

Zentralanstalt für Meteorologie und Geodynamik

Publikation Nr. 182

**Seismische Aufzeichnungen in Wien  
1977**

DK 550.340.61(436)

WIEN 1978

**An die**

**Zentralanstalt für Meteorologie  
und Geodynamik**

**Hohe Warte 38**

**A-1190      Wien      Austria**



Wir bitten um Rücksendung dieser Empfangsbestätigung.

Please return this receipt.

Renvoyez cette carte, s'il vous plait.

Rogamos a retornar esa carta.

Просим возвращения этой расписки в получении.

Wir haben erhalten:

Jahrbuch

We have received:

Erdmagnetische Berichte

Nous avons reçu:

Seismische Berichte 1972

Hemos recibido:

Aerologische Berichte

С благодарностью получили:

Ergebnisse von Strahlungsmessungen in Österreich

Sonderdrucke

Es fehlen uns:

We should like to receive:

Nous vous prions d'envoyer:

Nos faltan:

Пошлите просим:

Genaue Adresse: Exact address: Adresse exacte: Direccion exacta: Точный адрес:

Datum:

Date:

Fecha:

Число:

Unterschrift:

Signature:

Firma:

Подпись:

Zentralanstalt für Meteorologie und Geodynamik in Wien

SEISMISCHE AUFZEICHNUNGEN in WIEN

1 9 7 7

A. W i e n - K o b e n z l (VKA)

Lage: B =  $48^{\circ}15.9'N$  L =  $16^{\circ}19.1'E$  h = 400 m

Untergrund: Sandstein

| Seismograph                  | Komponente | $T_s$            | $T_g$             | $D_s$ | $D_g$ | $V_m$ | Registrier-<br>geschw. |
|------------------------------|------------|------------------|-------------------|-------|-------|-------|------------------------|
| SPRENG-<br>NETHER<br>S- 7000 | N, E       | 1.3 <sup>s</sup> | 1.46 <sup>s</sup> | 4     | 0.65  | 5000  | 30 mm/min              |

STUTTGART Z (1.5) - - - 3500 30

Die Registrierung der N-Komponente des Sprengnether-Seismographen ist wegen mechanischer Mängel am Registriersystem seit 1. März unterbrochen.

B. W i e n - H o h e W a r t e (VIE)

Lage: B =  $48^{\circ}14.9'N$  L =  $16^{\circ}21.7'E$  h = 191.7 m  
h\* = 198 m

Untergrund: Lößartiger Lehm, darunter Tegel

| Seismograph                 | Komponente | $T_s$             | $T_g$             | $D_s$ | $D_g$ | $\epsilon: 1$ | $V_m$      | Registrier-<br>geschw. |
|-----------------------------|------------|-------------------|-------------------|-------|-------|---------------|------------|------------------------|
| SPRENG-<br>NETHER<br>S-7000 | Z          | 30.0 <sup>s</sup> | 0.95 <sup>s</sup> | 0.50  | 0.50  | -             | 8000       | 15 mm/min              |
| * CONRAD<br>24 kg           | E          | 2.15              | -                 | -     | -     | 1.67          | 14         | 20                     |
| * WIECHERT<br>1000 kg       | N<br>E     | 5.5               | -                 | -     | -     | 3.5           | 180<br>130 | 20                     |
| * WIECHERT<br>1300 kg       | Z          | 2.25              | -                 | -     | -     | 4             | 205        | 20                     |

Die Wiechert-Seismographen wurden wegen technischer Gebrechen am 10. März außer Betrieb gesetzt.



Zentralanstalt für Meteorologie und Geodynamik in Wien

Seite 1  
1977 - 01

VKA, VIE

Seismische Aufzeichnungen in Wien

- J ä n n e r 1 9 7 7 -

| Tag | Phase         | U T C        | D (km) | B e m e r k u n g e n              |
|-----|---------------|--------------|--------|------------------------------------|
| 01  | VKA ei(P)     | 06 36 15.9   |        | schwach USGS: Ryukyu-Inseln        |
| 01  | VKA (e)       | 17 09(59)    |        | CSEM: Friaul                       |
|     | ePb           | 10 01        |        |                                    |
|     | eiPg          | 10 05.5 G    |        |                                    |
|     | eiSb          | 10 36        |        |                                    |
|     | iSg           | 10 44        |        |                                    |
|     | Im            | 10.8         |        |                                    |
|     | VIE ImV       | 17 10.9      |        |                                    |
| 01  | VKA eipP      | 19 15 55.6   |        | MPPV = 6.8 MLV = 6.0               |
|     | ei            | 19 18        |        | USGS: Ceram-See                    |
|     | eiPP          | 20 13        |        |                                    |
|     | i             | 20 28        |        |                                    |
|     | eiPPP         | 22 24        |        |                                    |
|     | VIE ei(PKIKP) | 19 20 06     |        |                                    |
|     | ei            | 20 20        |        |                                    |
|     | ipPSP         | 30 29        |        |                                    |
|     | ImV           | 20 06        |        |                                    |
| 01  | VKA eiP       | 21 49 01.6 G | 5900   | MPV= 6.1 MLV= 6.0                  |
|     | eisP          | 49 19        |        | USGS: Tsinghai, China              |
|     | VIE eiP       | 21 49 01.5 U |        |                                    |
|     | ImV           | 22 14        |        |                                    |
| 01  | VKA e         | 22 06 28     |        | schwach                            |
|     | ei            | 08 40        |        |                                    |
|     | VIE ei        | 22 04 18     |        |                                    |
|     | i             | 09 15        |        |                                    |
| 01  | VKA e(P)      | 22 31 30     |        | schwach CSEM: östliche Türkei      |
| 02  | VKA e(PKIKP)  | 10 13 55     |        | MLV= 6.2 USGS: bei der Insel Sumba |
|     | eipPP         | 14 14        |        |                                    |
|     | VIE ePP       | 10 14 04     |        |                                    |
|     | ImV           | 11 03        |        |                                    |
| 02  | VKA eiP       | 19 42 13.3 G |        | schwach CSEM: östliche Türkei      |
| 03  | VKA e         | 06 25 16     |        | schwach Fernbeben                  |
| 04  | VKA eiP       | 15 09 52.2 D |        | USGS: bei Oaxaca, Mexiko           |
| 04  | VKA eiP       | 16 15 48.1 D |        | schwach CSEM: Luristan, Iran       |
| 04  | VKA eiP       | 20 54 37.7 D |        | schwach USGS: Tansania             |



| Tag | Phase                                                                         | U T C                                                                           | D (km) | B e m e r k u n g e n                                                |
|-----|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------|----------------------------------------------------------------------|
| 05  | VKA eiP<br>ei<br>VIE eiP<br>ImV                                               | 05 51 48.8 D<br>53 31<br>05 51 50 R<br>06 10                                    | 4100   | MPV= 5.5 MLV= 4.8<br>CSEM: Laristan, Iran                            |
| 05  | VIE ImV                                                                       | 11 36                                                                           |        | USGS: Raum Bonin-Inseln                                              |
| 05  | VKA eiPKIKP<br>eiPKHKP<br>iPKP2<br>eipPKP<br>VIE eiPKIKP<br>eiPKHKP<br>eiPKP2 | 13 48 30.1 C<br>48 36 D<br>48 46 C<br>50 54<br>13 48 30 R<br>48 36 R<br>48 46 U | 16700  | USGS: 13 29 48.1 20.8°S, 178.3°W<br>bei den Fidschi-Inseln h= 575 km |
| 06  | VKA ei(PKP)                                                                   | 04 28 54.7                                                                      |        | USGS: Raum Fidschi-Inseln h= 621 km                                  |
| 06  | VKA eiPKIKP<br>i<br>eiPP<br>e<br>VIE ei<br>i(PP)<br>ImV                       | 06 30 26.7 D<br>30 33<br>31 38<br>34 40<br>06 30 32<br>31 44<br>07 29           | 13000  | MPPV= 7.1 MLV= 6.7<br>USGS: Raum Papua-Neuguinea                     |
| 06  | VKA eiP                                                                       | 08 07 45.9 D                                                                    |        | schwach USGS: Kurilen                                                |
| 06  | VKA ei                                                                        | 16 14 30.8                                                                      |        | schwach USGS: Aleuten                                                |
| 06  | VIE (ImV)                                                                     | 17 47                                                                           |        | schwach                                                              |
| 06  | VKA eiP                                                                       | 18 42 51.2 D                                                                    |        | USGS: Raum Tanganyika-See                                            |
| 07  | VKA iPg<br>iSg                                                                | 09 15 05.4 C<br>15 19                                                           |        | MOLLN: Pg 09 15 19                                                   |
| 07  | VKA i<br>ei(Sg)                                                               | 11 44 02.4<br>44 07                                                             |        | schwach                                                              |
| 07  | VKA eP<br>VIE ImV                                                             | 14 50 47<br>15 25                                                               |        | USGS: Südatlantik-Rücken                                             |
| 07  | VKA ei(SKS)                                                                   | 17 41 34.2                                                                      |        | USGS: südlich der Fidschi-Inseln                                     |
| 07  | VKA eiP<br>VIE ImV                                                            | 19 49 12.4 C<br>20 34                                                           |        | MLV= 5.5 USGS: bei Taiwan                                            |
| 08  | VKA eiP<br>VIE (ImV)                                                          | 06 53 55.8 C<br>07 39                                                           |        | USGS: Luzon, Philippinen                                             |
| 08  | VKA eipPKIKP<br>VIE ImV                                                       | 08 00 14.7<br>08 59                                                             |        | MLV= 5.9 USGS: Santa-Cruz-Inseln                                     |
| 08  | VKA eiPKP                                                                     | 21 56 43.5 C                                                                    |        | USGS: Raum Loyalty-Inseln                                            |
| 09  | VKA eiP<br>VIE eiP                                                            | 09 38 06.8 C<br>09 38 07                                                        |        | USGS: Südatlantik-Rücken                                             |

| Tag | Phase                                                                                   | U T C                                                                                                           | D (km) | B e m e r k u n g e n                                                 |
|-----|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------|
| 09  | VKA eiPn<br>iPg<br>iSn<br>iSg<br>VIE eiPg<br>i(Sg)<br>ImV                               | 14 27 15.1 D<br>27 25<br>27 50<br>28 02<br>14 27 26 U<br>28 04<br>28.3                                          | 325    | MLV= 4.1 CSEM: Friaul                                                 |
| 10  | VKA eiPKHKP<br>eiPKP2                                                                   | 09 50 28.9<br>50 38 D                                                                                           |        | USGS: Raum Fidschi-Inseln h= 653 km                                   |
| 10  | VKA eiPKP2                                                                              | 23 04 08.0 D                                                                                                    |        | USGS: Raum Kermadec-Inseln                                            |
| 10  | VKA eiPKP<br>VIE eiPKP                                                                  | 23 37 45.3 D<br>23 37 46 R                                                                                      |        | USGS: Loyalty-Inseln                                                  |
| 11  | VKA iP                                                                                  | 14 59 50.9 C                                                                                                    |        | schwach USGS: Arabisches Meer                                         |
| 12  | VKA ei(P)                                                                               | 01 15 18.4                                                                                                      |        | schwach                                                               |
| 12  | VKA ei(Pg)<br>ei(Sg)                                                                    | 09 21 35.8<br>21 55                                                                                             |        | WIEN: möglicherweise West-Ungarn                                      |
| 12  | VKA eiP<br>eipP<br>VIE eiP<br>ipP<br>eiS                                                | 23 47 33.2 D<br>48 18<br>23 47 34<br>48 18<br>57 44                                                             | 9400   | MPV= 5.6<br>USGS: Nord-Sumatra h= 178 km                              |
| 13  | VKA eiPn<br>iPb<br>iPg<br>Im<br>VIE eiPn<br>eiPg<br>iPgPg<br>eiSn<br>ei<br>iSgSg<br>ImV | 09 20 18.3 D<br>20 30<br>20 39<br>21.9<br>09 20 18 R<br>20 39.5<br>20 41.5<br>21 13<br>21 15.5<br>21 48<br>22.7 | 530    | MLV= 4.8<br>CSEM: 09 19 08.2 43.6°N, 17.2°E<br>Dalmatien, Jugoslawien |
| 14  | VKA eiPKIKP                                                                             | 11 07 49.1 D                                                                                                    |        | schwach USGS: bei Neu-Irland                                          |
| 14  | VKA iPg<br>i<br>iSg<br>ImV                                                              | 12 30 19.9 C<br>30 22.1<br>30 32.1<br>30 37                                                                     |        | WIEN: Kleine Karpaten, ČSSR                                           |
| 14  | VIE ImV                                                                                 | 12 43                                                                                                           |        | schwach USGS: Tibet                                                   |
| 14  | VKA e<br>eiPKP2<br>VIE eiPKP2                                                           | 18 17 40<br>17 43<br>18 17 43                                                                                   |        | USGS: Raum Fidschi-Inseln h= 350 km                                   |
| 15  | VKA e<br>i<br>iSg                                                                       | 00 31 02.5<br>32 17<br>32 44                                                                                    |        | CSEM: Apennin, Italien                                                |



## Seismische Aufzeichnungen in Wien

VKA, VIE

| Tag | Phase         | U T C        | D (km) | Bemerkungen                        |
|-----|---------------|--------------|--------|------------------------------------|
| 16  | VKA eiP       | 09 19 29.6 D |        | CSEM: Peloponnes, Griechenland     |
| 16  | VKA e         | 11 29 26     |        | schwach Fernbeben                  |
| 17  | VKA eP        | 05 24 12     | 2400   | MPV= 5.2 MLV= 4.8                  |
|     | eiP           | 24 22        |        | CSEM: östliche Türkei              |
|     | iPP           | 24 35        |        |                                    |
|     | VIE ei        | 05 24 20.5   |        |                                    |
|     | ePcP          | 28 14        |        |                                    |
|     | ImV           | 37           |        |                                    |
| 17  | VKA eiP       | 06 36 40.2 D |        | MPPV= 6.2 MLV= 6.1                 |
|     | i(P)          | 40 25        |        | USGS: bei den Bonin-Inseln         |
|     | VIE eP        | 06 36 42     |        |                                    |
|     | ei(P)         | 40 24        |        |                                    |
|     | ePS           | 48 46        |        |                                    |
|     | ImV           | 07 21        |        |                                    |
| 17  | VKA eiPKP     | 19 24 11.8 C |        | MLV= 5.8 USGS: Raum Fidschi-Inseln |
|     | e             | 28 07        |        |                                    |
|     | VIE eiPKP     | 19 24 12     |        |                                    |
|     | ImV           | 20 30        |        |                                    |
| 17  | VKA eiP       | 21 41 23.4   | 11700  | MLV= 6.1                           |
|     | iPKIKP        | 45 36 C      |        | USGS: 21 27 12.6 24.8°S, 68.7°W    |
|     | iPKKP         | 57 10        |        | Grenze Chile-Argentinien           |
|     | iPKKP         | 57 29        |        |                                    |
|     | eiPKPPKP      | 22 05 29     |        |                                    |
|     | VIE eiP       | 21 41 24     |        |                                    |
|     | eiPKIKP       | 45 36        |        |                                    |
|     | eiSP          | 54 48        |        |                                    |
|     | ImV           | 22 29        |        |                                    |
| 18  | VKA eiPKIKP   | 06 01 44.2   |        | MLV= 6.1                           |
|     | VIE ei(PKIKP) | 06 01 46     |        | USGS: Cook-Straße, Neuseeland      |
|     | ImV           | 07 22        |        |                                    |
| 18  | VKA ei(P)     | 08 54 16.1   |        | schwach                            |
| 18  | VKA eiP       | 08 54 42.7 D |        | CSEM: Luristan, Iran h= 71 km      |
|     | VIE ImV       | 09 09        |        |                                    |
| 18  | VKA i         | 11 32 40.2   |        | MOLLN: Pg 11 31 07.9               |
|     | i(Sg)         | 32 43        |        |                                    |
| 18  | VKA ei(P)     | 20 50 35.7   |        | CSEM: östliches Mittelmeer         |
| 19  | VKA eiP       | 00 56 03.4 C | 6300   | MPV= 6.4 MLV= 6.0                  |
|     | i             | 56 10        |        | USGS: 00 46 18.3 37.0°N, 95.7°E    |
|     | eiPPP         | 59 29        |        | Tsinghai, China                    |
|     | eiS           | 01 04 11     |        |                                    |
|     | VIE eiP       | 00 56 03.5 U |        |                                    |
|     | i             | 56 11        |        |                                    |
|     | ei            | 01 08 36     |        |                                    |
|     | ei            | 17 37        |        |                                    |
|     | ImV           | 22           |        |                                    |

## Seismische Aufzeichnungen in Wien

VKA, VIE

| Tag | Phase       | U T C        | D (km) | Bemerkungen                           |
|-----|-------------|--------------|--------|---------------------------------------|
| 19  | VKA ePKS    | 03 57 14     |        | schwach USGS: Salomon-Inseln          |
| 19  | VKA eP      | 14 07 45     |        | MLV= 5.8 USGS: Mindanao, Philippinen  |
|     | ipP         | 07 59        |        |                                       |
|     | ei          | 11 35        |        |                                       |
|     | VIE eiPP    | 14 11 51     |        |                                       |
|     | e(PKP)      | 12 06        |        |                                       |
|     | ImV         | 15 02        |        |                                       |
| 19  | VKA eiP     | 20 49 59.5 D |        | MLV= 4.5                              |
|     | VIE (i)P    | 20 50 01 R   |        | CSEM: Grenze Algerien-Tunesien        |
|     | eiPPP       | 50 19        |        |                                       |
|     | ImV         | 56           |        |                                       |
| 20  | VKA ei      | 03 24 11.4   |        | schwach auch in KAŠPERSKÉ HORY u.a.   |
|     | ei(Sg)      | 24 34        |        |                                       |
|     | ImV         | 24.8         |        |                                       |
| 20  | VKA e       | 04 40 21     |        | schwach CSEM: Island                  |
| 20  | VKA e       | 08 01 34     |        | WIEN: Nordböhmen, ČSSR                |
|     | i(Sg)       | 01 38        |        |                                       |
|     | ImV         | 01.8         |        |                                       |
| 20  | VKA eiP     | 20 22 36.9 D |        | schwach USGS: bei Taiwan              |
| 20  | VIE ImV     | 21 50        |        | USGS: Mindanao, Philippinen           |
| 21  | VKA ePKIKP  | 06 29 37     | 16400  | USGS: 06 11 05.6 18.0°S, 178.4°W      |
|     | ePKHKP      | 29 41        |        | Raum Fidschi-Inseln h= 604 km         |
|     | iPKP2       | 29 47        |        |                                       |
|     | eiPKIKP     | 32 01        |        |                                       |
|     | VIE eiPKHKP | 06 29 41     |        |                                       |
| 21  | VKA ei(Sg)  | 09 37 39.7   |        | schwach auch in GRÄFENBERG            |
| 22  | VKA ei(PKP) | 05 50 12.1   |        | schwach USGS: Tonga-Inseln            |
| 23  | VIE ImV     | 02 56        |        | MLV= 5.6 USGS: Neue Hebriden          |
| 23  | VKA iPg     | 10 59 51.6   |        | COLIM: West-Polen                     |
|     | iSg         | 11 00 35     |        |                                       |
|     | ImV         | 00.8         |        |                                       |
| 24  | VKA ei(Sg)  | 13 00 43.2   |        | MOLLN: Pg 13 00 39                    |
| 24  | VKA iPg     | 13 02 35.4   | 75     | WIEN: Kleine Karpaten, ČSSR           |
|     | i           | 02 58        |        |                                       |
|     | ImV         | 03.3         |        |                                       |
| 24  | VKA ei      | 16 03 13.6   |        | schwach                               |
| 25  | VKA eP      | 06 45 02     |        | USGS: Zentraler Mittelatlantik-Rücken |
|     | VIE (ImV)   | 07 04        |        |                                       |
| 25  | VKA ei      | 12 33 06.2   |        | MOLLN: Pg 12 32 24.5                  |
|     | i(Sg)       | 33 15        |        |                                       |



| Tag | Phase         | U T C        | D (km) | B e m e r k u n g e n                  |
|-----|---------------|--------------|--------|----------------------------------------|
| 26  | VKA (e)       | 12 00(56)    |        | schwach Nahbeben                       |
| 26  | VKA eiPn      | 15 34 37.1 D |        | CSEM: Friaul                           |
|     | iPg           | 34 46        |        |                                        |
|     | i             | 35 13        |        |                                        |
|     | i             | 35 17        |        |                                        |
|     | iSg           | 35 22        |        |                                        |
|     | Im            | 35.5         |        |                                        |
|     | VIE (ImV)     | 15 35.7      |        |                                        |
| 26  | VKA eiSg      | 21 14 42.4   |        | TRIESTE: Friaul                        |
| 27  | VKA eiPKIKP   | 14 18 39.7 D |        | USGS: bei Neubritannien                |
| 28  | VIE ImV       | 01 30        |        | MLV= 4.6 CSEM: Nordatlantik-Rücken     |
| 28  | VKA ei(Pn)    | 03 06 25.0   |        | COLIM: Bergschlag Oberschlesien, Polen |
|     | eiSn          | 07 01        |        |                                        |
|     | iSg           | 07 17        |        |                                        |
| 28  | VKA e         | 14 37 57.4   |        | schwach MOXA: e 14 39 30.5             |
|     | ei            | 38 13        |        |                                        |
| 28  | VKA ei(PKIKP) | 18 20 27.8   |        | MLV= 5.8 USGS: Neue Hebriden           |
|     | VIE ImV       | 19 22        |        |                                        |
| 30  | VKA ei(Pn)    | 21 18 37.1 D |        | CSEM: Kroatien, Jugoslawien            |
|     | i             | 18 50        |        |                                        |
|     | i             | 19 16        |        |                                        |
|     | iSn           | 19 24        |        |                                        |
|     | iSb           | 19 36        |        |                                        |
|     | i(Sg)         | 19 51        |        |                                        |
|     | ImV           | 20.0         |        |                                        |
| 31  | VKA iPb       | 07 12 16.5   |        | LJUBLJANA: Nachbeben Kroatien          |
|     | i(Sg)         | 13 23        |        |                                        |
| 31  | VKA eiP       | 14 33 43.7 C | 4350   | MPV= 6.0 MPPV= 6.2 MLV= 6.1            |
|     | i             | 35 12        |        | USGS: 14 26 14.8 40.0°N, 70.9°E        |
|     | VIE eiP       | 14 33 43.5 U |        | Tadschikistan, USSR                    |
|     | eiPP          | 35 17        |        |                                        |
|     | i             | 40 23        |        |                                        |
|     | ImV           | 54           |        |                                        |
| 31  | VKA eSg       | 15 46 23.8   |        | TRIESTE: Friaul                        |
| 31  | VKA (e)PKIKP  | 20 56(55)    |        | MLV= 5.7 USGS: Tonga-Inseln            |
|     | eiPKP2        | 57 01        |        |                                        |
|     | VIE ei(PKP2)  | 20 57 04     |        |                                        |
|     | ImV           | 21 56        |        |                                        |

