$ km.<br>F im folgenden Beben. |
| " 8<br>(298)    | iP<br>ePP<br>iS<br>eLH<br>ME  | 5 37 25<br>5 40 50<br>5 48 0<br>6 12<br>6 15 | —        |          |           | (298) $\Delta = 9500$ km.<br>F im folgenden Beben. |
| " 8<br>(299)    | e<br>F                        | 7 10<br>7 20                                 |          |          |           |                                                    |
| " 8<br>(300)    | eLH<br>MN<br>F                | 15 58<br>16 1<br>16 40                       |          | 33       | 8         |                                                    |
| " 8<br>(301)    | eLH<br>F                      | 20 0<br>20 25                                |          |          |           |                                                    |
| " 9<br>(302)    | eL<br>F                       | 10 36<br>10 50                               |          |          |           |                                                    |
| " 16<br>(303)   | eL<br>F                       | 5 54<br>6 10                                 |          |          |           |                                                    |
| " 16<br>(304)   | eL<br>MN<br>F                 | 16 28<br>16 31<br>16 50                      |          |          |           | (304) Störung durch Mikro-<br>seismen.             |
| " 20<br>(305)   | eL<br>ME<br>F                 | 21 29<br>21 31<br>21 40                      |          | 23       | 4         |                                                    |
| " 20<br>(306)   | eL<br>ME<br>F                 | 21 46<br>21 47<br>22 5                       |          | 25       | 6         |                                                    |
| " 20<br>(307)   | eL<br>F                       | 22 9<br>22 16                                |          |          |           |                                                    |
| " 23<br>(308)   | eL<br>F                       | 21 47<br>22 0                                |          |          |           |                                                    |
| " 26<br>(309)   | eL<br>MH<br>Mz<br>F           | 16 25<br>16 27<br>16 34<br>16 45             |          | 20<br>14 | 10<br>7   | (309) Mikro-<br>seismen.                           |



| Datum<br>1941    | Phase                                                              | Zeit |    |    | Richtung | Periode<br>s | Amplitude<br>$\mu$                                                                               | Bemerkungen |
|------------------|--------------------------------------------------------------------|------|----|----|----------|--------------|--------------------------------------------------------------------------------------------------|-------------|
|                  |                                                                    | h    | m  | s  |          |              |                                                                                                  |             |
| Okt. 29<br>(310) | eL<br>F                                                            | 8    | 16 |    |          |              |                                                                                                  |             |
| " 31<br>(311)    | eL<br>MN<br>Mz<br>F                                                | 7    | 9  |    | 24<br>14 | 20<br>8      |                                                                                                  |             |
| " 31<br>(312)    | eL<br>F                                                            | 13   | 23 |    |          |              |                                                                                                  |             |
| " 31<br>(313)    | ez<br>ez<br>eL<br>ME<br>MEZ<br>F                                   | 17   | 11 | 12 |          |              |                                                                                                  |             |
| Nov. 5<br>(314)  | eL<br>F                                                            | 12   | 22 |    |          |              |                                                                                                  |             |
| " 5<br>(315)     | EZ<br>eL<br>ME<br>F                                                | 13   | 25 | 0  | 25       | 9            |                                                                                                  |             |
| " 5<br>(316)     | eP<br>ePP<br>eS'<br>eL<br>ME<br>F                                  | 17   | 52 | 19 | +        |              | (316) $\Delta = 11000$ km.<br>Zürich: Herd im Gebiet der Philippinen,<br>nach Zeitungsberichten. |             |
| " 5<br>(317)6    | e<br>F                                                             | 23   | 56 |    |          |              |                                                                                                  |             |
| " 6<br>(318)     | eLH<br>eLz<br>Mz<br>F                                              | 8    | 0  |    | 29       | 20           |                                                                                                  |             |
| " 6<br>(319)     | iP<br>i(pP)<br>eS<br>i(sS)<br>eSS<br>eSSS<br>eLH<br>eLz<br>MN<br>F | 12   | 41 | 23 | (+)<br>+ |              | (319) $\Delta = 8000$ km.                                                                        |             |

| Datum<br>1941    | Phase                                                           | Zeit |    |    | Richtung | Periode<br>s | Amplitude<br>$\mu$ | Bemerkungen                                                                                                                    |
|------------------|-----------------------------------------------------------------|------|----|----|----------|--------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------|
|                  |                                                                 | h    | m  | s  |          |              |                    |                                                                                                                                |
| Nov. 8<br>(320)9 | iPP<br>iS'<br>iS<br>iPS<br>ePPS<br>eSS<br>eSSS<br>eL<br>MN<br>F | 23   | 56 | 5  | +        |              |                    | (320) iP unter Papierklemme.<br>$\Delta = 12000$ km, Herd im Gebiet von Niederl.<br>Ost-Indien?                                |
| " 12<br>(321)    | eL<br>F                                                         | 7    | 35 |    |          |              |                    |                                                                                                                                |