W i e n , 14. April 1978

J. Drimmel  
E. Fiegweil

- F e b r u a r 1 9 7 7 -

| Tag | Phase       | U T C        | D (km) | B e m e r k u n g e n                                   |
|-----|-------------|--------------|--------|---------------------------------------------------------|
| 01  | VIE ImV     | 21 44        |        | MLV= 5.4 USGS: Bismarck-See                             |
| 02  | VKA eiPg    | 23 04 05.3   | 360    | COLIM: West-Polen                                       |
|     | eiSn        | 04 31        |        |                                                         |
|     | eiSb        | 04 39        |        |                                                         |
|     | iSg         | 04 48        |        |                                                         |
| 02  | VKA ei(PKP) | 23 08 13.4   |        | USGS: Raum Fidschi-Inseln h= 646 km                     |
| 03  | VKA (e)PKP  | 20 31(55)    |        | USGS: bei den Loyalty-Inseln                            |
|     | ei          | 32 03        |        |                                                         |
| 04  | VKA eiP     | 07 59 28.7 C | 11300  | USGS: 07 46 33.8 24.7°S, 63.4°W                         |
|     | iPP         | 08 03 46     |        | Provinz Salta, Argentinien h= 549 km                    |
|     | eiSKS       | 09 12        |        |                                                         |
|     | VIE eP      | 07 59 30     |        |                                                         |
|     | iPP         | 08 03 46     |        |                                                         |
|     | e(SKS)      | 09 17        |        |                                                         |
| 04  | VKA ePg     | 20 58 05     |        | CSEM: Friaul                                            |
|     | eSg         | 58 44        |        |                                                         |
| 05  | VKA ePKHKP  | 03 48 29     |        | MLV= 5.8 USGS: Süd-Pazifik                              |
|     | ePKIKP      | 48 38        |        |                                                         |
|     | e           | 51 34        |        |                                                         |
|     | e           | 55 17        |        |                                                         |
|     | VIE ePKIKP  | 03 48 36     |        |                                                         |
|     | ePP         | 51 22        |        |                                                         |
|     | ImV         | 04 46        |        |                                                         |
| 05  | VKA eP      | 15 54 15     |        | USGS: Raum Dominikanische Republik                      |
| 06  | VKA eP      | 00 40 59     |        | USGS: Nord-Atlantik                                     |
| 06  | VKA eiPKIKP | 03 29 01.1 D | 16900  | USGS: Tonga-Inseln                                      |
|     | eiPKHKP     | 29 06        |        |                                                         |
|     | iPKP2       | 29 18        |        |                                                         |
|     | VIE ePKHKP  | 03 29 07     |        |                                                         |
| 06  | VKA e(Pg)   | 21 45 28     |        | schwach                                                 |
|     | VIE e(Pg)   | 21 45 28     |        |                                                         |
| 06  | VKA eiPg    | 21 45 29.1   | 50     | CSEM: 21 45 19.5 47.8°N, 16.5°E                         |
|     | iSg         | 45 34.6      |        | bei Breitenweg, Niederösterreich                        |
|     | VIE e       | 21 45 32     |        | WIEN: I <sub>0</sub> = 5.5° MSK, R <sub>3</sub> = 17 km |
|     | i           | 45 37        |        |                                                         |
| 07  | VKA eSKS    | 22 34 41     |        | USGS: bei der Küste von Mittel-Chile                    |
| 07  | VKA eiPKP   | 23 48 01.5 C |        | USGS: Tonga-Inseln h= 132 km                            |
|     | eipPKP      | 48 31        |        |                                                         |



| Tag | Phase                                                             | U T C                                                                                   | D (km) | B e m e r k u n g e n                          |
|-----|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------|------------------------------------------------|
| 10  | VKA eiPKP<br>ei<br>VIE ePKP                                       | 03 46 36.1 C<br>46 55<br>03 46 37                                                       |        | USGS: bei den Loyalty-Inseln                   |
| 10  | VKA eiPKP<br>ei<br>VIE i(PKP)                                     | 08 15 33.9 C<br>15 55<br>08 15 36                                                       |        | USGS: bei den Loyalty-Inseln                   |
| 10  | VKA i(Pn)<br>eiSn                                                 | 10 13 10.0<br>13 33                                                                     |        | CSEM: West-Ungarn                              |
| 10  | VKA eiPn<br>(i)Pg<br>i<br>iSn<br>iSg<br>ImV<br>VIE e<br>ei<br>ImV | 10 14 49.4 D<br>14(55)<br>15 01<br>15 15<br>15 20<br>15.5<br>10 15 11<br>15 24<br>15.55 | 220    | CSEM: 10 14 18.6 46.4°N, 17.3°E<br>West-Ungarn |
| 10  | VKA iPKP2                                                         | 23 25 39.4 C                                                                            |        | USGS: Kermadec-Inseln                          |
| 10  | VIE ImV                                                           | 23 47                                                                                   |        | MLV= 5.8 USGS: Raum Südsandwich-In.            |
| 11  | VKA eiPg<br>iSg<br>ImV                                            | 07 40 44.9 D<br>41 29<br>41.7                                                           |        | COLIM: West-Polen                              |
| 11  | VKA ei<br>ei<br>(Im)                                              | 11 23 15.7<br>23 28<br>23.55                                                            |        | Nahbeben MOLIN: (Pg) 11 23 20.5                |
| 11  | VIE ImV                                                           | 12 32                                                                                   |        | USGS: Kermadec-Inseln                          |
| 11  | VKA i<br>i(Sn)<br>ei<br>eiSg<br>Im                                | 18 35 38.0<br>35 58<br>36 16<br>36 26<br>36.5                                           |        | CSEM: Schwäbische Alb, BRD                     |
| 11  | VKA eiP                                                           | 22 07 41.7                                                                              |        | CSEM: Nordatlantik-Rücken                      |
| 12  | VKA ei(PKP2)                                                      | 04 26 43.8                                                                              |        | USGS: bei den Loyalty-Inseln                   |
| 12  | VKA eiP<br>e<br>eiPPP                                             | 04 56 52.7 D<br>58 41<br>59 01                                                          |        | USGS: Grenze Afghanistan-USSR<br>h= 98 km      |
| 13  | VKA eiPKIKP                                                       | 01 48 31.5 D                                                                            |        | USGS: bei den Loyalty-Inseln                   |
| 13  | VKA e(PKIKP)<br>ei                                                | 01 58 56.5<br>59 10                                                                     |        | USGS: bei den Loyalty-Inseln                   |
| 13  | VKA eP                                                            | 04 19 25                                                                                |        | USGS: Luzon, Philippinen                       |

| Tag | Phase                                                  | U T C                                                                   | D (km) | B e m e r k u n g e n                                                                                            |
|-----|--------------------------------------------------------|-------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------|
| 13  | VKA ei(P)<br>VIE eP<br>ImV                             | 04 19 57.5<br>04 19 56<br>05 02                                         |        | MLV= 5.5 USGS: Luzon, Philippinen                                                                                |
| 13  | VKA ePKP2                                              | 06 49 08                                                                |        | USGS: bei den Loyalty-Inseln                                                                                     |
| 13  | VKA ePKIKP                                             | 11 56 41                                                                |        | USGS: bei den Loyalty-Inseln                                                                                     |
| 13  | VKA eiP<br>ei(P)<br>VIE ImV                            | 13 20 46.0 C<br>25 04<br>14 09                                          |        | MLV= 5.2 USGS: Molukken-See                                                                                      |
| 13  | VKA ePKIKP<br>iPKP2                                    | 14 21 47.5<br>21 53                                                     |        | USGS: bei den Loyalty-Inseln                                                                                     |
| 14  | VKA e                                                  | 00 31 17                                                                |        | schwach USGS: Pakistan                                                                                           |
| 14  | VKA ei                                                 | 10 49 38.5                                                              |        | schwach                                                                                                          |
| 15  | VKA ePg<br>eiSb<br>eiSg<br>ImV<br>VIE e(Sg)<br>(ImV)   | 10 45 40.5 C<br>46 05<br>46 12<br>46.4<br>10 46 15.5<br>46.3            | 260    | WIEN: 10 44 54 46.6°N, 13.9°E<br>östlich von Villach, Kärnten<br>I <sub>0</sub> = 5° MSK, F~3100 km <sup>2</sup> |
| 15  | VKA ei                                                 | 15 28 41.2                                                              |        | schwach                                                                                                          |
| 16  | VKA iP<br>VIE eiP<br>ImV                               | 00 57 03.8 C<br>00 57 04 U<br>01 12                                     |        | MPV= 5.2 MLV= 4.8<br>CSEM: südwestlich der Kanarischen Inseln                                                    |
| 16  | VKA eiP<br>ei<br>eiPP<br>VIE ei(PP)<br>ei<br>ImV       | 10 54 16.3<br>57 39<br>58 32<br>10 58 35<br>59 30<br>11 43              |        | MLV= 5.7 USGS: Molukkenstraße                                                                                    |
| 16  | VKA ei(Sg)                                             | 11 42 35.4                                                              |        | schwach                                                                                                          |
| 16  | VKA eiPn<br>iPg<br>iSg<br>ImV<br>VIE iPg<br>eiSg<br>Im | 19 34 49.8 D<br>34 56 D<br>35 28<br>35.6<br>19 34 56 R<br>35 27<br>35.7 | 250    | MLV= 3.9<br>CSEM: 19 34 12.8 46.0°N, 16.2°E<br>Kroatien, Jugoslawien                                             |
| 18  | VKA eiP<br>eiPP<br>VIE eP<br>ImV                       | 04 20 19.0 D<br>23 19<br>04 20 20 R<br>58                               |        | MLV= 5.7 USGS: bei Hokkaido, Japan                                                                               |
| 18  | VKA eiPKP2                                             | 06 51 27.0                                                              |        | USGS: Raum Fidschi-Inseln h= 122 km                                                                              |



| Tag | Phase                                                              | U T C                                                                                     | D (km) | B e m e r k u n g e n                                                              |
|-----|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|
| 18  | VKA e(P)<br>VIE LmV                                                | 14 25 02<br>14 48                                                                         |        | USGS: Zentraler Mittelatlantik-Rücken                                              |
| 18  | VKA eiP<br>eiPP<br>ei(S)<br>VIE eiP<br>eiPP<br>e(SKS)<br>LmV       | 21 04 03.1 D<br>07 21<br>14 30<br>21 04 03.5 R<br>07 20<br>14 24<br>46                    | 9400   | MPV= 6.6 MLV= 6.0<br>USGS: 20 51 29.8 33.1°N, 140.8°E<br>südlich von Honshu, Japan |
| 19  | VKA eiP                                                            | 04 14 56.8 D                                                                              |        | USGS: südlich von Honshu, Japan                                                    |
| 19  | VKA ei(P)                                                          | 06 24 18.9                                                                                |        | USGS: Grenze Tibet-Indien                                                          |
| 19  | VIE LmV                                                            | 09 06                                                                                     |        | MLV= 5.6 USGS: Zentralind. Rücken                                                  |
| 19  | VKA iP<br>iPP<br>LmV<br>VIE eiP<br>eiPP<br>i<br>ei<br>eiPPS<br>LmV | 22 45 51.1 G<br>48 41<br>23 27<br>22 45 50 U<br>48 42<br>50 42<br>55 38<br>56 19<br>23 27 | 8400   | MPV= 7.0 MPPV= MLV= 6.7<br>USGS: 22 34 04.1 53.6°N, 170.0°E<br>Aleuten             |
| 19  | VKA eiPKP2                                                         | 23 49 45.2                                                                                |        | USGS: beim Tuamotu-Archipel                                                        |
| 19  | VKA eiP                                                            | 23 52 18.7 C                                                                              |        | schwach USGS: Tibet                                                                |
| 20  | VKA eiPn<br>eiSg                                                   | 11 21 03.3 D<br>22 25                                                                     |        | SARAJEVO: bei Dmriš, Jugoslawien                                                   |
| 21  | VKA ei(P)                                                          | 13 07 05.6                                                                                |        | CSEM: nordöstliche Türkei                                                          |
| 22  | VKA ei<br>i<br>VIE ei                                              | 14 20 08.9<br>20 15<br>14 20 10                                                           |        | schwach                                                                            |
| 22  | VIE LmV                                                            | 15 24                                                                                     |        | MLV= 5.6 USGS: Raum chilen. Küste                                                  |
| 22  | VKA eiP<br>VIE eiP<br>LmV                                          | 19 56 49.2 G<br>19 56 49.5 U<br>20 17                                                     |        | MPV= 5.5 MLV= 4.7<br>CSEM: Nordatlantik-Rücken                                     |
| 23  | VKA ePKP<br>ei(pPKP)<br>i<br>VIE ei(pPKP)                          | 00 26 57<br>27 11<br>27 20<br>00 27 09                                                    |        | USGS: Tonga-Inseln                                                                 |
| 23  | VKA eiPKHKP                                                        | 00 41 31.9                                                                                |        | USGS: Raum Fidschi-Inseln h= 643 km                                                |
| 23  | VKA ePP<br>VIE LmV                                                 | 20 24 17<br>20 30                                                                         |        | CSEM: Peloponnes, Griechenland                                                     |
| 24  | VKA ePKP2                                                          | 04 57 12                                                                                  |        | USGS: Tonga-Inseln h= 186 km                                                       |

| Tag | Phase                                                | U T C                                                               | D (km) | B e m e r k u n g e n                        |
|-----|------------------------------------------------------|---------------------------------------------------------------------|--------|----------------------------------------------|
| 24  | VKA ei(P)<br>VIE ePP<br>LmV                          | 09 02 03.3<br>09 04 22<br>30                                        |        | MLV= 5.6 USGS: bei Ascensión                 |
| 24  | VKA eiP<br>VIE LmV                                   | 11 51 51.8 D<br>12 31                                               |        | USGS: bei Hokkaido, Japan h= 75 km           |
| 24  | VKA eiPKP2                                           | 16 29 47.9 C                                                        |        | USGS: Raum Fidschi-Inseln h= 543 km          |
| 24  | VKA eiP<br>i<br>iSgSgSg<br>Lm<br>VIE ei<br>ei<br>LmV | 20 50 18.7 D<br>52 04<br>54 21<br>56.6<br>20 50 24<br>52 31<br>56.7 |        | MLV= 4.5 CSEM: westliche Türkei              |
| 25  | VKA eiPKIKP                                          | 01 18 25.7 D                                                        |        | USGS: Raum östl. Papua-Neuguinea             |
| 25  | VKA eiPKIKP<br>VIE LmV                               | 01 37 42.3 D<br>02 32                                               |        | MLV= 5.8<br>USGS: Raum östl. Papua-Neuguinea |
| 25  | VKA eiP                                              | 04 43 15.6 D                                                        |        | CSEM: West-Iran h= 80 km                     |
| 25  | VKA eiP                                              | 05 23 48.5 C                                                        |        | schwach                                      |
| 26  | VKA ei(PKP2)<br>VIE LmV                              | 14 27 25.6<br>15 29                                                 |        | USGS: Raum Fidschi-Inseln                    |
| 26  | VKA iP                                               | 22 50 41.0 D                                                        |        | CSEM: westlich der Kanarischen Inseln        |
| 27  | VKA eiP<br>eiPP                                      | 09 29 35.0 D<br>31 11                                               |        | USGS: Tadschikistan, USSR h= 112 km          |
| 28  | VKA e<br>VIE LmV                                     | 01 45 35<br>02 20                                                   |        | MLV= 5.2 USGS: südlich von Panama            |
| 28  | VKA iP<br>i<br>VIE e                                 | 08 52 18.1 D<br>52 24<br>08 52 24                                   |        | USGS: Arabisches Meer                        |
| 28  | VKA eiP<br>i<br>ei(PP)<br>VIE e(P)                   | 17 43 29.1 D<br>43 32<br>45 26<br>17 43 32                          |        | USGS: Arabisches Meer                        |
| 28  | VKA eP                                               | 18 02 53                                                            |        | schwach USGS: Kurilen                        |

Wien, 14. April 1978

J. Drimmel  
E. Fiegweil



VKA, VIE

Seismische Aufzeichnungen in Wien

Seite 13

1977 - 03

- M ä r z 1 9 7 7 -

| Tag | Phase      | U T C        | D (km) | B e m e r k u n g e n                                                                                                |
|-----|------------|--------------|--------|----------------------------------------------------------------------------------------------------------------------|
| 02  | VKA eiPKP  | 05 24 58.8 D |        | USGS: Fidschi-Inseln                                                                                                 |
| 02  | VKA eiP    | 10 06 47.6 C | 10700  | MLV= 6.2                                                                                                             |
|     | ipP        | 07 04        |        | USGS: 09 53 23.2 6.8°N, 123.7°E                                                                                      |
|     | eipPP      | 10 56        |        | Mindanao, Philippinen                                                                                                |
|     | VIE iP     | 10 06 49 U   |        |                                                                                                                      |
|     | i(P)       | 10 46        |        |                                                                                                                      |
|     | ImV        | 54           |        |                                                                                                                      |
| 02  | VKA eSg    | 17 31 35     | 205    | WIEN: 17 30 35 47.0°N, 14.3°E<br>nördlich von Friesach, Kärnten<br>I <sub>0</sub> =4.5° MSK, F= 1250 km <sup>2</sup> |
| 04  | VKA iP     | 19 23 43.0 C | 840    | CSEM: 19 21 56.2 45.8°N, 26.8°E                                                                                      |
|     | ei         | 23 47        |        | Gebiet von Vrancea, Rumänien h= 93 km                                                                                |
|     | i          | 23 51        |        | I <sub>max</sub> in Österreich= 2° MSK                                                                               |
|     | iPP        | 23 55        |        |                                                                                                                      |
|     | VIE iP     | 19 23 44 U   |        |                                                                                                                      |
|     | i          | 23 45 R      |        |                                                                                                                      |
| 04  | VKA i      | 20 01 42.7   |        | PRÜHONICE: P 20 01 32.0                                                                                              |
| 04  | VKA ei     | 20 05 35.6   |        |                                                                                                                      |
| 05  | VKA eiP    | 00 02 39.0 C |        | CSEM: Gebiet von Vrancea, Rumänien                                                                                   |
|     | i          | 02 47        |        | USGS: h= 104 km                                                                                                      |
|     | i          | 03 13        |        |                                                                                                                      |
| 07  | VKA eiP    | 00 39 46.7 D |        | MLV= 5.7 USGS: Nordost-China                                                                                         |
|     | VIE ei(P)  | 00 39 50     |        |                                                                                                                      |
|     | ImV        | 01 11        |        |                                                                                                                      |
| 07  | VKA e(Pn)  | 08 19 44     |        | MLV= 3.7 CSEM: Hessen, BRD                                                                                           |
|     | iSgSg      | 21 27        |        |                                                                                                                      |
|     | VIE eiSg   | 08 21 24     |        |                                                                                                                      |
|     | ImV        | 21.5         |        |                                                                                                                      |
| 07  | VKA eiP    | 09 24 30.3 C |        | MLV= 5.2 USGS: bei Hokkaido, Japan                                                                                   |
|     | VIE ImV    | 10 00        |        |                                                                                                                      |
| 07  | VKA eiP    | 10 49 25.4 C |        | USGS: Zentraler Mittelatlantik-Rücken                                                                                |
| 07  | VKA e(Pg1) | 18 31 22.5   | 70     | BRATISLAVA: Kleine Karpaten, ČSSR                                                                                    |
|     | ei         | 31 28        |        |                                                                                                                      |
|     | i(Sg1)     | 31 32        |        |                                                                                                                      |
|     | i          | 31 48        |        |                                                                                                                      |
|     | i          | 31 54        |        |                                                                                                                      |
|     | ImV        | 31 57        |        |                                                                                                                      |
|     | VIE e      | 18 31 28     |        |                                                                                                                      |



| Tag | Phase      | U T C         | D (km) | B e m e r k u n g e n               |
|-----|------------|---------------|--------|-------------------------------------|
| 08  | VKA e(PKP) | 03 21 12      |        | USGS: Raum Fidschi-Inseln h= 571 km |
| 08  | VIE ImV    | 09 22         |        | MLV= 5.8 USGS: Salomon-Inseln       |
| 08  | VKA eiP    | 13 22 34.3 D  |        | MLV= 5.6 USGS: Peru                 |
|     | VIE ImV    | 14 04         |        |                                     |
| 08  | VKA iPn    | 19 19 41.4 C' | 670    | MLV= 3.9                            |
|     | ei(Pb)     | 19 57         |        | CSEM: 19 18 12.7 43.2°N, 21.0°E     |
|     | i          | 20 04         |        | bei Kruševac, Serbien, Jugoslawien  |
|     | iSn        | 20 49         |        |                                     |
|     | iSb        | 21 10         |        |                                     |
|     | i          | 21 42         |        |                                     |
|     | VIE e      | 19 20 28      |        |                                     |
|     | ei         | 21 08         |        |                                     |
|     | ei         | 21 24         |        |                                     |
|     | ImV        | 21.9          |        |                                     |
| 08  | VKA eiP    | 22 59 47.5 D  |        | schwach USGS: Peru                  |
| 08  | VKA eP     | 23 30 04      |        | MLV= 5.7 USGS: Nord-Sumatra         |
|     | i          | 30 21         |        |                                     |
|     | i          | 30 36         |        |                                     |
|     | e(PP)      | 33 20         |        |                                     |
|     | VIE e(P)   | 23 30 06      |        |                                     |
|     | i          | 30 16         |        |                                     |
|     | eiS        | 40 27         |        |                                     |
|     | ImV        | 24 18         |        |                                     |
| 09  | VKA ePg    | 00 11 39      |        | TRIESTE: Friaul                     |
|     | ei         | 12 05         |        |                                     |
|     | eiSg       | 12 17         |        |                                     |
|     | Im         | 12.4          |        |                                     |
| 09  | VKA eiP    | 04 11 27.7 C  |        | schwach USGS: Kurilen               |
|     | ei         | 11 42         |        |                                     |
| 09  | VKA ei     | 04 27 22.8    |        | schwach USGS: Raum Kurilen          |
| 09  | VKA eiP(P) | 04 54 49.3 D  |        | COLIM: P 04 54 45.9                 |
| 09  | VKA eiP    | 14 38 33.7 D  | 8150   | MPV= 6.5 MPPV= 6.9                  |
|     | ipP        | 40 32         |        | USGS: 14 27 53.6 41.6°N, 130.9°E    |
|     | iPP        | 41 30         |        | Nord-Korea h= 528 km                |
|     | iPPP       | 43 24         |        |                                     |
|     | iS         | 47 19         |        |                                     |
|     | VIE iP     | 14 38 35 R    |        |                                     |
|     | ipP        | 40 32         |        |                                     |
|     | iPP        | 41 29         |        |                                     |
|     | eiS        | 47 19         |        |                                     |
| 11  | VKA eiP    | 07 10 37.5 C  |        | USGS: bei den Philippinen           |
| 12  | VKA eiP    | 03 07 11.4 C  | 6000   | MPV= 5.6 MLV= 5.8                   |
|     | eiS        | 14 37         |        | USGS: 02 57 50.6 23.7°N, 45.2°W     |
|     | VIE eiP    | 03 07 10 U    |        | Nordatlantik-Rücken                 |
|     | ImV        | 31            |        |                                     |

| Tag | Phase         | U T C        | D (km) | B e m e r k u n g e n                |
|-----|---------------|--------------|--------|--------------------------------------|
| 13  | VKA eiPKP     | 17 53 31.0 C |        | USGS: Raum Samoa-Inseln              |
| 13  | VKA ei(P)     | 21 27 44.2   |        | USGS: Peru-Brasilien h= 161 km       |
| 14  | VKA eiPKIKP   | 19 21 48.2 D | 16650  | USGS: Raum Fidschi-Inseln h= 577 km  |
|     | eiPKHKP       | 21 52        |        |                                      |
|     | iPKP2         | 22 04        |        |                                      |
|     | eiPKHKP       | 24 11        |        |                                      |
|     | ipPKP2        | 24 16        |        |                                      |
|     | VIE ei(PKHKP) | 19 21 55     |        |                                      |
| 14  | VKA eiPKP2    | 21 12 31.5 C |        | USGS: Raum Kermadec-Inseln h= 368 km |
| 15  | VKA ei(PgPg)  | 02 02 16.2   |        | CSEM: Montenegro, Jugoslawien        |
|     | eiSn          | 02 52        |        |                                      |
|     | Im            | 03.9         |        |                                      |
| 15  | VKA ePKIKP    | 04 31 25     |        | schwach USGS: Tonga-Inseln           |
|     | ei(pPKP)      | 31 41        |        |                                      |
| 15  | VKA eiPP      | 09 14 06.1   |        | schwach USGS: Banda-See              |
|     | VIE ePP       | 09 14 07     |        |                                      |
|     | ImV           | 10 06        |        |                                      |
| 15  | VKA eiPg      | 15 48 28.3 D |        | TRI: Friaul                          |
|     | iSg           | 49 05        |        |                                      |
|     | ImV           | 49.2         |        |                                      |
| 15  | VKA ePKIKP    | 20 14 41     |        | MLV= 5.6 USGS: Salomon-Inseln        |
|     | VIE ei(PKIKP) | 20 14 45     |        |                                      |
|     | ImV           | 21 08        |        |                                      |
| 16  | VKA e(Sg)     | 01 01 17.3   |        | WIEN: Friaul                         |
| 17  | VKA eiP       | 00 05 53.3 D |        | USGS: Yünnan, China                  |
|     | eiSP          | 06 09        |        |                                      |
| 17  | VKA ei        | 16 48 12.4   |        | PRÜHONICE: P 16 47 05.0              |
|     | ei            | 48 21.3      |        |                                      |
| 17  | VKA iPn       | 17 55 17.1   | 235    | BUDAPEST: bei Tamási, West-Ungarn    |
|     | i(Pg)         | 55 27        |        |                                      |
|     | iSg           | 55 53        |        |                                      |
| 17  | VKA ei(Pg)    | 18 02 02.8   |        | BUDAPEST: West-Ungarn                |
|     | iSg           | 02 31        |        |                                      |
| 18  | VKA eiP       | 21 56 39.0 D | 9750   | MPV=MLV= 7.3                         |
|     | i             | 56 49        |        | USGS: 21 43 52.4 16.8°N, 122.3°E     |
|     | ei(pPP)       | 22 00 26     |        | Luzon, Philippinen                   |
|     | eS            | 07 16        |        |                                      |
|     | i(sS)         | 07 40        |        |                                      |
|     | ei(PKKP)      | 14 27        |        |                                      |
|     | e(PKPPKP)     | 22 37        |        |                                      |
|     | VIE ei(P)     | 21 56 41     |        |                                      |
|     | eS            | 22 07 14     |        |                                      |
|     | isS           | 07 36        |        |                                      |
|     | ImV           | 42           |        |                                      |



| Tag | Phase                                        | U T C                                                          | D (km) | B e m e r k u n g e n                                                                        |
|-----|----------------------------------------------|----------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------|
| 19  | VKA iP                                       | 00 10 27.4 C                                                   |        | USGS: Luzon, Philippinen                                                                     |
| 19  | VKA eP                                       | 00 53 55                                                       |        | USGS: Luzon, Philippinen                                                                     |
| 19  | VKA eiP                                      | 02 06 04.2                                                     |        | USGS: Luzon, Philippinen                                                                     |
| 19  | VKA eiP                                      | 03 15 30.4 C                                                   |        | USGS: Luzon, Philippinen                                                                     |
| 19  | VKA i                                        | 06 57 47.5                                                     |        | schwach                                                                                      |
| 19  | VKA iPKIKP                                   | 09 42 09.6 D                                                   |        | USGS: Tonga-Inseln h= 176 km                                                                 |
| 19  | VKA iP<br>iPp<br>i<br>VIE iP<br>ei<br>ImV    | 11 08 21.7 C<br>09 40<br>10 10<br>11 08 22 U<br>09 44<br>43    | 8700   | MPV= 6.4<br>USGS: 10 56 25.1 44.2°N, 148.2°E<br>Kurilen h= 70 km                             |
| 19  | VKA eiP                                      | 12 29 53.2 D                                                   |        | USGS: Luzon, Philippinen                                                                     |
| 19  | VKA eP<br>eiP2<br>VIE eiP2<br>ImV            | 13 08 49<br>08 53 D<br>13 08 52 R<br>51                        |        | MPV= 6.0 MLV= 5.4<br>USGS: Luzon, Philippinen                                                |
| 19  | VKA eiP<br>ei<br>VIE eP<br>eiPP<br>ImV       | 19 47 55.6 C<br>51 47<br>19 47 56<br>51 25<br>20 34            |        | MPV= 6.2 MLV= 5.9<br>USGS: Luzon, Philippinen                                                |
| 19  | VKA eiPKIKP<br>iPKHKP<br>VIE eiPKHKP         | 23 20 43.4 D<br>20 45<br>23 20 45                              |        | USGS: beim Tuamotu-Archipel                                                                  |
| 20  | VKA ePb<br>ei(Pg)                            | 07 43 03.9<br>43 19                                            |        | TITOGRAD: Montenegro, Jugoslawien                                                            |
| 20  | VKA eiPg<br>iSg<br>ImV                       | 16 02 34.4 D<br>02 43.5<br>02 49                               | 65     | WIEN: Raum Wiener Becken<br>keine Wahrnehmungsberichte                                       |
| 21  | VKA ei(Pn)<br>ei(Pg)<br>ei(Sg)               | 01 27 06.5<br>27 15<br>27 54                                   |        | TRI: Friaul                                                                                  |
| 21  | VKA e                                        | 19 38 52                                                       |        | CERKNICA: Pn 19 36 34.2                                                                      |
| 21  | VKA iP<br>(i)<br>VIE iP<br>iPP<br>eiS<br>ImV | 21 26 04.4 C<br>32(01)<br>21 26 04.5 U<br>27 34<br>31 48<br>42 | 4100   | MPV= 6.9 MPPV= 6.8 MLV= 6.6<br>CSEM: 21 18 59.8 27.7°N, 56.4°E<br>bei Bender Abbas, Süd-Iran |
| 21  | VKA iP                                       | 21 40 28.8 D                                                   |        | CSEM: Süd-Iran                                                                               |

| Tag | Phase                                          | U T C                                                             | D (km) | B e m e r k u n g e n                                                                   |
|-----|------------------------------------------------|-------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
| 21  | VKA ei                                         | 21 58 47.2                                                        |        | USGS: Süd-Iran                                                                          |
| 21  | VKA iP<br>iPP<br>eiS<br>VIE eiP<br>ImV         | 22 49 16.5 C<br>50 47<br>55 03<br>22 49 16 U<br>23 07             | 4100   | MPV= 6.1 MLV= 5.6<br>bei Bender Abbas, Süd-Iran                                         |
| 22  | VKA eiP                                        | 02 33 06.5 C                                                      |        | CSEM: Süd-Iran                                                                          |
| 22  | VKA eiPKIKP<br>eiPKP2<br>VIE eiPKIKP<br>eiPKP2 | 02 42 37.9 C<br>43 22 D<br>02 42 38 U<br>43 23 R                  |        | USGS: Raum Kermadec-Inseln h= 336 km                                                    |
| 22  | VKA eP<br>VIE e                                | 02 49 13<br>02 49 22                                              |        | CSEM: Süd-Iran                                                                          |
| 22  | VKA eiP                                        | 04 22 25.4 D                                                      |        | USGS: Südatlantik-Rücken                                                                |
| 22  | VKA iP<br>VIE iPeP<br>ImV                      | 09 21 50.5 C<br>09 24 06<br>41                                    |        | CSEM: Süd-Iran                                                                          |
| 22  | VKA eiP<br>iS<br>VIE eiP<br>i(Pp)<br>eS<br>ImV | 12 04 40.4 C<br>10 26<br>12 04 41 U<br>06 15<br>10 25<br>23       | 4150   | MPV= 6.2 MPPV=MLV= 5.8<br>CSEM: 11 57 35.2 27.6°N, 56.5°E<br>bei Bender Abbas, Süd-Iran |
| 22  | VKA ei                                         | 12 14 35.7                                                        |        | KAŠPERSKÉ HORY: P 12 14 39.8                                                            |
| 22  | VKA eiP                                        | 12 40 05.4 D                                                      |        | CSEM: Süd-Iran h= 99 km                                                                 |
| 22  | VKA eiP                                        | 21 38 10.5 D                                                      |        | CSEM: Süd-Iran                                                                          |
| 23  | VKA eiP                                        | 00 25 00.1 D                                                      |        | CSEM: Süd-Iran                                                                          |
| 23  | VKA eiP<br>eipP                                | 02 23 30.0 C<br>24 12                                             |        | USGS: Nord-Kolumbien h= 164 km                                                          |
| 23  | VKA eiP                                        | 03 58 03.0 D                                                      |        | schwach USGS: Kurilen                                                                   |
| 23  | VKA eiPKP<br>VIE ei(PKP)                       | 05 20 17.1 D<br>05 20 19.5                                        |        | USGS: Raum Fidschi-Inseln                                                               |
| 23  | VKA ePKP<br>i<br>i<br>VIE e<br>i<br>ei<br>ImV  | 07 38 42<br>38 49<br>41 45<br>07 38 47<br>38 50<br>41 45<br>08 40 |        | MLV= 6.3 USGS: Raum Fidschi-Inseln                                                      |
| 23  | VKA eP                                         | 07 54 06                                                          |        | CSEM: Süd-Iran                                                                          |



## Seismische Aufzeichnungen in Wien

VKA, VIE

| Tag | Phase                                   | U T C                                     | D (km) | B e m e r k u n g e n                                           |
|-----|-----------------------------------------|-------------------------------------------|--------|-----------------------------------------------------------------|
| 23  | VKA eiPKP<br>i                          | 17 29 57.6 D<br>30 04                     |        | MLV= 6.1 USGS: Raum Fidschi-Inseln                              |
|     | VIE eiPKP<br>LmV                        | 17 29 57.5 R<br>18 36                     |        |                                                                 |
| 23  | VKA eiPKP<br>VIE e(PKP2)                | 19 17 13.1 D<br>19 17 19                  |        | USGS: Tonga-Inseln                                              |
| 23  | VKA eiP                                 | 20 48 07.5 D                              |        | CSEM: Süd-Iran                                                  |
| 23  | VKA iP<br>ei(S)                         | 23 58 25.8 C<br>24 04 17                  | 4150   | MPV= 5.9 MPPV= 5.8 MLV= 5.1<br>CSEM: bei Bender Abbas, Süd-Iran |
|     | VIE iP<br>(eiPP)<br>ei(S)<br>LmV        | 23 58 26 U<br>24 00(00)<br>04 18<br>17    |        |                                                                 |
| 24  | VKA (ei)P<br>i                          | 00 21(01)<br>21 23                        |        | CSEM: Süd-Iran                                                  |
| 24  | VKA eiP<br>VIE LmV                      | 04 49 34.0 C<br>05 08                     |        | CSEM: Süd-Iran                                                  |
| 24  | VKA ePn<br>iPg<br>iSg                   | 07 33 16.5 D<br>33 27 D<br>34 11          | 360    | MLV= 4.8 CSEM: 07 32 26.7<br>51.5° N, 16.1° E Südwest-Polen     |
|     | VIE iPg<br>iSg<br>LmV                   | 07 33 28 R<br>34 12<br>34.5               |        |                                                                 |
| 25  | VKA eiP<br>eipP<br>ei                   | 02 44 28.5 C<br>44 43<br>47 54            |        | MLV= 4.8 CSEM: Türkei                                           |
|     | VIE e(P)<br>eiPP<br>ei<br>ei(sS)<br>LmV | 02 44 33<br>44 48<br>45 07<br>48 23<br>54 |        |                                                                 |
| 26  | VKA iP<br>i                             | 04 48 20.6 C<br>48 53                     |        | MPV= 6.4 MLV= 6.0<br>USGS: Aleuten                              |
|     | VIE iP<br>i<br>e(sS)<br>LmV             | 04 48 21 U<br>48 53<br>58 42<br>05 35     |        |                                                                 |
| 26  | VKA eiP                                 | 05 09 36.4 D                              |        | CSEM: Raum Van-See, Türkei                                      |
| 26  | VKA ei                                  | 05 52 21.2                                |        | CSEM: Griechenland                                              |
| 26  | VKA iP                                  | 06 27 20.0 D                              |        | schwach                                                         |
| 26  | VKA eiPKIKP<br>iPKHKP<br>iPKP2          | 08 38 53.6 C<br>38 59 C<br>39 04 C        | 16550  | USGS: Tonga-Inseln h= 93 km                                     |
|     | VIE ePKIKP<br>eiPKP2                    | 08 38 55<br>39 04                         |        |                                                                 |

VKA, VIE

## Seismische Aufzeichnungen in Wien

| Tag | Phase                       | U T C                          | D (km) | B e m e r k u n g e n                      |
|-----|-----------------------------|--------------------------------|--------|--------------------------------------------|
| 26  | VKA eiP<br>ei               | 22 36 27.7 C<br>38 49          |        | MLV= 5.6<br>USGS: nördlich von Ascensión   |
|     | VIE ei<br>esS<br>LmV        | 22 38 31<br>44 28<br>23 01     |        |                                            |
| 27  | VKA eiP                     | 05 45 32.3 C                   |        | USGS: Grenze Kaschmir-Tibet                |
| 27  | VKA eiP                     | 12 06 06.1 C                   |        | CSEM: Arabistan, Iran                      |
| 27  | VKA ei(P)                   | 23 36 12.3                     |        | schwach                                    |
| 28  | VKA eiPKIKP<br>epPP<br>iPKS | 01 34 56.7 D<br>38 18<br>38 33 | 15400  | MPPV= 6.0<br>USGS: Neue Hebriden h= 109 km |
|     | VIE eipPP<br>iPKS<br>LmV    | 01 38 19<br>38 34<br>02 34     |        |                                            |
| 28  | VKA e<br>ei(pP)             | 04 17 07<br>17 18              |        | CSEM: Süd-Iran                             |
| 28  | VKA (ei)PgPg                | 08 19(02)                      |        | schwach CSEM: Albanien                     |
| 28  | VKA eP<br>eiPP              | 10 53 41<br>53 51              |        | MLV= 4.6 CSEM: südwestliche Türkei         |
|     | VIE LmV                     | 11 00                          |        |                                            |
| 28  | VKA i                       | 11 32 23.7                     |        | schwach                                    |
| 29  | VKA eiP<br>eiPP             | 04 04 33.1<br>06 06            |        | USGS: Nukleartest, Ost-Kasakstan           |
| 29  | VKA eiPKP2                  | 18 02 13.8                     |        | USGS: Raum Fidschi-Inseln h= 543 km        |
| 29  | VKA eiP<br>VIE eiP          | 22 36 26.3 D<br>22 36 25 R     |        | MPV= 5.5 CSEM: Süd-Iran                    |
| 30  | VIE LmV                     | 12 17                          |        | MLV= 5.6 USGS: bei Honshu, Japan           |
| 30  | VKA eiPg<br>ei<br>LmV       | 17 44 42.0<br>45 27<br>45.5    |        | MLV= 3.1 CSEM: Friaul                      |
|     | VIE LmV                     | 17 45.5                        |        |                                            |
| 30  | VKA eiP                     | 17 53 32.8 C                   |        | schwach USGS: Aleuten                      |
| 31  | VKA eiPKP2                  | 05 28 16.9                     |        | schwach USGS: Kermadec-Inseln              |
| 31  | VKA eSg                     | 15 22 39                       |        | CSEM: Schwäbische Alb, BRD                 |
| 31  | VKA eiP                     | 19 18 29.0 D                   |        | CSEM: Süd-Iran                             |

W i e n , 14. April 1978

J. Drimmel  
E. Fieggweil



VKA, VIE

Seismische Aufzeichnungen in Wien

- April 1977 -

| Tag | Phase                                                                      | U T C                                                                            | D (km) | B e m e r k u n g e n                                                |
|-----|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------|----------------------------------------------------------------------|
| 01  | VKA ePg<br>eSb<br>eiSg                                                     | 06 30 47<br>31 15<br>31 21                                                       | 280    | WIEN: Nordböhmen, <sup>Y</sup> ČSSR                                  |
| 01  | VKA e                                                                      | 10 49 42                                                                         |        | schwach                                                              |
| 01  | VKA iP<br>iS<br>VIE eiP<br>eiPP<br>e(S)<br>LmV                             | 13 43 34.2 C<br>49 21<br>13 43 36 U<br>45 04<br>49 24<br>14 02                   | 4150   | MLV= 5.7 CSEM: 13 36 30.1<br>27.6°N, 56.4°E Süd-Iran                 |
| 01  | VKA (ei)Pg<br>e(Sn)<br>ei(Sg)                                              | 22 20(02)<br>20 32<br>20 46                                                      | 350    | WIEN: Schlesien, Polen                                               |
| 02  | VKA eiPKIKP<br>iPKHKP<br>e(SP)<br>VIE iPKIKP<br>iPP<br>i(SKKS)<br>i<br>LmV | 07 35 03.5 C<br>35 06<br>49 08<br>07 35 04 U<br>38 36<br>45 36<br>49 02<br>08 46 | 16400  | MLV= 7.6<br>USGS: 07 15 22.7 16.7°S, 172.1°W<br>bei den Samoa-Inseln |
| 02  | VKA eiPKP                                                                  | 08 05 50.1 D                                                                     |        | auch in LJUBLJANA u.a.                                               |
| 02  | VKA eP<br>ei                                                               | 16 09 59<br>10 23                                                                |        | schwach USGS: Nordatlantik                                           |
| 02  | VKA e(PKP)                                                                 | 20 14 15                                                                         |        | USGS: bei den Samoa-Inseln                                           |
| 02  | VKA eiP                                                                    | 20 51 38.5 D                                                                     |        | USGS: Chiapas, Mexiko h= 249 km                                      |
| 03  | VKA e(Pg)<br>eiSg                                                          | 00 25 13<br>25 52                                                                | 350    | TRIESTE: Tolmezzo, Friaul                                            |
| 03  | VKA (i)Pn<br>iPg<br>iSg<br>VIE e<br>i<br>i(Sb)<br>iSg                      | 03 19(02)<br>19 10<br>19 51<br>03 19 04<br>19 15<br>19 42<br>19 52               | 350    | CSEM: 03 18 15.9 46.25°N, 13.2°E<br>Friaul                           |
| 04  | VKA eiP<br>VIE iP<br>eisS<br>LmV                                           | 18 02 20.2<br>18 02 20 U<br>10 42<br>30                                          |        | MLV= 5.7<br>USGS: Zentraler Mittelatlantik-Rücken                    |



| Tag        | Phase      | U T C        | D (km) | B e m e r k u n g e n                 |
|------------|------------|--------------|--------|---------------------------------------|
| 05         | VKA eiP    | 15 12 35.8 C |        | USGS: Nukleartest Süd-Nevada, USA     |
| 06         | VKA ei(Sg) | 07 56 19.0   |        | TRIESTE: Friaul                       |
| 06         | VKA eiP    | 13 42 47.8 D |        | MLV= 5.6 CSEM: Südwest-Iran           |
|            | i          | 43 12        |        |                                       |
|            | ei         | 43 18        |        |                                       |
|            | eScP       | 49 32        |        |                                       |
| VIE i      |            | 13 42 54     |        |                                       |
| iPcS       |            | 49 36        |        |                                       |
| LmV        |            | 59           |        |                                       |
| 06         | VKA e(P)   | 19 35 34     |        | schwach CSEM: Nordsee                 |
|            | eS         | 38 26        |        |                                       |
| 08         | VKA e      | 17 21 45     |        | Nahbeben auch in COLLIM u.a.          |
|            | ei(Sg)     | 22 33        |        |                                       |
| 09         | VKA ei     | 03 09 13.9   |        | KASPERSKÉ HORY: P 03 08 11.0          |
| 09         | VKA eP     | 04 16 38     |        | USGS: Grenze Peru-Brasilien h= 564 km |
|            | ei         | 16 40        |        |                                       |
| VIE eiP    |            | 04 16 38 R   |        |                                       |
| 09         | VKA eP     | 04 54 26     |        | schwach USGS: bei Ascension           |
| 09         | VKA eiSn   | 11 00 15.8   |        | CSEM: Norditalien                     |
|            | eiSg       | 00 53        |        |                                       |
| VIE Spuren |            | 11 00.9      |        |                                       |
| 09         | VKA eiPKP  | 21 35 48.7 D |        | USGS: Neue Hebriden                   |
|            | (ei)pPKP   | 36(02)       |        |                                       |
| VIE ePKP   |            | 21 35 47     |        |                                       |
| LmV        |            | 22 37        |        |                                       |
| 10         | VKA eiPKP  | 01 13 50.7 D |        | USGS: Neue Hebriden                   |
| VIE LmV    |            | 02 18        |        |                                       |
| 10         | VKA eiP    | 08 43 25.1 D |        | USGS: Kurilen h= 84 km                |
| VIE eiP    |            | 08 43 26 U   |        |                                       |
| 10         | VKA e      | 15 59 06     |        | schwach Nahbeben                      |
|            | ei         | 59 25        |        |                                       |
| 10         | VKA e      | 16 54 49     |        | schwach Nahbeben                      |
|            | ei         | 55 05        |        |                                       |
|            | i          | 55 22        |        |                                       |
| 11         | VKA eiP    | 07 19 45.2 C |        | schwach                               |
| 11         | VKA ei(P)  | 16 22 09.2   |        | USGS: Raum Tanganyika-See             |
| 11         | VKA eiP    | 16 26 37.0   |        | CSEM: südwestliche Türkei             |
|            | i          | 26 56        |        |                                       |
| 11         | VKA eiP    | 22 32 27.6 C |        | MLV= 4.8 USGS: Nordatlantik           |
| VIE LmV    |            | 22 44        |        |                                       |