| " 12<br>(322)    | iP<br>iS<br>eLN<br>F                                            | 10   | 10 | 35 | +        | 33           | 22                 | (322) $\Delta = 3000$ km, Herd in östlicher<br>Richtung.<br>Zürich: Erzindjan nach Zeitungsberichten.<br>Starke Mikroseeismen. |
| " 14<br>(323)    | eL<br>F                                                         | 3    | 42 |    |          |              |                    |                                                                                                                                |
| " 15<br>(324)    | i(PP)<br>e(PS)<br>eLz<br>F                                      | 4    | 39 | 26 | +        |              |                    | (324) $\Delta = 12000$ km?                                                                                                     |
| " 18<br>(325)    | i(PP)<br>ez<br>i(PS)<br>i(PPS)<br>eSS<br>eL<br>MN<br>Mz<br>F    | 10   | 34 | 45 | -        |              |                    | (325) $\Delta = 12000$ km?                                                                                                     |
| " 18<br>(326)    | iP<br>iPP<br>ePPP<br>iS<br>iPS<br>eSS<br>eSSS<br>eL<br>ME<br>F  | 16   | 58 | 58 | +        | 20<br>20     | 35<br>40           | (326) $\Delta = 9300$ km, Japan.                                                                                               |
| " 20<br>(327)    | e<br>F                                                          | 14   | 25 |    |          | 28           | 600                |                                                                                                                                |



| Datum<br>1941    | Phase                                                                   | Zeit                                                                                                  | Richtung                   | Periode | Amplitude | Bemerkungen                                                                                                                                                                                                                                        |
|------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------|---------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                                                                         | h m s                                                                                                 |                            | s       | $\mu$     |                                                                                                                                                                                                                                                    |
| Nov. 20<br>(328) | eL<br>MH<br>F                                                           | 16 0<br>16 5<br>16 50                                                                                 |                            | 40      | 8         | Konstantenbestimmung:<br>21 November 7 <sup>h</sup> 22 <sup>m</sup> —12 <sup>h</sup> 30 <sup>m</sup> .                                                                                                                                             |
| " 22<br>(329)    | e<br>F                                                                  | 8 26<br>9 0                                                                                           |                            |         |           |                                                                                                                                                                                                                                                    |
| " 23<br>(330)    | e<br>F                                                                  | 17 30<br>17 35                                                                                        |                            |         |           |                                                                                                                                                                                                                                                    |
| " 24<br>(331)    | eH<br>eH<br>eLH<br>MH<br>F                                              | 17 4 0<br>17 9 30<br>17 23<br>17 29<br>18 10                                                          |                            | 32      | 7         |                                                                                                                                                                                                                                                    |
| " 24<br>(332)    | e<br>F                                                                  | 18 54<br>19 5                                                                                         |                            |         |           |                                                                                                                                                                                                                                                    |
| " 24<br>(333)    | iP1'<br>iP2'<br>iPP<br>iz<br>ePScPeS<br>iPPS<br>eSS<br>eSSS<br>eLH<br>F | 22 6 12<br>22 6 42<br>22 10 17<br>22 19 13<br>22 20 40<br>22 23 44<br>22 30<br>22 35<br>22 59<br>0 30 | +<br>-<br>+<br>+<br>+<br>+ |         |           | (333) $\Delta = 17300$ km.                                                                                                                                                                                                                         |
| " 25<br>(334)    | eL<br>F                                                                 | 16 3<br>16 40                                                                                         |                            |         |           |                                                                                                                                                                                                                                                    |
| " 25<br>(335)    | iP<br>iS<br>F                                                           | 18 8 59<br>18 13 0<br>23 0                                                                            | +                          |         |           | (335) $\Delta = 2450$ km, Herd in der Nähe der Azoren.<br>Galitzin unentwirrbar, iS nach Bosch. Schreibfedern von Wiechert abgeworfen nach iP, von Bosch nach iS.<br>Bewegungen verspürt in Rotterdam und Amsterdam.<br>(337) Starke Mikroseismen. |