| Tag      | Phase       | U T C        | D (km) | B e m e r k u n g e n                  |
|----------|-------------|--------------|--------|----------------------------------------|
| 12       | VKA e(P)    | 01 35 34     |        | schwach                                |
| 12       | VKA ei(pP)  | 10 51 17.1   |        | schwach USGS: Kyushu, Japan            |
| VIE LmV  |             | 11 33        |        |                                        |
| 12       | VKA ei      | 15 47 54.4   |        | schwach                                |
| 13       | VKA eiP     | 11 41 18.7 C | 4550   | MPV= 5.2                               |
|          | i           | 41 21        |        | USGS: 11 33 51.8 36.5°N, 70.9°E        |
|          | i(P)        | 43 01        |        | Hindukusch-Gebiet h= 196 km            |
|          | eiScP       | 46 43        |        |                                        |
| VIE eiP  |             | 11 41 19 U   |        |                                        |
| ei(P)    |             | 43 02        |        |                                        |
| isPP     |             | 44 02        |        |                                        |
| LmV      |             | 52           |        |                                        |
| 13       | VKA eiP     | 12 59 28.3 D |        | schwach USGS: Talaud-Inseln            |
| 13       | VKA ei      | 14 04 21.6   | 605    | CSEM: Montenegro, Jugoslawien          |
|          | eiPgPg      | 04 39        |        |                                        |
|          | iSn         | 05 17        |        |                                        |
|          | eiSgSg      | 05 53        |        |                                        |
| VIE LmV  |             | 14 06.3      |        |                                        |
| 14       | VKA ePKIKP  | 04 24 09     | 16350  | USGS: Raum Fidschi-Inseln h= 535 km    |
|          | iPKHKP      | 24 13 C      |        |                                        |
|          | iPKP2       | 24 16 D      |        |                                        |
| VIE iPKP |             | 04 24 15 R   |        |                                        |
| 14       | VKA ei(P)   | 07 20 37.0   |        | schwach CSEM: Algerien                 |
| VIE LmV  |             | 07 27        |        |                                        |
| 14       | VKA eiP     | 14 45 30.8 C |        | USGS: Raum Tanganyika-See              |
| 15       | VKA ei(PKP) | 23 23 32.6   |        | USGS: Raum Tonga-Inseln                |
| 16       | VKA eiPKHKP | 06 49 58.2   |        | USGS: Raum Fidschi-Inseln h= 600 km    |
| 17       | VKA eiPKHKP | 02 54 35.1   |        | schwach USGS: Tonga-Inseln             |
| 17       | VKA e       | 03 03 08     |        | TRIESTE: Friaul                        |
|          | eSg         | 03 34        |        |                                        |
| 18       | VKA iP      | 00 20 29.6 C | 4550   | MPV= 5.1                               |
|          | iPP         | 22 11        |        | USGS: 00 13 04.6 36.5°N, 70.8°E        |
|          | i(PcP)      | 22 29        |        | Hindukusch-Gebiet h= 217 km            |
| VIE eiP  |             | 00 20 29 U   |        |                                        |
| eiPcP    |             | 22 25        |        |                                        |
| 18       | VKA ei(P)   | 19 10 03.0   |        | USGS: Guerrero, Mexiko h= 91 km        |
| 19       | VKA eiPn    | 02 25 00.4 C | 585    | CSEM: Bosnien-Herzegowina, Jugoslawien |
|          | eiSn        | 26 00        |        |                                        |
| 19       | VKA eiP     | 06 27 15.5 C |        | USGS: bei der Ostküste von Honshu      |



| Tag | Phase                                                                 | U T C                                                              | D (km) | B e m e r k u n g e n                                                                |
|-----|-----------------------------------------------------------------------|--------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|
| 19  | VKA e<br>ei<br>eiPP                                                   | 22 03 26<br>04 17<br>04 30                                         |        | USGS: Banda-See h= 526 km                                                            |
| 20  | VKA iPn<br>iSn<br>VIE eiPn<br>i(Sn)<br>LmV                            | 00 32 46.3 D<br>33 28<br>00 32 47 R<br>33 30<br>34.1               | 380    | MLV= 5.0<br>CSEM: 00 31 53.5 44.9°N, 17.3°E<br>bei Banja Luka, Jugoslawien           |
| 20  | VKA ePn<br>eiPg<br>eiSn<br>Lm                                         | 00 47 37<br>47 50<br>48 19<br>48.8                                 |        | CSEM: Nachbeben Banja Luka                                                           |
| 20  | VKA ePKP2                                                             | 03 34 25                                                           |        | USGS: Kermadec-Inseln h= 138 km                                                      |
| 20  | VKA iP<br>i<br>VIE LmV                                                | 04 29 27.8 C<br>29 35<br>04 46                                     |        | CSEM: Süd-Iran                                                                       |
| 20  | VKA ei<br>i(Sg)                                                       | 11 03 39.0<br>03 42                                                |        | schwach Nahbeben                                                                     |
| 20  | VKA i                                                                 | 11 37 11.1                                                         |        | Nahbeben auch in MOLIN                                                               |
| 20  | VKA e                                                                 | 18 56 21                                                           |        | COLIM: P 18 55 41                                                                    |
| 20  | VKA eiP<br>eipP<br>ei(S)<br>eSP<br>VIE eiP                            | 20 16 14.9 D<br>18 14<br>26 05<br>26 55<br>20 16 16 R              | 9450   | MPV= 5.3<br>USGS: 20 04 29.4 30.6°N, 137.5°E<br>südlich von Honshu, Japan h= 493 km  |
| 20  | VKA e<br>ei(Sb)                                                       | 21 18 25<br>20 05                                                  |        | CSEM: Rumänien, südöstlich von Bukarest                                              |
| 20  | VKA eiPKIKP<br>i(PP)<br>VIE eiPKIKP<br>iPP<br>LmV                     | 23 32 21.3 D<br>34 43<br>23 32 21<br>34 40<br>24 31                | 14550  | MPPV= 6.5 MLV= 6.7<br>USGS: 23 13 10.4 9.8°S, 160.3°E<br>Salomon-Inseln              |
| 21  | VKA eiPKIKP<br>i(PKP)<br>i(PP)<br>VIE ei(PKIKP)<br>ei<br>i(PP)<br>LmV | 00 02 03.6 D<br>02 17<br>04 35<br>00 02 05<br>02 14<br>04 30<br>59 | 14600  | MPPV= 6.8 MLV= 7.5<br>USGS: 23 42 50.5 9.9°S, 160.3°E<br>Salomon-Inseln double shock |
| 21  | VKA iPKHKP<br>i(PP)<br>VIE iPP                                        | 00 08 13.6 C<br>10 50<br>00 10 44                                  |        | USGS: Salomon-Inseln                                                                 |
| 21  | VKA epPKIKP                                                           | 01 03 54                                                           |        | schwach USGS: Salomon-Inseln                                                         |

| Tag | Phase                                              | U T C                                                   | D (km) | B e m e r k u n g e n                                                    |
|-----|----------------------------------------------------|---------------------------------------------------------|--------|--------------------------------------------------------------------------|
| 21  | VKA eiP<br>e(PP)<br>VIE ei(P)<br>ipPP<br>LmV       | 01 58 52.9 C<br>02 02 32<br>01 58 56<br>02 02 40<br>43  | 10100  | MLV= 6.6<br>USGS: 01 45 50.2 26.9°N, 142.4°E<br>bei den Bonin-Inseln     |
| 21  | VKA eP                                             | 04 05 32                                                |        | schwach CSEM: bei Jan Mayen                                              |
| 21  | VKA e(PKS)<br>VIE eiPKS                            | 04 30 26<br>04 30 24                                    |        | schwach USGS: Salomon-Inseln                                             |
| 21  | VKA eiPKIKP<br>i(PP)<br>VIE eiPKIKP<br>eiPP<br>LmV | 04 43 20.7 C<br>45 43<br>04 43 20.5 U<br>45 37<br>05 41 | 14600  | MPPV= 7.0 MLV= 7.3<br>USGS: 04 24 09.6 10.0°S, 160.7°E<br>Salomon-Inseln |
| 21  | VKA eiPKIKP                                        | 05 25 40.1 C                                            |        | USGS: Salomon-Inseln                                                     |
| 21  | VKA eP<br>VIE LmV                                  | 17 33 48<br>18 19                                       |        | MLV= 5.1 USGS: Raum Bonin-Inseln                                         |
| 22  | VKA ei(P)                                          | 01 02 54.9                                              |        | USGS: bei den Kurilen h= 390 km                                          |
| 22  | VKA e<br>eiSKP<br>VIE ei<br>LmV                    | 03 30 43<br>33 41<br>03 33 32.5<br>04 26                |        | MLV= 5.8 USGS: Salomon-Inseln                                            |
| 22  | VKA ei(P)                                          | 08 28 36.5                                              |        | USGS: bei der Küste von Oregon, USA                                      |
| 22  | VIE LmV                                            | 14 58                                                   |        | MLV= 5.3 USGS: Ostchinesisches Meer                                      |
| 22  | VKA ei(PKP)                                        | 23 30 32.5                                              |        | USGS: Raum Fidschi-Inseln h= 538 km                                      |
| 25  | VKA i(P)                                           | 04 14 33.4                                              |        | USGS: Nukleartest Semipalatinsk, USSR                                    |
| 25  | VKA eiPKHKP<br>ei                                  | 11 50 26.2 C<br>50 59                                   |        | schwach USGS: Salomon-Inseln                                             |
| 25  | VKA ePKP2                                          | 15 23 18                                                |        | USGS: südlich der Tonga-Inseln                                           |
| 25  | VKA eiPKP2                                         | 18 22 03.4                                              |        | USGS: Tonga-Inseln                                                       |
| 26  | VKA eipPKIKP                                       | 04 18 30.9                                              |        | USGS: Raum Papua-Neuguinea                                               |
| 26  | VKA ei<br>i(Sg)                                    | 11 43 43.5<br>43 47                                     |        | schwach Nahbeben                                                         |
| 26  | VKA eP<br>i(PP)<br>e(S)<br>VIE eP<br>ei<br>LmV     | 16 31 24<br>32 27<br>36 16<br>16 31 24<br>32 13<br>46   | 3200   | MLV= 5.0 CSEM: Luristan, Iran                                            |



| Tag | Phase                                                                 | U T C                                                                                      | D (km) | B e m e r k u n g e n                                                      |
|-----|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------|
| 26  | VKA e(pP)                                                             | 23 18 55.9                                                                                 |        | USGS: bei den Kurilen                                                      |
| 27  | VKA ei(PKIKP)                                                         | 04 13 55.6                                                                                 |        | USGS: Südpazifik-Kordillere                                                |
| 27  | VKA eiSg                                                              | 08 32 05.9                                                                                 |        | WIEN: Nordböhmen, CSSR                                                     |
| 27  | VKA ei                                                                | 13 00 04.7                                                                                 |        | schwach                                                                    |
| 27  | VKA eiP                                                               | 15 12 37.6                                                                                 |        | USGS: Nukleartest Süd-Nevada, USA                                          |
| 27  | VKA ei<br>i(Sg)<br>Im                                                 | 15 32 11.8<br>32 27<br>32.6                                                                |        | schwach Nahbeben                                                           |
| 27  | VKA ei<br>eiSgSg                                                      | 23 30 14.0<br>30 18                                                                        |        | CSEM: bei Montluçon, Frankreich                                            |
| 28  | VKA eiPn<br>iPg<br>iSn<br>i<br>Im<br>VIE e(Pn)<br>i(Pg)<br>(i)<br>ImV | 03 42 50.7 D<br>43 04.6 D<br>43 33<br>43 57<br>44.1<br>03 42 53<br>43 07<br>44(00)<br>44.2 | 395    | MLV= 3.6<br>CSEM: 03 41 58.6 44.9°N, 17.3°E<br>bei Banja Luka, Jugoslawien |
| 28  | VKA eiPn<br>ei<br>iSn<br>Im                                           | 06 22 31.4 D<br>22 42<br>23 12<br>23.7                                                     | 390    | CSEM: Nachbeben Banja Luka                                                 |
| 29  | VKA ei<br>i<br>i(Sn)                                                  | 08 00 55.3<br>01 21<br>01 28                                                               |        | WIEN: Nordböhmen, CSSR                                                     |
| 29  | VKA ei(Pg)<br>i(Sg)                                                   | 11 00 30.3<br>01 08                                                                        |        | COLIM: Pg 10 59 56.8                                                       |
| 30  | VKA eiP                                                               | 14 42 46.3 C                                                                               |        | schwach CSEM: Süd-Iran                                                     |
| 30  | VKA ei(P)                                                             | 16 30 31.1                                                                                 |        | schwach                                                                    |
| 30  | VKA ei                                                                | 18 54 40.1                                                                                 |        | USGS: bei den Philippinen                                                  |
| 30  | VKA eiP                                                               | 23 37 18.1 D                                                                               |        | CSEM: Norwegisches Meer                                                    |
| 30  | VKA ei                                                                | 23 42 17.3                                                                                 |        | schwach MOXA: P 23 41(04)                                                  |

W i e n , 2. Juni 1978

J. D r i m m e l  
E. F i e g w e i l

- M a i 1977 -

| Tag | Phase                                      | U T C                                        | D (km) | B e m e r k u n g e n                             |
|-----|--------------------------------------------|----------------------------------------------|--------|---------------------------------------------------|
| 01  | VKA eiP                                    | 01 09 28.3 C                                 |        | schwach USGS: Nord-Sumatra                        |
| 01  | VKA eiPg<br>eiSg                           | 03 11 31.7 C<br>12 04                        | 270    | COLIM: Bergschlag Oberschlesien                   |
| 01  | VKA eiP                                    | 03 38 42.1 C                                 |        | schwach USGS: Nord-Sumatra                        |
| 01  | VKA iP                                     | 05 42 49.3 C                                 |        | schwach                                           |
| 01  | VIE ImV                                    | 17 08                                        |        | MLV= 5.0 USGS: Süd-Honshu, Japan                  |
| 01  | VKA eiPKIKP                                | 18 58 25.3 C                                 |        | schwach USGS: Salomon-Inseln                      |
| 02  | VKA eiP<br>eisP                            | 15 24 02.5 C<br>24 19                        |        | schwach CSEM: Nordost-Iran                        |
| 02  | VKA eP<br>eiPP<br>VIE ei(P)<br>eiPP<br>ImV | 22 07 20<br>11 17<br>22 07 22<br>11 18<br>52 | 10650  | MPPV= 5.9 MLV= 5.3<br>USGS: Mindanao, Philippinen |
| 02  | VKA eiPKP                                  | 22 54 53.1 D                                 |        | USGS: Raum Fidschi-Inseln                         |
| 03  | VKA iP                                     | 03 27 31.0 C                                 |        | USGS: Raum Bonin-Inseln h= 312 km                 |
| 03  | VKA i                                      | 15 32 32.2                                   |        | schwach                                           |
| 03  | VKA iSg                                    | 15 40 28.3                                   |        | WIEN: West-Polen                                  |
| 03  | VKA ei                                     | 17 58 42.4                                   |        | CSEM: östliches Mittelmeer                        |
| 04  | VKA eiP                                    | 02 07 38.2 D                                 |        | CSEM: Farsistan, Südwest-Iran                     |
| 04  | VKA e<br>ei<br>eiPcP<br>VIE e              | 02 45 35<br>45 55<br>47 16<br>02 47 42       |        | USGS: Grenze Afghanistan-USSR<br>h= 122 km        |
| 04  | VKA eiPg<br>eiSg<br>ImV                    | 13 58 50.0 C<br>59 12<br>59.2                | 185    | WIEN: Südböhmen, CSSR                             |
| 05  | VKA ei(PKHKP)<br>eiPKP2<br>VIE ePKHKP      | 22 27 06.5<br>27 12<br>22 27 05              |        | USGS: Raum Tonga-Inseln                           |
| 06  | VKA eiP<br>VIE eiP                         | 04 05 30.2 C<br>04 05 30 U                   |        | MPV= 5.2 USGS: bei den Kurilen                    |



| Tag | Phase                                            | U T C                                                     | D (km) | B e m e r k u n g e n                         |
|-----|--------------------------------------------------|-----------------------------------------------------------|--------|-----------------------------------------------|
| 06  | VKA i(Sg)                                        | 10 58 04.1                                                |        | WIEN: Nord-Böhmen, ČSSR                       |
| 06  | VKA eP                                           | 21 49 37                                                  |        | USGS: bei den Kurilen                         |
| 07  | VKA ei<br>eiSn<br>iSg                            | 00 31 34.0<br>31 55<br>32 04                              |        | COLIM: Bergschlag, Oberschlesien              |
| 07  | VKA eP                                           | 01 09 34                                                  |        | USGS: Südatlantik-Rücken                      |
| 07  | VKA eiP<br>iPPP<br>VIE eP<br>i<br>e<br>ImV       | 02 18 54.0 D<br>19 41<br>02 18 55<br>19 01<br>23 34<br>30 |        | MLV= 5.0 CSEM: bei Jan Mayen                  |
| 07  | VKA ei                                           | 06 58 10.5                                                |        | schwach                                       |
| 07  | VKA ei(Sg)<br>ImV                                | 08 57 28.0<br>57 31                                       |        | schwach Nahbeben                              |
| 07  | VKA ePKIKP<br>eiPKHKP                            | 15 31 21<br>31 25                                         |        | USGS: Raum Tonga-Inseln                       |
| 07  | VKA eSg                                          | 15 41 44                                                  | 90     | WIEN: Kleine Karpaten, ČSSR                   |
| 07  | VKA ei(P)                                        | 16 07 16.9                                                |        | schwach USGS: Kurilen                         |
| 07  | VKA eP                                           | 16 46 27                                                  |        | schwach USGS: Kurilen                         |
| 07  | VKA eiPKIKP<br>ePKP2                             | 18 44 32.5 D<br>45 02                                     |        | USGS: südlich der Fidschi-Inseln<br>h= 450 km |
| 07  | VKA eiPKHKP<br>VIE eiPKHKP                       | 19 55 20.0<br>19 55 20                                    |        | USGS: Raum Tonga-Inseln                       |
| 08  | VKA ePKP                                         | 00 16 25                                                  |        | USGS: Raum Samoa-Inseln                       |
| 08  | VKA ePKHKP<br>ei<br>ePKP2                        | 04 57 18<br>57 21<br>57 26                                |        | schwach USGS: Tonga-Inseln                    |
| 08  | VKA e<br>ei(Pb)<br>eiPgPg<br>iSn<br>i<br>VIE ImV | 10 04 09<br>04 17<br>04 29<br>05 03<br>05 26<br>10 06.4   | 600    | MLV= 3.4 CSEM: Montenegro, Jugoslawien        |
| 08  | VKA eiP                                          | 15 36 38.1 C                                              |        | USGS: Nordatlantik-Rücken                     |
| 08  | VKA eP<br>ei                                     | 16 58 42<br>58 56                                         |        | USGS: bei der Küste von Ecuador               |
| 08  | VKA ei                                           | 17 46 05.6                                                |        | KÁSPERSKÉ HORY: Pn 17 45 53.5                 |

| Tag | Phase                                           | U T C                                                          | D (km) | B e m e r k u n g e n                                                            |
|-----|-------------------------------------------------|----------------------------------------------------------------|--------|----------------------------------------------------------------------------------|
| 08  | VIE ImV                                         | 20 22                                                          |        | schwach                                                                          |
| 08  | VKA eiSg                                        | 23 12 24.2                                                     |        | CSEM: Rheintal bei St. Goar, BRD                                                 |
| 09  | VKA iPg<br>iLR<br>VIE eiPg<br>i                 | 09 36 42.8 C<br>36 45.1<br>09 36 42 U<br>36 43                 |        | WIEN: Explosion einer 250-kg-Bombe<br>im Donaukanal                              |
| 09  | VKA ePKIKP                                      | 10 45 35                                                       |        | USGS: Oster-Insel-Kordillere                                                     |
| 09  | VKA ei                                          | 11 04 03.8                                                     |        | schwach                                                                          |
| 09  | VKA eiP<br>VIE eiP                              | 15 14 56.7 D<br>15 14 57.5 R                                   |        | USGS: Ostchinesisches Meer h= 109 km                                             |
| 09  | VKA eiSg                                        | 22 05 27.3                                                     |        | TRIESTE: Friaul                                                                  |
| 10  | VKA eiPKP                                       | 02 21 11.6 C                                                   |        | USGS: Raum Fidschi-Inseln h= 569 km                                              |
| 10  | VKA e<br>ePP<br>eipPP                           | 22 46 23<br>46 58<br>47 10                                     |        | schwach USGS: Halmahera                                                          |
| 11  | VKA ei(PKIKP)<br>ePP                            | 00 12 19.5<br>14 10                                            |        | USGS: bei Neubritannien                                                          |
| 11  | VKA e<br>e<br>eiSg                              | 11 23 33<br>23 55<br>24 16                                     |        | WIEN: Oberschlesien, Polen                                                       |
| 11  | VKA eiP<br>e(sP)                                | 23 52 06.7 D<br>52 25                                          |        | schwach USGS: West-Iran                                                          |
| 12  | VKA epPKP2                                      | 00 32 12                                                       |        | USGS: bei den Tonga-Inseln                                                       |
| 12  | VKA ImV                                         | 09 10                                                          |        | MLV= 5.1 USGS: Mindoro, Philippinen                                              |
| 12  | VKA e<br>i                                      | 09 20 52<br>21 14                                              |        | schwach                                                                          |
| 12  | VKA eiP<br>i<br>i<br>VIE eiP<br>eipP<br>ImV     | 11 28 55.6 D<br>29 05<br>31 49<br>11 28 56 R<br>29 03<br>12 00 | 7600   | MPV=MLV= 5.9<br>USGS: 11 17 53.1 39.3°N, 117.7°E<br>Provinz Hopei, Nordost-China |
| 12  | VKA eiP<br>eipP<br>VIE eiP<br>ei<br>eipP<br>ImV | 12 30 41.1 C<br>30 51<br>12 30 42 U<br>31 09<br>33 05<br>13 02 | 7250   | MPV= 5.7 MLV= 5.5<br>USGS: 12 20 00.7 21.7°N, 93.0°E<br>Burma                    |
| 12  | VKA iPg<br>iSg                                  | 13 06 09.2 C<br>06 28.6                                        | 160    | WIEN: Mähren, ČSSR                                                               |



| Tag | Phase                                                                    | U T C                                                                                         | D (km) | B e m e r k u n g e n                                                               |
|-----|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 12  | VKA ei(P)<br>VIE ei<br>ImV                                               | 14 13 52.4<br>14 13 56<br>58                                                                  |        | MLV= 5.5 USGS: Luzon, Philippinen                                                   |
| 12  | VKA ei(PKP)                                                              | 15 44 22.8                                                                                    |        | USGS: Raum Fidschi-Inseln h= 628 km                                                 |
| 12  | VKA ei(P)<br>i                                                           | 21 49 06.7<br>49 13                                                                           |        | USGS: Kurilen h= 126 km                                                             |
| 12  | VKA i<br>ei                                                              | 22 32 21.6<br>32 48                                                                           |        | KASPERSKÉ HORY: Pn 22 32 00.0                                                       |
| 13  | VKA eiP                                                                  | 01 38 54.9 D                                                                                  |        | USGS: Raum Ostküste von Honshu, Japan                                               |
| 13  | VKA iSg                                                                  | 11 20 04.9                                                                                    | 110    | WIEN: Kleine Karpaten, ČSSR                                                         |
| 13  | VKA eiP<br>epP<br>ei<br>eiPP<br>eiSKS<br>VIE iP<br>eipP<br>esP<br>iPP    | 11 25 36.2 D<br>27 17<br>28 09<br>29 14<br>35 22<br>11 25 37 R<br>27 16<br>28 02<br>29 13     | 9800   | MPV=MPPV= 6.2<br>USGS: 11 13 31.2 28.4°N, 139.5°E<br>bei den Bonin-Inseln h= 430 km |
| 13  | VKA ei                                                                   | 11 58 24.7                                                                                    |        | schwach                                                                             |
| 13  | VKA ei(P)                                                                | 16 17 13.3                                                                                    |        | schwach CSEM: Ägäis                                                                 |
| 13  | VKA eiP<br>ei(S)<br>ei<br>VIE eP<br>eS<br>ImV                            | 18 20 19.1 D<br>22 27<br>23 51<br>18 20 19<br>22 19<br>25                                     | 1170   | MLV= 4.5<br>CSEM: 18 17 48.0 39.1°N, 23.6°E<br>Griechenland                         |
| 13  | VKA e(PKP)                                                               | 20 00 52                                                                                      |        | USGS: Raum Fidschi-Inseln h= 627 km                                                 |
| 14  | VKA eiPn<br>iPg<br>iSn<br>iSg<br>ImV<br>VIE e<br>e<br>eiSg<br>ImV<br>ImR | 03 40 38.4 C<br>41 02<br>41 38<br>42.07<br>42.5<br>03 40 46<br>41 43<br>42 06<br>42.5<br>42.8 | 570    | MLV= 3.9<br>CSEM: 03 39 23.7 43.1°N, 16.0°E<br>bei der Insel Vis, Adria             |
| 14  | VIE e<br>ImV                                                             | 06 20 39<br>54                                                                                |        | MLV= 5.3<br>USGS: bei der Küste von Ecuador                                         |
| 14  | VIE ImV                                                                  | 07 48                                                                                         |        | MLV= 5.3 USGS: bei Ecuador                                                          |
| 14  | VKA ei(Sg)                                                               | 20 37 50.5                                                                                    |        | COLIM: West-Polen                                                                   |

| Tag | Phase                                                                    | U T C                                                                     | D (km) | B e m e r k u n g e n                                             |
|-----|--------------------------------------------------------------------------|---------------------------------------------------------------------------|--------|-------------------------------------------------------------------|
| 14  | VKA e(P)<br>eiPP                                                         | 21 48 08<br>48 24                                                         |        | CSEM: nordöstliche Türkei                                         |
| 15  | VKA e(P)<br>eipP                                                         | 00 32 20<br>33 17                                                         |        | USGS: bei den Kurilen h= 221 km                                   |
| 15  | VKA ei(P)                                                                | 14 09 55.2                                                                |        | USGS: Zentralindischer Rücken                                     |
| 15  | VKA ei(Pn)<br>eiSn<br>eiSg                                               | 15 44 13.9<br>44 56<br>45 16                                              | 420    | WIEN: Adria bei der Küste von Istrien                             |
| 15  | VKA eiP<br>ei(sP)<br>VIE eP                                              | 16 02 52.8 C<br>03 12<br>16 02 53                                         |        | schwach USGS: Aleuten                                             |
| 15  | VKA eP                                                                   | 18 50 44                                                                  |        | USGS: Zentralindischer Rücken                                     |
| 15  | VKA e                                                                    | 18 57 25                                                                  |        | PRUHONICE: P 18 57 06.0                                           |
| 15  | VKA ePKIKP<br>eiPKHKP<br>iPKP2<br>eipPKP<br>VIE ePKHKP<br>iPKP2<br>epPKP | 23 31 37 D<br>31 41 D<br>31 46 D<br>33 41<br>23 31 42<br>31 46 R<br>33 43 | 16500  | USGS: 23 12 53.6 19.1°S, 177.7°W<br>Raum Fidschi-Inseln h= 499 km |
| 16  | VKA iP                                                                   | 08 19 32.1                                                                |        | CSEM: nordöstlich von Kreta                                       |
| 16  | VKA ei(P)<br>VIE ImV                                                     | 16 53 29.0<br>17 05                                                       |        | MLV= 4.6 CSEM: bei Island                                         |
| 17  | VKA eiP                                                                  | 14 28 11.4                                                                |        | USGS: Grenze Kolumbien-Panama                                     |
| 18  | VKA eiP                                                                  | 04 08 23.0 C                                                              |        | USGS: Kamtschatka h= 158 km                                       |
| 18  | VKA eiPKHKP<br>eiPKIKP                                                   | 07 02 28.9 D<br>02 30 C                                                   |        | USGS: Neue-Hebriden h= 217 km                                     |
| 18  | VKA eiSg                                                                 | 13 05 24.0                                                                |        | WIEN: Nordböhmen, ČSSR                                            |
| 18  | VKA ei(PKIKP)<br>ei(PKHKP)<br>i(PKP2)                                    | 15 33 38.7<br>33 44<br>33 47                                              |        | auch in PRU und KHC                                               |
| 19  | VKA ei(P)                                                                | 00 14 43.5                                                                |        | CSEM: Farsistan, West-Iran                                        |
| 19  | VKA eiPKP                                                                | 19 07 40.7                                                                |        | USGS: Raum Fidschi-Inseln h= 586 km                               |
| 19  | VKA eiP<br>VIE ImV                                                       | 23 05 37.8 C<br>23 25                                                     |        | MLV= 4.5 CSEM: Süd-Iran                                           |
| 19  | VKA (ei)P                                                                | 23 12(00)                                                                 |        | schwach CSEM: Süd-Iran                                            |



| Tag | Phase                                                           | UTC                                                                               | D (km) | Bemerkungen                                                                       |
|-----|-----------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|
| 20  | VKA ePKIKP<br>eiPKHKP<br>iPKP2                                  | 21 24 44<br>24 53<br>25 08                                                        |        | USGS: südlich der Fidschi-Inseln                                                  |
| 20  | VKA eiP<br>eisP<br>e<br>VIE eP<br>LmV                           | 23 04 13.7 C<br>04 29<br>07 35<br>23 04 14<br>55                                  |        | MLV= 5.3 USGS: Süd-Sumatra                                                        |
| 21  | VKA ePKS<br>VIE LmV                                             | 00 19 04.0<br>01 13                                                               |        | schwach USGS: Salomon-Inseln                                                      |
| 21  | VKA eiP<br>eiPP<br>(e)SKS<br>eS<br>VIE iP<br>iPP<br>eiSP<br>LmV | 05 47 51.3 D<br>51 22<br>58(00)<br>58 17<br>05 47 52 R<br>51 24<br>59 14<br>06 27 | 9750   | MPV=MPPV= 6.0<br>USGS: 05 35 22.5 15.7°N, 120.8°E<br>Luzon, Philippinen h= 189 km |
| 21  | VKA i(Pg)<br>ei                                                 | 06 58 14.8<br>58 38                                                               |        | schwach                                                                           |
| 21  | VKA i(Sg)                                                       | 10 31 33.6                                                                        |        | MOLLN: Pg 10 31 34.5                                                              |
| 21  | VKA eiP                                                         | 13 53 14.0 D                                                                      |        | USGS: Raum Bonin-Inseln h= 340 km                                                 |
| 22  | VKA eiPKHKP<br>iPKP2<br>eipPKIKP                                | 23 46 12.3 D<br>46 20 D<br>47 36                                                  |        | USGS: Raum Fidschi-Inseln h= 350 km                                               |
| 23  | VKA iP<br>ipP<br>VIE iP<br>ei(pP)                               | 22 08 24.6 C<br>08 37<br>22 08 25 U<br>08 39                                      | 9400   | USGS: Nord-Sumatra                                                                |
| 24  | VKA eiP<br>e(PP)<br>VIE eiP<br>LmV                              | 07 59 25.4 C<br>08 03 13<br>07 59 26 R<br>08 44                                   |        | MLV= 5.0 USGS: Raum Vulkan-Inseln                                                 |
| 24  | VKA ei(P)<br>ei(pP)<br>ei<br>eiPKKP<br>VIE e<br>ei<br>e         | 10 36 43.3<br>37 39<br>41 26<br>53 35<br>10 40 40<br>41 55<br>48 38               |        | USGS: Marianen h= 207 km                                                          |
| 24  | VKA iSg                                                         | 11 00 39.4                                                                        |        | WIEN: Nordböhmen, CSSR                                                            |
| 24  | VKA eiP                                                         | 12 50 34.5 D                                                                      |        | schwach CSEM: Süd-Iran                                                            |
| 24  | VKA eiP<br>VIE LmV                                              | 13 06 18.4 D<br>13 23                                                             |        | schwach CSEM: Süd-Iran                                                            |

| Tag | Phase                                                       | UTC                                                                         | D (km) | Bemerkungen                                                                  |
|-----|-------------------------------------------------------------|-----------------------------------------------------------------------------|--------|------------------------------------------------------------------------------|
| 25  | VKA epPKP2                                                  | 05 37 14.0                                                                  |        | USGS: Raum Fidschi-Inseln                                                    |
| 25  | VKA e(PKP2)                                                 | 06 09 33                                                                    |        | USGS: Raum Fidschi-Inseln                                                    |
| 25  | VKA ePKP2<br>ei                                             | 06 41 48<br>42 09                                                           |        | USGS: Raum Fidschi-Inseln                                                    |
| "5  | VKA eiP<br>VIE LmV                                          | 11 07 50.3 C<br>11 23                                                       |        | MLV= 4.1 CSEM: bei Teheran, Iran                                             |
| 25  | VKA eiPKP<br>iPKP2<br>VIE ePKP2                             | 12 28 38.1 D<br>28 43 C<br>12 28 42                                         |        | USGS: Raum Fidschi-Inseln h= 578 km                                          |
| 25  | VKA iP<br>isP<br>eiS<br>VIE iP<br>ipP<br>i(S)<br>LmV        | 15 07 49.3 C<br>08 12<br>17 45<br>15 07 49 U<br>08 06<br>17 48<br>48        | 8900   | MPV= 6.1 MLV= 5.5<br>USGS: 14 55 45.0 4.2°N, 95.8°E<br>Nord-Sumatra          |
| 25  | VKA eiP                                                     | 17 12 38.1                                                                  |        | USGS: Nukleartest Süd-Nevada, USA                                            |
| 26  | VKA eiP<br>ipP<br>eiPP<br>ei<br>VIE eP<br>eiPP<br>ei<br>LmV | 01 40 09.0 D<br>40 26<br>40 36<br>44 29<br>01 40 09<br>40 37<br>44 24<br>52 | 2450   | MPV= 5.0 MLV= 5.2<br>CSEM: 01 35 18.2 38.9°N, 44.4°E<br>beim Van-See, Türkei |
| 26  | VKA eiP                                                     | 09 55 18.7 D                                                                |        | CSEM: beim Van-See Türkei                                                    |
| 27  | VKA eiP                                                     | 02 40 02.1 D                                                                |        | USGS: Tadschikistan, USSR, h= 123 km                                         |
| 27  | VKA eiSn<br>i(Sg)<br>Lm                                     | 08 25 09.2<br>25 23<br>25.5                                                 |        | COLIM: Sprengung<br>WIEN: Nordböhmen, CSSR                                   |
| 27  | VKA ei                                                      | 11 45 10.1                                                                  |        | schwach                                                                      |
| 27  | VKA ei(P)                                                   | 22 35 23.3                                                                  |        | CSEM: bei Kreta h= 88 km                                                     |
| 27  | VKA ePKIKP                                                  | 23 17 22                                                                    |        | schwach USGS: Salomon-Inseln                                                 |
| 28  | VKA eiP<br>ei<br>VIE e<br>e<br>LmV                          | 06 05 44.5 C<br>09 01<br>06 09 06<br>19 32<br>50                            |        | MLV= 5.8 USGS: Sulawesi                                                      |
| 28  | VKA eiPKP2                                                  | 15 30 48.6                                                                  |        | USGS: Raum Balleny-Inseln, Antarktis                                         |
| 29  | VKA ei                                                      | 02 30 46.0                                                                  |        | USGS: bei der Küste von Pakistan                                             |



| Tag | Phase                                                  | U T C                                                 | D (km) | B e m e r k u n g e n                             |
|-----|--------------------------------------------------------|-------------------------------------------------------|--------|---------------------------------------------------|
| 29  | VKA iP<br>(i)Pn<br>VIE eiP                             | 03 04 36.0 C<br>06(00)<br>03 04 36 U                  |        | MPV= 5.2<br>USGS: Nukleartest Semipalatinsk, USSR |
| 29  | VKA e                                                  | 03 17 36.3                                            |        | schwach                                           |
| 29  | VKA ei                                                 | 07 06 25.7                                            |        | schwach                                           |
| 29  | VKA (ei)P                                              | 16 43(59)                                             |        | CSEM: Atlantik bei den Azoren                     |
| 30  | VKA e(P)                                               | 03 47 52                                              |        | USGS: Grenze Iran-USSR                            |
| 30  | VKA eiP<br>VIE eP<br>esS<br>ImV                        | 15 28 06.9 C<br>15 28 07<br>38 16<br>16 01            |        | MLV= 5.6 USGS: Aleuten                            |
| 31  | VKA eiPKIKP<br>eipPKIKP<br>eiPP<br>VIE eiPKIKP<br>eiPP | 15 07 05.9 D<br>07 42<br>09 47<br>15 07 06 U<br>09 47 |        | USGS: Santa-Cruz-Inseln h= 138 km                 |
| 31  | VKA i                                                  | 15 36 17.5                                            |        | MOLLN: Pg 15 36 24.2                              |

W i e n , 3. Juni 1978

J. D r i m m e l  
E. F i e g w e i l

- J u n i 1977 -

| Tag | Phase                                            | U T C                                                                       | D (km) | B e m e r k u n g e n                                                   |
|-----|--------------------------------------------------|-----------------------------------------------------------------------------|--------|-------------------------------------------------------------------------|
| 01  | VKA e<br>ei<br>eiSn<br>iSb<br>Im                 | 02 18 13<br>18 27<br>19 13<br>19 34<br>20.2                                 |        | CSEM: Serbien, Jugoslawien                                              |
| 01  | VKA i(Sg)                                        | 11 55 46.8                                                                  |        | schwach                                                                 |
| 01  | VKA eiP<br>iS<br>Im<br>VIE eiP<br>i<br>ei<br>ImV | 12 58 34.9 D<br>13 01 31<br>05.5<br>12 58 36 R<br>58 58<br>13 01 47<br>06.3 | 1850   | MPV= 5.5 MLV= 5.4<br>CSEM: 12 54 42.9 36.1°N, 31.7°E<br>südliche Türkei |
| 01  | VKA i<br>i<br>Im                                 | 15 13 23.7<br>13 35<br>13.7                                                 |        | schwach MOLLN: Pg 15 13 32                                              |
| 01  | VKA ei(Pg)<br>ei(Sg)<br>ImV                      | 16 00 26.1<br>00 46<br>00.8                                                 |        | schwach MOLLN: Pg 16 00 35                                              |
| 02  | VKA ei<br>e(Sb)<br>eiSg<br>Im                    | 01 53 03.5<br>53 12<br>53 23<br>53.7                                        |        | COLLM: West-Polen                                                       |
| 02  | VKA ei<br>ei                                     | 13 28 51.3<br>29 06                                                         |        | schwach MOLLN: Pg 13 28 47.5                                            |
| 02  | VKA eiPn<br>iSn<br>iSg<br>Im<br>VIE eSg<br>ImV   | 13 33 53.7 C<br>35 02<br>35 44<br>36.1<br>13 35 44<br>36.0                  | 710    | CSEM: 13 32 18.4 53.0°N, 9.6°E<br>Niedersachsen, BRD                    |
| 02  | VKA eiP<br>ei(PP)<br>VIE eP<br>e(sS)<br>ImV      | 15 00 53.4 C<br>01 34<br>15 00 53<br>05 27<br>13                            |        | MLV= 4.9 CSEM: Island                                                   |
| 02  | VKA ei<br>ei(Sg)<br>Im                           | 16 08 03.5<br>08 21<br>08.5                                                 |        | schwach                                                                 |



| Tag | Phase       | U T C        | D (km) | B e m e r k u n g e n                 |
|-----|-------------|--------------|--------|---------------------------------------|
| 02  | VKA eP      | 17 24 03     |        | schwach CSEM: östlich von Kreta       |
| 02  | VKA eiP     | 19 43 22.6 D |        | schwach USGS: Nordatlantik            |
| 03  | VKA (e)P    | 01 12(58)    |        |                                       |
|     | ei(PP)      | 14 37        |        |                                       |
|     | iPcP        | 15 01        |        |                                       |
|     | eiScP       | 18 42        |        |                                       |
|     | VIE Spuren  | 01 13.0      |        | MLV= 5.0 USGS: Tadschikistan, USSR    |
|     | ePP         | 14 32        |        |                                       |
|     | LmV         | 34           |        |                                       |
| 03  | VKA eiP     | 02 33 16.9 D |        | USGS: Raum Ostküste von Kamtschatka   |
| 03  | VKA eiP     | 02 38 30.0 C | 4550   | MPV= 5.6                              |
|     | eipP        | 39 15        |        | USGS: 02 31 04.7 36.4°N, 70.8°E       |
|     | eiPP        | 40 09        |        | Hindukusch-Gebiet                     |
|     | i           | 41 11        |        |                                       |
|     | i           | 46 18        |        |                                       |
|     | VIE eiP     | 02 38 30.5 U |        |                                       |
|     | eipP        | 39 16        |        |                                       |
|     | e           | 40 20        |        |                                       |
|     | i           | 41 11        |        |                                       |
|     | eiS         | 44 21        |        |                                       |
|     | ei          | 46 10        |        |                                       |
|     | LmV         | 48           |        |                                       |
| 03  | VKA ei      | 08 00 16.1   |        | MOLLN: (Pg) 08 00 39.5                |
|     | i(Sg)       | 00 29        |        |                                       |
|     | LmV         | 00 33        |        |                                       |
| 03  | VKA ei      | 09 27 11.1   |        | schwach                               |
|     | LmV         | 27.5         |        |                                       |
| 03  | VKA i(Sg)   | 12 10 20.2   |        | MOLLN: Pg 12 10 04.0                  |
| 03  | VKA ePKHKP  | 14 51 46     |        | USGS: Raum Fidschi-Inseln h= 573 km   |
|     | eiPKP2      | 51 51        |        |                                       |
| 03  | VKA eiPKIKP | 15 36 45.4 D |        | USGS: Neue Hebriden                   |
|     | VIE LmV     | 16 35        |        |                                       |
| 03  | VKA ei(P)   | 23 02 14.2   |        | USGS: Raum Ostküste von Honshu, Japan |
| 04  | VKA ePg     | 09 25 47     | 340    | WIEN: West-Polen                      |
|     | iSn         | 26 13        |        |                                       |
|     | i(Sg)       | 26 28        |        |                                       |
|     | LmV         | 26.6         |        |                                       |
| 04  | VKA e       | 11 32 38     |        | schwach Nahbeben                      |
|     | ei          | 32 46        |        |                                       |
|     | LmV         | 32.95        |        |                                       |
| 05  | VKA ePKIKP  | 03 04 23     |        | MLV= 5.5 USGS: bei Nord-Chile         |
|     | VIE e       | 03 04 32     |        |                                       |
|     | LmV         | 44           |        |                                       |