| " 26<br>(336)    | e<br>F                                                                  | 1 18<br>1 30                                                                                          |                            |         |           |                                                                                                                                                                                                                                                    |
| " 27<br>(337)    | e<br>eLH<br>F                                                           | 9 5<br>9 14<br>10 0                                                                                   |                            |         |           |                                                                                                                                                                                                                                                    |
| " 28<br>(338)    | iH<br>eL<br>F                                                           | 12 38 22<br>12 42<br>13 5                                                                             |                            |         |           | Konstantenbestimmung:<br>28 November 7 <sup>h</sup> 19 <sup>m</sup> —10 <sup>h</sup> 38 <sup>m</sup> .                                                                                                                                             |
| " 28<br>(339)    | eL<br>F                                                                 | 14 54<br>15 0                                                                                         |                            |         |           |                                                                                                                                                                                                                                                    |

| Datum<br>1941    | Phase                                   | Zeit                                                                | Richtung | Periode | Amplitude | Bemerkungen                                                                             |
|------------------|-----------------------------------------|---------------------------------------------------------------------|----------|---------|-----------|-----------------------------------------------------------------------------------------|
|                  |                                         | h m s                                                               |          | s       | $\mu$     |                                                                                         |
| Nov. 29<br>(340) | e<br>F                                  | 1 16<br>1 20                                                        |          |         |           |                                                                                         |
| Dez. 1<br>(341)  | e<br>F                                  | 8 3<br>8 10                                                         |          |         |           |                                                                                         |
| " 1<br>(342)     | e(PP)<br>eLH<br>eLz<br>MNZ<br>F         | 20 26 27<br>20 53<br>21 0<br>21 2<br>21 45                          | +        | 20      | 5         |                                                                                         |
| " 2<br>(343)     | eL<br>F                                 | 5 17<br>5 25                                                        |          |         |           |                                                                                         |
| " 4<br>(344)     | e<br>F                                  | 15 18<br>15 30                                                      |          |         |           |                                                                                         |
| " 5<br>(345)     | iP<br>ePP<br>iS<br>iSS<br>eL<br>ME<br>F | 20 59 22<br>21 2 46<br>21 9 16<br>21 14 26<br>21 25<br>21 29<br>1 0 | +        | 25      | 220       | (345) $\Delta = 8700$ km, Mittel-Amerika.<br>Herd in Costa Rica nach Zeitungsberichten. |
| " 6<br>(346)     | eL<br>MN<br>F                           | 2 2<br>2 3<br>2 40                                                  |          | 23      | 4         |                                                                                         |
| " 6<br>(347)     | iP<br>eS<br>eL<br>F                     | 21 37 14<br>21 47 0<br>22 0<br>23 30                                | (-)      |         |           | (347) $\Delta = 8500$ km.<br>Störung durch Mikroseismen.                                |
| " 8<br>(348)     | eL<br>ME<br>F                           | 8 23<br>8 27<br>8 55                                                |          | 20      | 7         |                                                                                         |
| " 9<br>(349)     | eL<br>F                                 | 3 39<br>4 10                                                        |          |         |           |                                                                                         |
| " 10<br>(350)    | e<br>F                                  | 0 46<br>0 52                                                        |          |         |           |                                                                                         |
| " 13<br>(351)    | e<br>eL<br>F                            | 6 25<br>6 27 30<br>6 40                                             |          |         |           | (351) Sehr starke Mikroseismen.                                                         |



| Datum<br>1941    | Phase | Zeit |    |    | Richtung | Periode<br>s | Amplitude<br>$\mu$        | Bemerkungen                                                                        |
|------------------|-------|------|----|----|----------|--------------|---------------------------|------------------------------------------------------------------------------------|
|                  |       | h    | m  | s  |          |              |                           |                                                                                    |
| Dez. 16<br>(352) | iP    | 19   | 32 | 21 | +        | 20           | 175'                      | (352) $\Delta = 9500$ km.<br>Herdgebiet Tainan, S-Formosa, nach Zeitungsberichten. |
|                  | ePP   | 19   | 35 | 50 |          |              |                           |                                                                                    |
|                  | iS    | 19   | 42 | 55 |          |              |                           |                                                                                    |
|                  | eSS   | 19   | 48 | 40 |          |              |                           |                                                                                    |
|                  | eL    | 20   | 2  |    |          |              |                           |                                                                                    |
|                  | MH    | 20   | 8  |    |          |              |                           |                                                                                    |
|                  | F     | 22   | 0  |    |          |              |                           |                                                                                    |
| " 18<br>(353)    | e     | 20   | 30 |    |          |              |                           |                                                                                    |
|                  | F     | 20   | 45 |    |          |              |                           |                                                                                    |
| " 22<br>(354)    | eL    | 14   | 10 |    | 16       | 3            |                           |                                                                                    |
|                  | MN    | 14   | 13 |    |          |              |                           |                                                                                    |
|                  | F     | 14   | 20 |    |          |              |                           |                                                                                    |
| " 23<br>(355)    | eL    | 12   | 4  |    |          |              |                           |                                                                                    |
|                  | F     | 12   | 13 |    |          |              |                           |                                                                                    |
| " 24<br>(356)    | eH    | 15   | 35 | 20 |          |              |                           |                                                                                    |
|                  | eH    | 15   | 41 | 10 |          |              |                           |                                                                                    |
|                  | eLH   | 15   | 48 |    |          |              |                           |                                                                                    |
|                  | F     | 17   | 0  |    |          |              |                           |                                                                                    |
| " 26<br>(357)    | e     | 10   | 10 |    |          |              |                           |                                                                                    |
|                  | F     | 10   | 20 |    |          |              |                           |                                                                                    |
| " 26<br>(358)    | eP    | 14   | 59 | 52 |          |              | (358) $\Delta = 8500$ km. |                                                                                    |
|                  | iS    | 15   | 9  | 34 |          |              |                           |                                                                                    |
|                  | iSS   | 15   | 14 | 27 |          |              |                           |                                                                                    |
|                  | eSSS  | 15   | 18 |    |          |              |                           |                                                                                    |
|                  | eLH   | 15   | 26 |    |          |              |                           |                                                                                    |
|                  | MN    | 15   | 30 |    |          |              |                           |                                                                                    |
|                  | F     | 17   | 40 |    |          |              |                           |                                                                                    |
| " 27<br>(359)    | iP    | 18   | 21 | 55 |          |              | (359) $\Delta = 2200$ km. |                                                                                    |
|                  | iS    | 18   | 25 | 37 |          |              |                           |                                                                                    |
|                  | eL    | 18   | 27 |    |          |              |                           |                                                                                    |
|                  | F     | 19   | 0  |    |          |              |                           |                                                                                    |
| " 31<br>(360)    | i(P)  | 17   | 42 | 4  | -        | 25           | 8                         | (360) Zwei Beben?                                                                  |
|                  | iS    | 17   | 59 | 51 |          |              |                           |                                                                                    |
|                  | eL    | 18   | 19 |    |          |              |                           |                                                                                    |
|                  | ME    | 18   | 23 |    |          |              |                           |                                                                                    |
|                  | F     | 19   | 0  |    |          |              |                           |                                                                                    |
| " 31<br>(361)    | eL    | 20   | 25 |    |          |              |                           |                                                                                    |
|                  | F     | 21   | 10 |    |          |              |                           |                                                                                    |