| Tag | Phase        | U T C        | D (km) | B e m e r k u n g e n                   |
|-----|--------------|--------------|--------|-----------------------------------------|
| 05  | VKA eiP      | 04 51 00.8 C | 3150   | MPV= 5.8 MLV= 5.9                       |
|     | ipP          | 51 18        |        | CSEM: 04 45 13.1 32.7°N, 48.0°E         |
|     | i(sP)        | 51 29        |        | Luristan, Südwest-Iran                  |
|     | iPPP         | 52 06        |        |                                         |
|     | ei           | 55 31        |        |                                         |
|     | VIE eiP      | 04 51 01 U   |        |                                         |
|     | ei           | 52 08        |        |                                         |
|     | ei(S)        | 55 34        |        |                                         |
|     | LmV          | 05 06        |        |                                         |
| 05  | VKA eP       | 05 05 04     |        | CSEM: Luristan, Iran                    |
| 05  | VKA eP       | 06 33 30.3   |        | CSEM: Luristan, Iran                    |
|     | eiPP         | 34 23        |        |                                         |
| 05  | VKA eP       | 07 54 30     |        | USGS: Luristan, Iran                    |
| 05  | VKA eiP      | 08 31 25.8 C |        | MLV= 4.8 CSEM: Luristan, Iran           |
|     | VIE LmV      | 08 47        |        |                                         |
| 05  | VKA eiP      | 08 51 03.8 D |        | CSEM: Luristan, Iran                    |
| 05  | VKA eiP      | 14 01 54.7 D |        | MLV= 3.9 CSEM: Sizilien                 |
|     | ei           | 02 06        |        |                                         |
|     | VIE LmV      | 14 07        |        |                                         |
| 05  | VKA eiPg     | 15 16 03.3   |        | CSEM: Friaul, Italien                   |
|     | eiSn         | 16 28        |        |                                         |
|     | iSg          | 16 40        |        |                                         |
|     | LmV          | 16.9         |        |                                         |
| 05  | VKA e        | 23 22 11     |        | CSEM: Ionisches Meer                    |
|     | eSn          | 23 31        |        |                                         |
|     | e            | 24 16        |        |                                         |
| 06  | VIE LmV      | 02 29        |        | MLV= 5.5 USGS: Raum Süd-Sandwich-Inseln |
| 06  | VKA e        | 04 36 01     |        | MLV= 3.8                                |
|     | VIE LmV      | 04 41        |        | CSEM: Peloponnes, Griechenland          |
| 06  | VKA eiP      | 10 53 11.7 D |        | CSEM: südöstliches Spanien              |
| 06  | VKA i        | 10 59 12.0   |        | auch in PRUHONICE und MOXA              |
| 06  | VKA iPKP2    | 13 05 33.4   |        | USGS: Tonga-Inseln h= 253 km            |
|     | eipPKIKP     | 06 33        |        |                                         |
| 06  | VKA ePb      | 18 00 37     |        | MLV= 3.5 CSEM: Süditalien               |
|     | ei           | 02 11        |        |                                         |
|     | VIE LmV      | 18 05        |        |                                         |
| 06  | VKA eiP      | 18 46 17.0   |        | CSEM: Farsistan, Iran                   |
| 06  | VKA ei(PKP)  | 20 10 37.1   |        | USGS: Raum Fidschi-Inseln h= 609 km     |
| 07  | VKA ei(PKP2) | 08 27 03.6   |        | USGS: südlich der Kermadec-Inseln       |



| Tag | Phase                                | U T C                                           | D (km) | B e m e r k u n g e n                             |
|-----|--------------------------------------|-------------------------------------------------|--------|---------------------------------------------------|
| 07  | VKA ei(Sg)                           | 15 14 32.5                                      |        | PRÜHONICE: Pg 15 13 40.0                          |
| 08  | VKA eiPP                             | 13 43 06.1                                      |        | USGS: Chile-Bolivien h= 144 km                    |
| 08  | VKA ei(PKP)<br>ei<br>ei              | 14 25 01.4<br>25 08<br>26 17                    |        | USGS: Raum Fidschi-Inseln h= 226 km               |
| 08  | VKA eiP<br>i(pP)                     | 14 37 52.8 C<br>38 20                           |        | USGS: Raum Ostküste von Honshu, Japan<br>h= 78 km |
| 08  | VKA eiPP                             | 21 34 48.8                                      |        | USGS: Java-See h= 636 km                          |
| 09  | VKA i(Pg)<br>ei(Sg)                  | 09 26 30.5<br>26 55                             |        | MOLIN: Pg 09 26 22.5                              |
| 09  | VKA eiP<br>ei(pP)                    | 10 11 17.5 D<br>11 33                           |        | schwach USGS: Nord-Sumatra                        |
| 09  | VKA ePn<br>eiPg<br>iSn<br>iSg<br>ImV | 11 29 12.7<br>29 16.0<br>29 35<br>29 38<br>29.7 | 185    | WIEN: Bakony-Wald, West-Ungarn<br>H= 11 28 43.5   |
| 09  | VKA eiP<br>VIE ImV                   | 16 51 41.5 C<br>17 23                           |        | MLV= 4.8 USGS: Südatlantik-Rücken                 |
| 10  | VKA ei(P)                            | 00 51 59.4                                      |        | schwach USGS: Nordost-China                       |
| 10  | VKA e(Pn)<br>eSn<br>eiSg<br>Im       | 02 39 23<br>39 51<br>40 01<br>40.1              | 270    | WIEN: Nordwestböhmen, ČSSR                        |
| 10  | VKA eiP<br>VIE eP<br>ImV             | 02 48 08.4 C<br>02 48 08<br>03 38               |        | MLV= 5.1 USGS: Süd-Sumatra                        |
| 10  | VKA eiPKP2                           | 03 42 52.7 D                                    |        | USGS: Raum Fidschi-Inseln h= 532 km               |
| 10  | VKA iP<br>ePP                        | 05 49 00.4 D<br>51 01                           |        | USGS: Arabisches Meer                             |
| 10  | VKA eP                               | 23 05 49                                        |        | CSEM: östlich von Kreta                           |
| 11  | VKA ei                               | 03 01 30.4                                      |        | schwach                                           |
| 11  | VKA i                                | 12 40 33.1                                      |        | schwach auch in COLIM                             |
| 11  | VKA e                                | 19 38 22                                        |        | schwach                                           |
| 11  | VKA eP                               | 20 41 27                                        |        | schwach CSEM: Nordatlantik-Rücken                 |
| 12  | VKA eiP                              | 08 59 34.1 D                                    |        | USGS: bei Hokkaido, Japan h= 108 km               |
| 12  | VKA ePKP                             | 12 36 13                                        |        | USGS: Neue Hebriden h= 106 km                     |

| Tag | Phase                                                                    | U T C                                                                            | D (km) | B e m e r k u n g e n                                                      |
|-----|--------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------|
| 12  | VKA eiPKP2                                                               | 15 33 48.1                                                                       |        | USGS: Raum Fidschi-Inseln h= 574 km                                        |
| 13  | VKA eiPKIKP<br>eiPKHKP<br>i<br>VIE eiPKIKP<br>ImV                        | 10 28 30.3 D<br>28 34<br>29 06<br>10 28 30 U<br>11 35                            |        | MLV= 5.4 USGS: Tonga-Inseln                                                |
| 13  | VKA ei(Pg)                                                               | 12 00 33.6                                                                       |        | WIEN: Nordwestböhmen, ČSSR                                                 |
| 13  | VKA eiP<br>ei(pP)<br>eiPP<br>VIE e<br>ImV                                | 12 00 44.8 C<br>01 00<br>04 29<br>12 01 14<br>43                                 |        | USGS: Luzon, Philippinen                                                   |
| 14  | VKA eiPKP2                                                               | 08 56 32.3                                                                       |        | USGS: Tonga-Inseln h= 223 km                                               |
| 14  | VKA eiP<br>i<br>i<br>VIE ei(P)<br>ei<br>ImV                              | 21 50 30.7 D<br>50 33<br>50 39<br>21 50 33<br>50 38<br>22 20                     | 7550   | MPV= 6.0 MLV= 5.6<br>USGS: 21 39 35.2 14.1°S, 14.4°W<br>Südatlantik-Rücken |
| 15  | VKA eP<br>VIE Spuren<br>ImV                                              | 00 03 52<br>00 03.9<br>27                                                        |        | MLV= 4.9 USGS: Nordatlantik-Rücken                                         |
| 16  | VKA eiP                                                                  | 02 27 57.7 D                                                                     |        | CSEM: Vrancea, Rumänien h= 136 km                                          |
| 16  | VKA eiPKIKP<br>eiPKP2<br>eipPKIKP<br>VIE eiPKIKP<br>ImV                  | 04 37 13.5 C<br>37 19.5 D<br>37 26<br>04 37 14 U<br>05 46                        |        | USGS: Raum Samoa-Inseln                                                    |
| 17  | VKA eiPKIKP<br>ei(PKHKP)<br>i<br>eipPKP<br>VIE eiPKIKP<br>i<br>ei<br>ePP | 02 47 38.4 D<br>47 44<br>48 18<br>50 21<br>02 47 40 R<br>47 45<br>48 14<br>51 22 | 16550  | USGS: 02 29 09.8 19.9°S, 179.1°W<br>Raum Fidschi-Inseln h= 690 km          |
| 17  | VKA ei<br>ei                                                             | 20 24 38.3<br>26 03                                                              |        | WIEN: Bosnien-Herzegowina                                                  |
| 17  | VKA ei(PKHKP)                                                            | 21 00 05.4                                                                       |        | USGS: Raum Fidschi-Inseln h= 608 km                                        |
| 18  | VKA eiPKIKP                                                              | 02 08 12.3 C                                                                     |        | USGS: Neue Hebriden                                                        |



| Tag | Phase                                                           | U T C                                                                      | D (km) | B e m e r k u n g e n                    |
|-----|-----------------------------------------------------------------|----------------------------------------------------------------------------|--------|------------------------------------------|
| 18  | VKA eiPKIKP<br>i<br>eiPKP2                                      | 10 22 50.5<br>23 01<br>23 05                                               |        | USGS: Raum Fidschi-Inseln h= 567 km      |
| 18  | VKA ePn<br>ei(Pb)<br>eiPg<br>iSb<br>iSg<br>ImV<br>VIE ei<br>ImV | 11 55 04<br>55 10<br>55 14<br>55 44<br>55 53<br>56.0<br>11 55 56.5<br>56.0 | 320    | MLV= 3.4 WIEN: Friaul, Italien           |
| 18  | VKA ei                                                          | 14 13 24.2                                                                 |        | schwach                                  |
| 18  | VKA eiP<br>VIE eP<br>ei(pP)                                     | 14 37 08.2 D<br>14 37 07<br>37 18                                          |        | USGS: westlicher Kaukasus, USSR          |
| 18  | VKA e<br>ei(PP)                                                 | 17 07 18<br>07 30                                                          |        | USGS: Grenze Chile-Bolivien<br>h= 131 km |
| 18  | VKA eiP<br>e                                                    | 18 51 14.3 D<br>51 39                                                      |        | USGS: Südatlantik-Rücken                 |
| 18  | VKA e                                                           | 19 58 26                                                                   |        | auch in GRÄFENBERG                       |
| 18  | VKA eP<br>VIE ImV                                               | 20 49 40<br>21 19                                                          |        | USGS: Südatlantik-Rücken                 |
| 18  | VKA eiPKIKP<br>eiPP<br>eiPKS<br>VIE ePKIKP<br>e<br>e<br>ImV     | 22 30 02.5 D<br>32 25<br>33 36<br>22 30 01<br>32 21<br>33 20<br>23 29      |        | MLV= 5.4 USGS: Salomon-Inseln            |
| 19  | VKA eiPP<br>VIE eiPP                                            | 07 49 32.7<br>07 49 34                                                     |        | USGS: Celebes-See h= 271 km              |
| 19  | VKA eiP<br>VIE eiP<br>ImV                                       | 11 59 01.8 D<br>11 59 02 R<br>12 44                                        |        | MPV= 5.8<br>USGS: Kurilen h= 149 km      |
| 19  | VKA eiP                                                         | 18 27 49.0 C                                                               |        | USGS: Nordatlantik-Rücken                |
| 20  | VKA ePKIKP<br>ei<br>ePKP2<br>VIE ePKIKP<br>ei<br>ImV            | 20 27 38<br>27 42<br>27 46<br>20 27 39<br>27 42<br>21 35                   |        | USGS: Raum Loyalty-Inseln                |
| 20  | VKA e<br>ei                                                     | 21 45 32<br>45 52.5                                                        |        | schwach Nahbeben                         |

| Tag | Phase                                                           | U T C                                                              | D (km) | B e m e r k u n g e n                                                          |
|-----|-----------------------------------------------------------------|--------------------------------------------------------------------|--------|--------------------------------------------------------------------------------|
| 20  | VKA ei                                                          | 22 49 21.3                                                         |        | COLIM: Sg 22 49 50                                                             |
| 21  | VKA ei                                                          | 16 38 08.4                                                         |        | auch in GRÄFENBERG                                                             |
| 21  | VKA i(PKP)                                                      | 19 10 31.0                                                         |        | USGS: Raum Loyalty-Inseln                                                      |
| 21  | VKA eiP<br>VIE (ImV)                                            | 19 17 14.0 C<br>19 32                                              |        | CSEM: südöstlich von Rhodos                                                    |
| 22  | VKA iPKIKP<br>VIE iPKIKP<br>i(PP)<br>ei(SSP)<br>ImV             | 12 28 16.7 D<br>12 28 17 R<br>32 20<br>52 38<br>13 26              | 17000  | MPPV= 7.4 MLV= 7.9<br>USGS: 12 08 33.4 22.9°S, 175.9°W<br>bei den Tonga-Inseln |
| 23  | VKA e<br>i<br>iSn<br>iSg<br>Im                                  | 12 04 34<br>04 49<br>05 09<br>05 25<br>05.6                        |        | WIEN: Oberschlesien, Polen                                                     |
| 23  | VKA ei<br>i(Sg)                                                 | 15 32 54.6<br>33 00.7                                              |        | schwach auch in PRÜHONICE und MOLIN                                            |
| 23  | VKA ePKP2                                                       | 18 21 24                                                           |        | USGS: Raum Fidschi-Inseln h= 98 km                                             |
| 24  | VKA eiPKIKP<br>eiPKHKP<br>eiPKP2<br>VIE ePKIKP<br>eiPKP2<br>ImV | 00 50 08.6 C<br>50 16 C<br>50 28 D<br>00 50 08 U<br>50 27<br>01 51 | 17000  | USGS: bei den Tonga-Inseln                                                     |
| 24  | VKA i(Sb)<br>ei                                                 | 05 55 21.4<br>56 03                                                |        | CSEM: Piemont, Italien                                                         |
| 24  | VKA e<br>i(Sg)                                                  | 08 54 00<br>54 14                                                  |        | MOLIN: Pg 08 53 25.5                                                           |
| 24  | VKA eiP<br>VIE eiP                                              | 16 33 16.8 D<br>16 33 17 R                                         |        | USGS: Süd-Sumatra                                                              |
| 24  | VKA i                                                           | 21 21 13.3                                                         |        | schwach                                                                        |
| 24  | VKA e<br>e<br>e                                                 | 22 27 16<br>27 21<br>27 29                                         |        | auch in KAŠPERSKÉ HORY u.a.                                                    |
| 25  | VKA eiP<br>eipP                                                 | 06 52 18.1 C<br>52 32                                              |        | USGS: Süd-Sumatra                                                              |
| 25  | VKA iPKHKP<br>eiPKP2<br>epPKIKP<br>ei(pPKP2)                    | 15 43 22.0<br>43 35<br>45 46<br>46 05                              |        | USGS: Raum Fidschi-Inseln h= 633 km                                            |



| Tag | Phase                                                                                       | U T C                                                                                                           | D (km) | B e m e r k u n g e n                                           |
|-----|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------|
| 25  | VKA e(P)<br>eipP                                                                            | 22 11 10<br>11 15                                                                                               |        | USGS: Nord-Sinkiang, China                                      |
| 26  | VKA (i)P                                                                                    | 00 22(56)                                                                                                       |        | schwach USGS: Kurilen                                           |
| 26  | VKA eiP                                                                                     | 02 32 37.3 D                                                                                                    |        | CSEM: Süd-Iran                                                  |
| 26  | VKA ePKIKP<br>ePKHKP<br>eiPKP2                                                              | 06 18 59<br>19 08<br>19 23                                                                                      |        | USGS: bei den Tonga-Inseln                                      |
| 26  | VKA (ei)                                                                                    | 11 34(56)                                                                                                       |        | schwach                                                         |
| 26  | VKA ei                                                                                      | 19 07 36.6                                                                                                      |        | schwach                                                         |
| 27  | VKA eiPn<br>iPb<br>iPgPg<br>iSn<br>iSgSg<br>i<br>Im<br>VIE ePgPg<br>iSb<br>ei<br>ImV<br>ImR | 12 34 54.7 C<br>35 06<br>35 20<br>35 54<br>36 30<br>36 32<br>36.7<br>12 35 21<br>36 10<br>36 35<br>37.0<br>37.2 | 570    | MLV= 4.0<br>CSEM: 12 33 37.2 44.3°N, 11.5°E<br>Apennin, Italien |
| 27  | VKA e<br>eiPKHKP<br>iPKP2<br>VIE eiPKP2<br>ImV                                              | 14 31 39<br>31 47<br>32 00<br>14 32 01<br>15 40                                                                 |        | MLV= 5.2 USGS: Raum Fidschi-Inseln                              |
| 27  | VKA eiSg                                                                                    | 15 01 32.6                                                                                                      |        | WIEN: Nordwestböhmen, CSSR                                      |
| 27  | VKA ei(P)                                                                                   | 23 37 15.4                                                                                                      |        | schwach                                                         |
| 28  | VKA ePKIKP<br>eiPKHKP                                                                       | 01 43 21<br>43 27                                                                                               |        | USGS: Tonga-Inseln                                              |
| 28  | VKA eiP                                                                                     | 03 52 02.1 C                                                                                                    |        | CSEM: Süd-Iran h= 85 km                                         |
| 28  | VKA iP<br>i<br>i(S)<br>VIE iP<br>i(S)                                                       | 07 15 05.7 D<br>16 03<br>16 58<br>07 15 06 R<br>17 00                                                           | 1080   | CSEM: 07 12 50.3 38.6°N, 14.7°E<br>Tyrrhenisches Meer h= 255 km |
| 28  | VKA eP<br>i<br>VIE eiP<br>ImV                                                               | 15 48 04<br>48 07<br>15 48 04 U<br>16 12                                                                        | 6050   | MPV= 5.7 MLV= 5.2<br>USGS: Nordatlantik-Rücken                  |
| 28  | VKA eiP<br>VIE eiP<br>ImV                                                                   | 16 27 40.6 D<br>16 27 42<br>52                                                                                  | 6050   | MPV= 5.4 MLV= 5.5<br>USGS: Nordatlantik-Rücken                  |

| Tag | Phase                                                      | U T C                                                          | D (km) | B e m e r k u n g e n                                                       |
|-----|------------------------------------------------------------|----------------------------------------------------------------|--------|-----------------------------------------------------------------------------|
| 28  | VKA eP<br>i<br>ei<br>eS<br>VIE ei(P)<br>eS<br>ImV          | 19 28 00<br>28 03<br>30 00<br>35 36<br>19 28 03<br>35 37<br>53 | 6050   | MPV= 6.2 MLV= 5.6<br>USGS: 19 18 35.8 22.6°N, 45.1°W<br>Nordatlantik-Rücken |
| 28  | VKA eiP<br>VIE ImV                                         | 19 44 28.8<br>20 10                                            |        | MLV= 5.3 USGS: Nordatlantik-Rücken                                          |
| 28  | VKA eiP<br>VIE ImV                                         | 22 16 36.5 C<br>23 09                                          |        | schwach USGS: Molukken-See                                                  |
| 29  | VKA ei<br>é                                                | 01 43 48.8<br>44 42                                            |        | schwach                                                                     |
| 29  | VKA eiP                                                    | 03 14 36.5 C                                                   |        | USGS: Nukleartest Semipalatinsk, USSR                                       |
| 29  | VKA ePKIKP<br>eiPKP2<br>VIE ImV                            | 03 31 28<br>31 48<br>04 44                                     |        | MLV= 5.3 USGS: Raum Tonga-Inseln                                            |
| 29  | VKA ei<br>ei(Sg)<br>Im                                     | 07 31 03.6<br>31 13<br>31.3                                    |        | schwach                                                                     |
| 29  | VKA eiPKIKP<br>eiPP<br>ei(pPSP)<br>VIE eiPP<br>epPS<br>ImV | 07 42 52.0 D<br>43 28<br>54 08<br>07 43 28<br>53 04<br>08 27   | 12200  | MPPV= 6.4 MLV= 5.3<br>USGS: Banda-See                                       |
| 29  | VKA eisS                                                   | 09 09 42                                                       |        | schwach USGS: Aleuten                                                       |
| 29  | VKA eiP<br>VIE eiP                                         | 13 09 17.2 C<br>13 09 18 U                                     |        | USGS: Zentralindischer Rücken                                               |
| 30  | VKA e(Pb)<br>ePg<br>eiSb<br>iSg<br>VIE e                   | 16 06 40<br>06 47<br>07 15<br>07 24<br>16 07 28                | 320    | WIEN: Friaul, Italien                                                       |
| 30  | VKA iP<br>VIE e                                            | 19 31 06.4 C<br>19 35 08                                       |        | CSEM: Tyrrhenisches Meer                                                    |
| 30  | VKA eP                                                     | 19 36 46                                                       |        | schwach auch in MOXA und MOLLN                                              |

W i e n , 6. Juni 1978

J. Drimmel  
E. Fiege weil



Zentralanstalt für Meteorologie und Geodynamik in Wien

VKA, VIE

Seismische Aufzeichnungen in Wien

Seite 45  
1977 - 07

- J u l i 1 9 7 7 -

| Tag | Phase                                                    | U T C                                                                | D (km) | B e m e r k u n g e n                      |
|-----|----------------------------------------------------------|----------------------------------------------------------------------|--------|--------------------------------------------|
| 01  | VKA eiP                                                  | 09 59 49.2 C                                                         |        | schwach USGS: Nord-Sumatra                 |
| 01  | VKA ePgPg                                                | 12 43 16                                                             |        | CSEM: Nord-Griechenland                    |
| 01  | VKA eiP<br>eipP<br>eiScP                                 | 14 51 33.2 C<br>52 27<br>56 50                                       |        | USGS: Grenze Afghanistan-USSR<br>h= 257 km |
| 01  | VKA eiP                                                  | 15 44 42.0 D                                                         |        | schwach USGS: Kurilen                      |
| 01  | VKA e                                                    | 18 36 37                                                             |        | schwach CSEM: Island                       |
| 01  | VKA eiP                                                  | 21 54 01.4 D                                                         |        | USGS: östlicher Kaukasus, USSR             |
| 02  | VKA e<br>eiPKIKP<br>ei<br>VIE e<br>LmV                   | 01 14 04<br>14 22<br>14 35<br>01 14 36<br>02 16                      |        | MLV= 5.6 USGS: Salomon-Inseln              |
| 03  | VKA e<br>eSg                                             | 10 30 09<br>31 23                                                    |        | schwach CSEM: Po-Ebene, Italien            |
| 03  | VKA eiPn<br>iPg<br>ei<br>iSg<br>VIE e<br>ei              | 11 45 44.4 D<br>45 54<br>46 22<br>46 33<br>11 46 24<br>46 37         | 330    | CSEM: Friaul, Italien                      |
| 03  | VKA eiPn                                                 | 12 15 17.6 D                                                         |        | CSEM: Dauphiné, Frankreich                 |
| 03  | VKA e(P)                                                 | 13 07 47                                                             |        | schwach USGS: Aleuten                      |
| 03  | VKA eP<br>e(SKS)<br>VIE eP<br>e<br>e<br>e(PKPPKP)<br>LmV | 14 53 06<br>15 03 45<br>14 53 08<br>57 10<br>15 04 12<br>17 16<br>44 |        | MLV= 5.9 USGS: Molukken-Passage            |
| 04  | VKA ePKHKP<br>ePKP2                                      | 08 52 10<br>52 22                                                    |        | USGS: Oster-Insel-Kordillere               |
| 05  | VKA eiP                                                  | 02 40 31.2 C                                                         |        | KASPERSKÉ HORY: P 02 40 31.5               |
| 05  | VKA eP                                                   | 16 12 41                                                             |        | schwach USGS: Ryukyu-Inseln                |



| Tag | Phase                                                                                                       | U T C                                                                                                  | D (km) | B e m e r k u n g e n                                                |
|-----|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------|
| 05  | VKA e<br>e                                                                                                  | 19 41 58<br>42 05                                                                                      |        | MOXA: P 19 42 08.5                                                   |
| 06  | VKA eSg                                                                                                     | 03 32 07                                                                                               |        | USGS: Schwäbische Alb, BRD                                           |
| 06  | VIE LmV                                                                                                     | 05 29                                                                                                  |        | MLV= 5.4 USGS: bei Panama                                            |
| 06  | VKA eiP<br>ipP<br>epPP<br>VIE eP<br>epP<br>LmV                                                              | 08 58 11.5 D<br>58 22<br>09 00 30<br>08 58 12<br>58 21<br>09 30                                        | 6200   | MLV= 5.0<br>USGS: 08 48 38.2 6.2°S, 29.5°E<br>Raum Tanganyika-See    |
| 06  | VKA eiPKIKP<br>iPKHKP<br>iPKP2<br>VIE iPKIKP<br>iPKHKP<br>iPKP2<br>eipPKIKP<br>esPKIKP<br>eisPKP2<br>e(sPP) | 11 47 10.9 D<br>47 18<br>47 27 C<br>11 47 12 R<br>47 19<br>47 27 R<br>49 31<br>50 32<br>50 46<br>54 00 | 16700  | USGS: 11 28 31.5 21.1°S, 178.6°W<br>bei den Fidschi-Inseln h= 594 km |
| 07  | VKA e<br>ePg<br>eiSg                                                                                        | 08 41 13<br>41 20<br>41 57                                                                             |        | TRIESTE: Friaul                                                      |
| 08  | VKA eiP<br>epP                                                                                              | 05 32 54.9 D<br>33 26                                                                                  |        | USGS: Grenze Afghanistan-USSR<br>h= 212 km                           |
| 08  | VKA iP<br>ei<br>VIE e                                                                                       | 06 30 52.9 C<br>31 09<br>06 31 52                                                                      |        | USGS: Äthiopien                                                      |
| 08  | VKA e<br>ei                                                                                                 | 09 06 09<br>06 18                                                                                      |        | USGS: Salomon-Inseln h= 127 km                                       |
| 08  | VKA eiP<br>eipP<br>ei                                                                                       | 18 11 45.9 D<br>12 00<br>12 09                                                                         |        | USGS: Ryukyu-Inseln                                                  |
| 08  | VKA eP<br>VIE LmV                                                                                           | 22 25 33<br>23 05                                                                                      |        | MLV= 5.3 USGS: Ostchinesisches Meer                                  |
| 09  | VKA ePg<br>eSg                                                                                              | 10 00 11<br>00 44                                                                                      | 275    | COLIM: West-Polen                                                    |
| 09  | VKA e(P)                                                                                                    | 10 27 49                                                                                               |        | schwach CSEM: Kreta                                                  |
| 09  | VKA eP<br>VIE LmV                                                                                           | 15 06 24<br>15 47                                                                                      |        | MLV= 5.2 USGS: Ostchinesisches Meer                                  |
| 09  | VKA eiPKIKP<br>ePKP2<br>ei                                                                                  | 17 03 57.2 D<br>04 18<br>04 32                                                                         |        | USGS: bei den Tonga-Inseln                                           |

| Tag | Phase                                                                           | U T C                                                                                     | D (km) | B e m e r k u n g e n                                           |
|-----|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------|
| 10  | VKA iP                                                                          | 00 29 00.1 C                                                                              |        | USGS: Atlantisch-indischer-Rücken                               |
| 10  | VKA ePKIKP<br>VIE epPP<br>e(PS)<br>LmV                                          | 02 00 51<br>02 02 10<br>11 14<br>42                                                       |        | USGS: Raum Süd-Sandwich-Inseln<br>h= 122 km                     |
| 10  | VKA ePKHKP<br>eiPKIKP<br>VIE ePKHKP<br>LmV                                      | 02 56 48<br>56 51 C<br>02 56 49<br>04 00                                                  |        | USGS: Neue Hebriden                                             |
| 10  | VKA ePKHKP<br>ePKP2<br>epPKP<br>eipPKP2<br>VIE epPKP2                           | 04 39 13<br>39 24<br>41 29<br>41 37<br>04 41 36                                           |        | USGS: Raum Fidschi-Inseln h= 582 km                             |
| 10  | VKA e(P)                                                                        | 05 27 29                                                                                  |        | auch in PRUHONICE u.a.                                          |
| 10  | VKA e(PKIKP)<br>ePKHKP<br>eiPKP2<br>epPKIKP<br>eipPKP2<br>VIE e(PKP)<br>e(pPKP) | 05 30 21<br>30 23<br>30 37<br>32 41<br>32 57<br>05 30 22<br>32 44                         | 16750  | USGS: Raum Fidschi-Inseln h= 607 km                             |
| 11  | VIE LmV                                                                         | 10 30                                                                                     |        | schwach USGS: Aleuten                                           |
| 11  | VKA eiP                                                                         | 12 47 40.8 C                                                                              |        | USGS: Kurilen                                                   |
| 11  | VKA ePKP                                                                        | 19 30 25                                                                                  |        | USGS: Neue Hebriden                                             |
| 13  | VKA iP<br>i<br>ei<br>VIE e<br>LmV                                               | 08 17 17.6 C<br>17 45<br>18 30<br>08 17 35<br>37                                          |        | MLV= 5.1 USGS: Pakistan                                         |
| 13  | VKA ePKIKP<br>epPKP                                                             | 14 25 44<br>26 05                                                                         |        | USGS: Raum Tonga-Inseln                                         |
| 14  | VKA iP<br>eipP<br>eisP<br>ei(PP)<br>iPcP<br>VIE iP<br>ei(PP)<br>e<br>LmV        | 05 55 54.5 C<br>56 05<br>56 09<br>57 15<br>58 31<br>05 55 55 U<br>57 14<br>58 29<br>06 14 | 3800   | MLV= 5.2<br>USGS: 05 49 08.7 40.3°N, 63.7°E<br>Usbekistan, USSR |
| 14  | VKA eiP                                                                         | 07 20 53.1 D                                                                              |        | CSEM: Island                                                    |



| Tag | Phase                                                                              | U T C                                                                             | D (km) | B e m e r k u n g e n                                                                                                                           |
|-----|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 14  | VKA eiPP<br>eipPP<br>ei(sPP)                                                       | 15 32 18.9<br>32 28<br>32 36                                                      |        | CSEM: Laristan, Iran                                                                                                                            |
| 14  | VKA eiP                                                                            | 17 44 14.6 C                                                                      |        | USGS: Südatlantik-Rücken                                                                                                                        |
| 15  | VKA eiP<br>eipPP<br>VIE iP<br>ePP<br>LmV                                           | 02 25 14.1 C<br>28 25<br>02 25 15 U<br>28 26<br>03 08                             | 9100   | MLV= 5.5 USGS: bei Taiwan                                                                                                                       |
| 16  | VKA e(PKP)                                                                         | 11 36 17                                                                          |        | USGS: Raum Tonga-Inseln                                                                                                                         |
| 16  | VKA ei(Pn)<br>iPg<br>i<br>VIE ei(Pn)<br>iPg<br>i(Sn)<br>iSg<br>LmV                 | 13 14 10.9 D<br>14 16.5<br>14 45<br>13 14 11 R<br>14 17<br>14 43<br>14 50<br>14.9 | 270    | CSEM: 13 13 32.1 46.3°N, 14.3°E<br>Slowenien, Jugoslawien<br>WIEN: in Österreich $I_{max} = 5^{\circ}$ MSK<br>$F_3$ i.Ö. = 4175 km <sup>2</sup> |
| 16  | VKA e(Pg)<br>eSg                                                                   | 13 32 05<br>32 36                                                                 |        | LJUBLJANA: Slowenien, Nachbeben                                                                                                                 |
| 16  | VKA ePKIKP<br>eipKP2                                                               | 23 58 13<br>58 45                                                                 |        | USGS: bei den Kermadec-Inseln                                                                                                                   |
| 17  | VKA ei<br>ei<br>ei                                                                 | 06 58 13.9<br>58 39<br>59 03                                                      |        |                                                                                                                                                 |
| 17  | VKA ePg<br>(eSn)<br>eiSg                                                           | 09 44 31<br>44(55)<br>45 04                                                       |        | LJUBLJANA: Slowenien, Nachbeben                                                                                                                 |
| 18  | VKA e<br>eiPb<br>ei<br>ei                                                          | 10 11 07<br>11 20<br>12 08<br>13 05                                               |        | CSEM: Albanien                                                                                                                                  |
| 18  | VKA iP<br>eipP<br>e                                                                | 14 30 35.2 D<br>30 52<br>32 26                                                    |        | USGS: Hindukusch-Gebiet                                                                                                                         |
| 18  | VKA eiPKP<br>ei                                                                    | 18 51 27.7 D<br>51 47                                                             |        | USGS: Tonga-Inseln                                                                                                                              |
| 21  | VKA ePKIKP<br>e(PKHKP)<br>iPKP2<br>iPP<br>VIE iPKIKP<br>i(PKP2)<br>iPP<br>ei(SKSP) | 12 13 12<br>13 28<br>13 45<br>17 22<br>12 13 14 U<br>13 48<br>17 20<br>27 40      | 17350  | USGS: 11 53 22.5 53.9°S, 158.6°E<br>bei den Macquarie-Inseln                                                                                    |

| Tag | Phase                                                             | U T C                                                                                        | D (km) | B e m e r k u n g e n                                              |
|-----|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------|
| 21  | VKA iP<br>i<br>i<br>ei(S)<br>ei<br>VIE iP<br>i<br>i<br>LmV        | 13 58 42.0 C<br>58 51<br>59 01<br>14 09 29<br>10 55<br>13 58 42 U<br>58 50<br>14 09 44<br>45 | 9750   | MLV= 6.9<br>USGS: 13 45 54.0 16.9°N, 122.4°E<br>Luzon, Philippinen |
| 22  | VKA i<br>i                                                        | 13 17 38.7<br>17 54                                                                          |        |                                                                    |
| 22  | VKA eiPKIKP<br>iPKP2<br>e<br>epPPP<br>VIE iPKIKP<br>eipKP2<br>LmV | 17 36 37.3 C<br>38 24 D<br>40 02<br>45 08<br>17 36 38 U<br>37 22 R<br>18 52                  | 17900  | MLV= 6.0<br>USGS: südlich der Kermadec-Inseln                      |
| 23  | VKA eiP<br>ei(pP)<br>e(PP)                                        | 07 05 29.0 D<br>05 43<br>07 19                                                               |        | USGS: Nord- Sinkiang, China                                        |
| 23  | VKA eiP                                                           | 13 56 50.0 C                                                                                 |        | schwach USGS: Alaska                                               |
| 23  | VKA eSg                                                           | 20 17 52                                                                                     |        | COLIM: West-Polen                                                  |
| 24  | VKA eiPKIKP<br>iPKP2<br>VIE iPKIKP<br>e<br>LmV                    | 06 42 29.9 D<br>42 37 D<br>06 42 29 U<br>45 44<br>07 53                                      | 16250  | MLV= 6.4<br>USGS: 06 22 51.3 15.3°S, 173.2°W<br>Tonga-Inseln       |
| 24  | VKA ePn<br>ei<br>ei<br>VIE e(SgSg)<br>LmV                         | 09 57 20<br>58 32<br>59 45<br>09 59 40<br>10 00.4                                            |        | CSEM: Süditalien                                                   |
| 24  | VKA eP<br>ePP                                                     | 20 08 30<br>12 28                                                                            |        | USGS: Marianen h= 409 km                                           |
| 24  | VKA e(P)                                                          | 20 11 38                                                                                     |        | schwach                                                            |
| 25  | VKA (e)P                                                          | 05 04(00)                                                                                    |        | schwach USGS: Karibik                                              |
| 27  | VKA eipKP2<br>eipKP2                                              | 03 14 51.0<br>15 04                                                                          |        | USGS: Tonga-Inseln                                                 |
| 27  | VKA e<br>ei(Sn)<br>eiSb<br>eSgSg                                  | 07 52 46<br>53 06<br>53 25<br>53 50                                                          | 700    | ZÜRICH: Wallis, Schweiz                                            |
| 27  | VKA iP                                                            | 17 38 03.2 C                                                                                 |        | USGS: Luzon, Philippinen                                           |



| Tag | Phase                                                            | U T C                                                                   | D (km) | B e m e r k u n g e n                                                   |
|-----|------------------------------------------------------------------|-------------------------------------------------------------------------|--------|-------------------------------------------------------------------------|
| 27  | VKA e(Pg)<br>e(Sn)<br>eiSg                                       | 19 16 50<br>17 26<br>17 43                                              |        | WIEN: vermutlich Oberschlesien                                          |
| 28  | VIE LmV                                                          | 01 51                                                                   |        |                                                                         |
| 28  | VKA eiP<br>ipP<br>ei<br>VIE ei(P)<br>eiPP<br>(eiS)<br>LmV        | 01 57 08.9 D<br>57 18<br>59 08<br>01 57 12<br>59 16<br>02 05(00)<br>22  | 6200   | MLV= 5.4 USGS: bei Ascensión                                            |
| 28  | VKA e(Sg)                                                        | 15 02 34                                                                |        | COLLM: Pg 15 00 41.5                                                    |
| 28  | VKA eiP<br>VIE LmV                                               | 15 34 46.2 C<br>16 13                                                   |        | MLV= 5.5 USGS: bei Oregon, USA                                          |
| 28  | VKA e<br>ei<br>i<br>ei                                           | 17 08 20<br>08 33<br>08 37<br>08 41                                     |        | MOLLN: Pg 17 08 34                                                      |
| 28  | VKA e<br>ei                                                      | 20 11 55<br>12 08                                                       |        | Nahbeben, auch in PRU und GRF                                           |
| 29  | VKA eiP                                                          | 00 12 48.0 D                                                            |        | schwach USGS: Ryukyu-Inseln                                             |
| 29  | VKA (ei)P<br>ePP                                                 | 09 22(00)<br>23 42                                                      |        | USGS: Süd-Sinkiang, China h= 102 km                                     |
| 29  | VKA i                                                            | 10 06 34.0                                                              |        |                                                                         |
| 29  | VKA eiPKIKP<br>eipPP<br>ei<br>VIE iPKIKP<br>i(PP)<br>iSPP<br>LmV | 11 34 49.2 C<br>36 58<br>48 04<br>11 34 51 U<br>36 56<br>48 19<br>12 30 | 14100  | MPPV= 7.1 MLV= 7.4<br>USGS: 11 15 45.3 8.0°S, 155.5°E<br>Salomon-Inseln |
| 29  | VKA eiPKHKP<br>eiPKP2                                            | 17 10 42.6<br>10 48                                                     |        | USGS: Tonga-Inseln h= 129 km                                            |
| 29  | VKA e(Pn)<br>ei                                                  | 18 22 32<br>24 21                                                       | 600    | WIEN: Mitteljugoslawien                                                 |
| 29  | VKA iPn<br>iPg<br>iSn<br>i<br>VIE e<br>iSn                       | 21 55 43.4 D<br>55 59 D<br>56 23<br>56 49<br>21 55 46<br>56 24          | 370    | CSEM: 21 54 50.2 45.0°N, 17.5°E<br>bei Banja Luka, Jugoslawien          |
| 29  | VKA eiP                                                          | 22 36 18.8 D                                                            |        | USGS: Luzon, Philippinen                                                |

| Tag | Phase                  | U T C                      | D (km) | B e m e r k u n g e n                 |
|-----|------------------------|----------------------------|--------|---------------------------------------|
| 30  | VKA eP                 | 02 04 34                   |        | USGS: Nukleartest Semipalatinsk, USSR |
| 30  | VKA eP<br>e<br>VIE LmV | 07 40 52<br>42 50<br>08 05 |        | MLV= 4.9 USGS: bei Ascensión          |
| 30  | VKA eP                 | 19 54 29                   |        | CSEM: Peloponnes, Griechenland        |
| 31  | VKA ePKP               | 03 01 16                   |        | USGS: südlich der Fidschi-Inseln      |
| 31  | VKA eP                 | 05 31 16                   |        | auch in KAŠPERSKÉ HORY und MOXA       |

W i e n , 6. Juli 1978

J. D r i m m e l  
E. F i e g w e i l



VKA, VIE

Seismische Aufzeichnungen in Wien

1977 - 08

- A u g u s t 1 9 7 7 -

| Tag | Phase                                              | U T C                                                    | D (km) | B e m e r k u n g e n               |
|-----|----------------------------------------------------|----------------------------------------------------------|--------|-------------------------------------|
| 01  | VKA eipPKP2<br>VIE ImV                             | 10 40 54.3<br>11 43                                      |        | USGS: bei den Loyalty-Inseln        |
| 01  | VKA iPKP<br>eipPKP<br>VIE eiPKP<br>eipPKP          | 13 52 14.1 D<br>52 42<br>13 52 14 R<br>52 44             | 16100  | USGS: Neue Hebriden h= 108 km       |
| 01  | VKA eiPKP2<br>VIE ePKP2                            | 19 30 40.5<br>19 30 41                                   |        | USGS: Raum Fidschi-Inseln h= 599 km |
| 02  | VKA eiPKIKP                                        | 00 34 37.4 D                                             |        | USGS: Raum Fidschi-Inseln h= 552 km |
| 02  | VKA (e)<br>i<br>ei                                 | 16 26(00)<br>26 06<br>26 17                              |        | schwach                             |
| 04  | VKA ePP                                            | 01 30 14                                                 |        | USGS: Süd-Sandwich-Inseln h= 112 km |
| 04  | VKA eP<br>VIE ImV                                  | 13 33 48<br>14 10                                        |        | MLV= 5.2 USGS: bei Nicaragua        |
| 04  | VKA eiP                                            | 16 52 38.0                                               |        | USGS: Nukleartest Nevada, USA       |
| 04  | VKA eiP                                            | 22 33 49.8 C                                             |        | CSEM: Vrancea, Rumänien h= 137 km   |
| 04  | VKA e<br>eiSg                                      | 23 58 16<br>58 25                                        |        | schwach WIEN: Friaul                |
| 05  | VKA e<br>ei<br>i<br>ei<br>ImV                      | 16 06 56.5<br>07 03<br>07 09<br>07 27<br>07.8            |        | Nahbeben, auch in BRATISLAVA        |
| 06  | VKA iPKIKP                                         | 11 45 08.7                                               |        | USGS: Salomon-Inseln h= 83 km       |
| 06  | VKA ePn<br>ei                                      | 11 55 03.5<br>55 59                                      |        | USGS: Serbien, Jugoslawien          |
| 06  | VKA eiPKHKP                                        | 12 12 37.7                                               |        | schwach USGS: Tonga-Inseln          |
| 07  | VKA ePKIKP<br>eiPKS<br>ei<br>VIE eiPP<br>ei<br>ImV | 02 04 28<br>08 04<br>08 17<br>02 07 12<br>08 17<br>03 02 |        | MLV= 5.3 USGS: Santa-Cruz-Inseln    |



| Tag | Phase                                                                    | U T C                                                                        | D (km) | B e m e r k u n g e n                                                                                      |
|-----|--------------------------------------------------------------------------|------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------|
| 07  | VKA ePKIKP                                                               | 02 14 15.5                                                                   |        | schwach USGS: Santa-Cruz-Inseln                                                                            |
| 07  | VKA eP<br>ei<br>VIE eP<br>ImV                                            | 07 21 03<br>21 25<br>07 21 04<br>55                                          |        | MLV= 5.9<br>USGS: Grenze Panama-Costa Rica                                                                 |
| 07  | VKA eiP                                                                  | 11 44 46.7 D                                                                 |        | schwach USGS: Carlsberg-Rücken                                                                             |
| 07  | VKA eSg                                                                  | 13 29 08                                                                     |        | WIEN: nordwestlich von Arzl, <sup>2</sup><br>Tirol, $I_0 = 4.5^0$ MS F= 400 km                             |
| 08  | VKA iPg<br>iSg<br>ImV<br>VIE ei<br>ImV                                   | 03 11 17.7 D<br>11 28.0<br>11.6<br>03 11 33.5<br>11.6                        | 85     | WIEN: 03 11 02 $47.6^0$ N, $15.75^0$ E<br>bei Spital am Semmering, Steiermark<br>$I_0 = 5^0$ MS F= 1040 km |
| 08  | VKA eiP                                                                  | 07 12 53.3 C                                                                 |        | USGS: bei der Westküste von Kolumbien                                                                      |
| 08  | VKA e<br>VIE ImV                                                         | 13 18 30<br>14 18                                                            |        | MLV= 5.7 USGS: Salomon-Inseln                                                                              |
| 08  | VKA iPKP2                                                                | 15 24 28.5                                                                   |        | USGS: Raum Fidschi-Inseln h= 562 km                                                                        |
| 08  | VKA eP<br>eipP                                                           | 23 37 26<br>37 57                                                            |        | USGS: Nord-Sumatra h= 112 km                                                                               |
| 09  | VKA eiP<br>eiPcP                                                         | 21 49 41.9 D<br>52 22                                                        |        | CSEM: Nordost-Iran                                                                                         |
| 10  | VKA ei<br>iPP                                                            | 07 24 42.0<br>24 51                                                          |        | schwach USGS: Java                                                                                         |
| 10  | VKA eiP                                                                  | 09 47 39.0 D                                                                 |        | USGS: bei der Kodiak-Insel                                                                                 |
| 10  | VKA i<br>VIE ei                                                          | 15 32 39.2<br>15 32 39                                                       |        | PRUHONICE: P 15 33 23.0                                                                                    |
| 10  | VKA eiPKIKP<br>iPKHKP<br>VIE ePKIKP<br>epPKIKP                           | 18 45 50.3 C<br>45 56<br>18 45 50<br>48 10                                   |        | USGS: Raum Fidschi-Inseln h= 585 km                                                                        |
| 11  | VKA ePKIKP<br>i<br>iPKHKP<br>ePKP2<br>VIE i(PKIKP)<br>i<br>e(PKS)<br>ImV | 02 02 24.5<br>02 26<br>02 29<br>02 32<br>02 02 26<br>03 00<br>06 39<br>03 10 | 16450  | MLV= 6.1<br>USGS: 01 42 47.5 $17.6^0$ S, $174.4^0$ W<br>Tonga-Inseln                                       |
| 11  | VKA e                                                                    | 16 40 03                                                                     |        | MOLLN: Pg 16 39 59                                                                                         |
| 12  | VKA eiPKIKP<br>VIE ImV                                                   | 00 26 49.3 D<br>01 20                                                        |        | MLV= 5.3 USGS: Salomon-Inseln                                                                              |

| Tag | Phase                                                       | U T C                                                                                       | D (km) | B e m e r k u n g e n                                                 |
|-----|-------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------|
| 12  | VKA eiPg                                                    | 11 16 06.8                                                                                  |        | WIEN: Mähren, ČSSR                                                    |
| 12  | VKA ePKIKP                                                  | 22 04 34                                                                                    |        | USGS: Raum Papua-Neuguinea                                            |
| 13  | VKA e                                                       | 17 29 48                                                                                    |        | MOXA: P 17 30 41                                                      |
| 14  | VKA eP<br>eipP                                              | 04 34 17<br>34 48                                                                           |        | USGS: Windward-Inseln h= 112km                                        |
| 14  | VKA eiP<br>VIE ImV                                          | 15 15 25.5 D<br>19 49                                                                       |        | MLV= 5.3 USGS: Südatlantik-Rücken                                     |
| 14  | VKA eiP<br>VIE eP                                           | 19 16 02.3 C<br>19 16 02                                                                    |        | USGS: Südatlantik-Rücken                                              |
| 14  | VKA eP<br>ei<br>ei<br>VIE eP<br>e<br>ImV                    | 21 52 19<br>56 05<br>57 12<br>21 52 19<br>56 04<br>22 44                                    |        | MLV= 5.5 USGS: Java                                                   |
| 15  | VKA eP<br>eipP<br>VIE ImV                                   | 00 01 04.5<br>01 15<br>00 41                                                                |        | MLV= 5.1 USGS: Japanisches Meer                                       |
| 15  | VKA (ei)PKIKP<br>eiPKHKP                                    | 06 01(00)<br>01 08                                                                          |        | USGS: Raum Tonga-Inseln                                               |
| 15  | VKA eiP                                                     | 16 53 53.0 C                                                                                |        | USGS: Süd-Sumatra h= 88 km                                            |
| 15  | VKA eiP<br>eipP                                             | 20 37 07.0 C<br>37 14                                                                       |        | USGS: bei der Küste von Mittelamerika                                 |
| 15  | VKA eP<br>i<br>i<br>ei<br>i<br>VIE e<br>i<br>e<br>iS<br>ImV | 21 12 48<br>12 53<br>13 29<br>14 20<br>15 13<br>21 13 08<br>13 47<br>14 22<br>14 36<br>16.7 | 1050   | MLV= 4.2<br>CSEM: 21 10 34.8 $38.8^0$ N, $17.0^0$ E<br>Ionisches Meer |
| 16  | VKA ei                                                      | 14 51 14.4                                                                                  |        | schwach auch in COLIM                                                 |
| 16  | VKA ei                                                      | 20 19 44.7                                                                                  |        | KASPERSKÉ HORY: 20 20 01.6                                            |
| 16  | VKA eiP                                                     | 23 30 14.7 C                                                                                |        | USGS: Golf von Aden                                                   |
| 17  | VKA ei<br>ImV                                               | 00 42 45.5<br>43.3                                                                          |        | WIEN: Friaul                                                          |



| Tag | Phase                                                                               | U T C                                                                                                                | D (km) | B e m e r k u n g e n                                                         |
|-----|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------|
| 17  | VKA ePKIKP<br>eiPKHKP<br>eiPKP2<br>VIE ePKHKP                                       | 03 27 14<br>27 18<br>27 26<br>03 27 18                                                                               |        | USGS: Raum Tonga-Inseln                                                       |
| 17  | VKA eP                                                                              | 04 34 32.5                                                                                                           |        | USGS: Nukleartest Semipalatinsk, USSR                                         |
| 17  | VKA eiP                                                                             | 16 35 22.0 C                                                                                                         |        | schwach CSEM: Nordost-Iran                                                    |
| 17  | VIE ImV                                                                             | 17 32                                                                                                                |        | schwach USGS: Aleuten                                                         |
| 18  | VKA i                                                                               | 06 48 43.3 D                                                                                                         |        | schwach                                                                       |
| 18  | VKA iP<br>iPPP<br>(i)<br>VIE iP<br>eSSS<br>ImV                                      | 09 30 56.0 D<br>31 16<br>34(00)<br>09 30 56.5 R<br>34 04<br>37.6                                                     | 1560   | MLV= 5.4<br>CSEM: 09 27 42.2 35.2°N, 23.4°E<br>südwestliches Kreta            |
| 18  | VKA eiP<br>ipP<br>ei<br>VIE iP<br>ei<br>ImV                                         | 12 11 40.0 C<br>11 51<br>14 23<br>12 11 40.5 U<br>14 22<br>53                                                        | 8900   | MPV= 6.1 MLV= 5.8<br>USGS: 11 59 41.2 46.6°N, 153.7°E<br>Kurilen              |
| 18  | VKA eiP<br>isP                                                                      | 13 08 56.0 C<br>09 12                                                                                                |        | USGS: bei den Aleuten                                                         |
| 18  | VKA e(Pg)<br>ei<br>iSg<br>i<br>i<br>Im<br>VIE ImV                                   | 17 14 56.3<br>14 59<br>15 04<br>15 09<br>15 11<br>15.8<br>17 16.1                                                    | 70     | WIEN: Kleine Karpaten, CSSR<br>BRATISLAVA: Sprengung von 11 t                 |
| 19  | VKA ei<br>iSn<br>i(SgSg)<br>Im                                                      | 04 18 51.2<br>19 55<br>20 43<br>20.95                                                                                |        | CSEM: Mittelitalien                                                           |
| 19  | VKA eiPP                                                                            | 05 27 16.9                                                                                                           |        | USGS: südlich von Sumbawa                                                     |
| 19  | VKA eiP<br>eipP<br>isP<br>i<br>i<br>iPP<br>VIE iP<br>ipP<br>i<br>iPP<br>ipPP<br>ImV | 06 23 07.7 D<br>23 23<br>23 28<br>23 44<br>26 31<br>27 30<br>06 23 08 R<br>23 22<br>26 33<br>27 30<br>27 43<br>07 21 | 11800  | MPV= 8.2 MPPV= 8.4<br>USGS: 06 08 55.2 11.1°S, 118.5°E<br>südlich von Sumbawa |

| Tag | Phase                                                 | U T C                                                               | D (km) | B e m e r k u n g e n                                           |
|-----|-------------------------------------------------------|---------------------------------------------------------------------|--------|-----------------------------------------------------------------|
| 19  | VKA eiPP                                              | 07 02 07.0                                                          |        | USGS: südlich von Sumbawa                                       |
| 19  | VKA eiPP<br>VIE ei(PP)<br>ImV                         | 13 42 15.1<br>13 42 17<br>14 32                                     |        | MLV= 5.8 USGS: bei Sumba                                        |
| 19  | VKA ei<br>VIE ei                                      | 16 47 01.7<br>16 47 02                                              |        | schwach                                                         |
| 19  | VKA eiP<br>VIE eP                                     | 18 07 37.3 C<br>18 07 37                                            |        | USGS: Nukleartest Nevada, USA                                   |
| 19  | VKA ei(PKIKP)<br>eiPP<br>VIE ePP<br>ImV               | 19 57 26.5<br>57 37<br>19 57 37.5<br>20 47                          |        | MLV= 5.2 USGS: bei Sumba                                        |
| 19  | VKA e(PKIKP)<br>eiPP<br>VIE ImV                       | 21 53 22<br>53 39<br>22 44                                          |        | MLV= 5.2 USGS: bei Sumba                                        |
| 20  | VKA eiP<br>eipP<br>eiPP<br>VIE eipP<br>ImV            | 02 58 52.7 C<br>58 57<br>03 02 18<br>02 58 57<br>03 31              |        | MPV= 5.9 MLV= 5.7<br>USGS: Karibik                              |
| 20  | VKA eiP<br>eipP<br>i<br>VIE eP<br>ei<br>e(SKS)<br>ImV | 04 04 34.1 D<br>04 46<br>05 11<br>04 04 34 R<br>05 14<br>15.0<br>51 | 9550   | MPV= 6.4 MLV= 5.8<br>USGS: 03 51 54.7 16.7°N, 86.6°W<br>Karibik |
| 20  | VKA ePP                                               | 04 17 17                                                            |        | USGS: bei Sumba                                                 |
| 20  | VKA eiPP<br>VIE ImV                                   | 04 39 04.2<br>05 10                                                 |        | MLV= 5.5 USGS: bei Sumbawa                                      |
| 20  | VKA eiPKIKP<br>ei(PP)<br>VIE eipPP<br>ImV             | 09 40 12.9 C<br>40 33<br>09 40 40<br>10 29                          |        | MLV= 5.9 USGS: bei Sumba                                        |
| 20  | VKA ei<br>eiPP<br>VIE e<br>eiPP<br>e<br>ImV           | 19 34 20.0<br>35 11<br>19 34 23<br>35 11<br>43 36<br>20 24          |        | MPV= 6.9 MLV= 6.3<br>USGS: südlich von Sumba                    |
| 20  | VKA iP                                                | 22 08 20.9                                                          |        | USGS: Nukleartest Mittelsibirien, USSR                          |
| 21  | VKA eiPKP<br>VIE ePKP2                                | 05 04 09.3<br>05 04 13                                              |        | USGS: Raum Samoa-Inseln                                         |



| Tag | Phase                                                    | U T C                                                               | D (km) | B e m e r k u n g e n            |
|-----|----------------------------------------------------------|---------------------------------------------------------------------|--------|----------------------------------|
| 21  | VKA eiP<br>eiPP<br>VIE (i)P<br>ImV                       | 05 31 58.5 C<br>35 11<br>05 32(01)<br>06 12                         |        | MLV= 5.1 USGS: bei Honshu, Japan |
| 21  | VKA eiPP                                                 | 07 09 08.0                                                          |        | USGS: südlich von Sumbawa        |
| 21  | VKA eiPP                                                 | 15 55 27.0                                                          |        | USGS: südlich von Sumba          |
| 21  | VKA eiPKP2                                               | 19 55 33.6                                                          |        | USGS: Kermadec-Inseln            |
| 23  | VKA eiPKP2                                               | 08 27 28.0                                                          |        | USGS: südlich der Fidschi-Inseln |
| 23  | VKA ei                                                   | 09 06 16.0                                                          |        | schwach auch in PRUHONICE        |
| 23  | VKA e<br>eiPP<br>VIE eiPP                                | 10 42 44.5<br>42 51<br>10 42 50                                     |        | USGS: südlich von Sumbawa        |
| 23  | VKA eiPP                                                 | 23 24 47.8                                                          |        | USGS: südlich von Sumbawa        |
| 24  | VKA eiP<br>VIE eiP<br>ImV                                | 03 57 20.0 D<br>03 57 20 R<br>04 39                                 |        | MLV= 5.0 USGS: Ryukyu-Inseln     |
| 24  | VKA ei                                                   | 10 24 20.0                                                          |        | USGS: beim Baikal-See, USSR      |
| 24  | VKA ei(Pn)<br>iPg<br>i<br>iSg<br>Im<br>VIE ImV           | 12 01 01.3<br>01 10 C<br>01 46<br>01 49<br>01.9<br>12 01.9          |        | MLV= 3.2 CSEM: Friaul            |
| 24  | VKA ei<br>ei<br>ei<br>ei<br>(Im)                         | 23 34 11.0<br>34 27<br>34 35<br>34 48<br>34.9                       |        | PRUHONICE: Pg 23 33 58.5         |
| 25  | VKA e(PKP)                                               | 16 40 13                                                            |        | auch in COLIM u.a.               |
| 25  | VKA ei(Sn)<br>eSgSg                                      | 18 06 31.0<br>07 13                                                 |        | CSEM: Mittelitalien              |
| 25  | VKA ei<br>eiPKIKP<br>i<br>ePKKP<br>VIE ePP<br>eSP<br>ImV | 18 21 34.4<br>23 33<br>27 45<br>35 11<br>18 23 48<br>32 55<br>19 17 |        | MLV= 6.1 USGS: bei Sumba         |

| Tag | Phase                                                                                         | U T C                                                                                                      | D (km) | B e m e r k u n g e n                                                                    |
|-----|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------|
| 25  | VKA ePn<br>i<br>iPgPg<br>iSn<br>i<br>VIE ei                                                   | 19 35 01<br>35 05<br>35 35<br>36 11<br>36 39<br>19 37 16                                                   |        | CSEM: Mittelitalien                                                                      |
| 25  | VKA ePn<br>i<br>eiSn<br>ei(SgSg)                                                              | 20 44 40.5<br>44 44<br>45 48<br>46 38                                                                      |        | CSEM: Mittelitalien                                                                      |
| 26  | VKA ei<br>eiPP<br>VIE ei(PP)<br>ImV                                                           | 08 44 34.0<br>45 13<br>08 45 18<br>09 39                                                                   |        | MLV= 5.8 USGS: bei Sumba                                                                 |
| 26  | VKA e(Pdif)<br>ei<br>e(PKIKP)<br>i<br>iPP<br>eiSPP<br>VIE e<br>ei<br>ei<br>iPP<br>eiPS<br>ImV | 20 04 45<br>08 04<br>08 39<br>09 10<br>09 16<br>19 53<br>20 04.8<br>08 26<br>09 09<br>09 17<br>18 48<br>56 | 12400  | MPPV= 7.0 MLV= 6.9<br>USGS: 19 50 01.4 59.4°S, 20.5°W<br>südwestlicher Atlantik          |
| 27  | VKA e(Pdif)<br>ei<br>iPP<br>i<br>eiPKKP<br>VIE eP<br>ei<br>i(PP)<br>eiPS<br>ImV               | 07 26 48<br>31 05<br>31 18<br>31 25<br>42 06<br>07 26 42<br>31 03<br>31 21<br>40 40<br>08 25               | 12050  | MPPV= 7.3 MLV= 6.9<br>USGS: 07 12 22.5 8.1°S, 125.3°E<br>Timor                           |
| 27  | VKA eSn                                                                                       | 17 40 20                                                                                                   |        | USGS: Mittelitalien                                                                      |
| 28  | VKA eiP<br>eiPP<br>iSS<br>Im<br>VIE eiP<br>iPPP<br>eiSS<br>ImV                                | 09 48 04.0 D<br>48 13<br>50 33<br>52.2<br>09 48 05 R<br>48 20<br>50 33<br>53.7                             | 1300   | MLV= 5.0 CSEM: 09 45 16.1<br>38.1°N, 8.1°E Mittelmeer<br>zwischen Algerien und Sardinien |
| 28  | VKA ePKIKP<br>eipPKP2<br>VIE ePKIKP<br>eipPKP2<br>ImV                                         | 14 31 22<br>32 12<br>14 31 22<br>32 12<br>15 40                                                            |        | MLV= 5.4 USGS: Kermadec-Inseln                                                           |



| Tag | Phase                                                                      | U T C                                                                                        | D (km) | B e m e r k u n g e n                                                                  |
|-----|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------|
| 28  | VKA e<br>VIE LmV                                                           | 20 30 33<br>21 27                                                                            |        | MLV= 5.5 USGS: Admiralitätsinseln                                                      |
| 28  | VKA eiP                                                                    | 23 57 30.5 D                                                                                 |        | CSEM: Laristan, Iran                                                                   |
| 29  | VKA iP<br>eiPP<br>eSKS<br>VIE iP<br>iPP<br>eSKS<br>eiPS<br>LmV             | 14 36 22.2 C<br>39 42<br>46 50<br>14 36 22 U<br>39 42<br>46 51<br>47 54<br>15 20             | 9550   | MPV= 6.9 MPPV= 6.7 MLV= 6.5<br>USGS: 14 23 40.5 17.4°N, 119.9°E<br>bei den Philippinen |
| 29  | VKA eiP<br>ei(P)<br>VIE P<br>LmV                                           | 21 12 08.8 C<br>12 22<br>21 12 08 U<br>56                                                    |        | MLV= 5.3 USGS: Aleuten                                                                 |
| 30  | VIE LmV                                                                    | 14 54                                                                                        |        | schwach                                                                                |
| 30  | VKA eiP<br>VIE LmV                                                         | 15 24 36.0 C<br>16 06                                                                        |        | schwach USGS: Aleuten                                                                  |
| 31  | VKA eiP<br>i<br>ePP<br>eiSKKS<br>ePKPPKP<br>VIE eiP<br>ei(P)<br>eiS<br>LmV | 00 54 45.5 D<br>55 04<br>58 12<br>01 05 12<br>20 56<br>00 54 46 R<br>58 14<br>01 05 16<br>37 | 9600   | MPV= 6.5 MPPV= 6.4 MLV= 6.2<br>USGS: 00 42 05.4 7.3°N, 76.3°W<br>Nord-Kolumbien        |
| 31  | VKA e(P)                                                                   | 01 31 09                                                                                     |        | USGS: Nord-Kolumbien h= 95 km                                                          |
| 31  | VKA eiPKP2                                                                 | 05 50 22.6                                                                                   |        | USGS: Raum Kermadec-Inseln h= 117 km                                                   |
| 31  | VKA ei(P)<br>eiPgPg<br>ei<br>Lm<br>VIE LmV                                 | 08 24 53.4<br>25 52<br>27 18<br>29.6<br>08 29.8                                              |        | MLV= 4.6 CSEM: Peloponnes                                                              |
| 31  | VKA ePn<br>eSn                                                             | 17 45 36<br>46 10                                                                            | 315    | USGS: Oberschlesien, Polen                                                             |
| 31  | VKA ePKP2                                                                  | 23 24 05                                                                                     |        | USGS: Raum Kermadec-Inseln                                                             |

Wien, 28. September 1978

J. Drimmel  
E. Fiegweil

- September 1977 -

| Tag | Phase                                                                            | U T C                                                                                 | D (km) | B e m e r k u n g e n                                                                             |
|-----|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------|
| 01  | VKA e                                                                            | 00 26 39                                                                              |        | auch in COLIM und MOXA                                                                            |
| 01  | VKA eiPg<br>eiSg                                                                 | 01 28 37.0 D<br>29 10                                                                 | 270    | LJUBLJANA: Slowenien, Jugoslawien                                                                 |
| 01  | VKA iP<br>iPP<br>eiS<br>VIE eiP<br>eiPP<br>LmR                                   | 03 06 12.5 C<br>07 13<br>11 15<br>03 06 13 U<br>07 12<br>21                           | 3350   | MPV= 5.5 MPPV= 5.6 MLV= 4.7<br>CSEM: 02 59 59.4 73.5°N, 54.6°E<br>Nukleartest Nowaja Semlja, USSR |
| 01  | VKA e(P)                                                                         | 17 49 51                                                                              |        | schwach USGS: Nord-Kolumbien                                                                      |
| 02  | VKA (ei)P<br>i                                                                   | 05 54(00)<br>54 02                                                                    | 9200   | USGS: Ryukyu-Inseln h= 97 km                                                                      |
| 02  | VKA e<br>e<br>ei<br>VIE ei<br>eSP<br>LmV                                         | 10 53 40<br>53 52<br>55 05<br>10 55 07<br>11 04 22<br>43                              |        | MLV= 5.8 USGS: bei Sumba                                                                          |
| 02  | VKA ePn<br>i<br>i<br>VIE e<br>iSg                                                | 22 48 24<br>49 16<br>49 43<br>22 49 44<br>49 50                                       | 530    | CSEM: 22 47 13.7 48.0°N, 9.2°E<br>Oberschwaben, BRD                                               |
| 03  | VKA e<br>ei                                                                      | 12 08 54<br>09 14                                                                     |        | BRATISLAVA: (P) 12 09 01.3                                                                        |
| 03  | VKA ePKP<br>ei                                                                   | 12 15 59<br>16 14                                                                     |        | USGS: Tonga-Inseln                                                                                |
| 03  | VKA e(P)                                                                         | 15 45 27                                                                              |        | USGS: Raum Dominikanische Republik                                                                |
| 03  | VIE LmV                                                                          | 23 20                                                                                 |        | MLV= 5.2 USGS: bei Nicaragua                                                                      |
| 04  | VKA (ei)PKIKP<br>i(P)<br>eiSKP<br>e<br>VIE ePKHKP<br>(i)PKIKP<br>iPP<br>e<br>LmV | 09 08(00)<br>10 52<br>11 37<br>20 24<br>09 07 52<br>08(00)<br>10 49<br>23 12<br>10 08 | 15300  | MPPV=MLV= 6.7<br>USGS: 08 48 39.2 13.7°S, 166.7°E<br>Neue Hebriden                                |



| Tag | Phase                                            | U T C                                                            | D (km) | B e m e r k u n g e n                                                                                            |
|-----|--------------------------------------------------|------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------|
| 04  | VKA eiP<br>VIE iP<br>eiPP<br>e<br>ImV            | 15 53 03.6 C<br>15 53 04 U<br>56 06<br>16 03 24<br>33            | 8800   | MPV= 6.4 MLV= 6.5<br>USGS: Aleuten                                                                               |
| 04  | VKA eiP                                          | 16 52 22.8 C                                                     | 9400   | USGS: bei Honshu, Japan                                                                                          |
| 04  | VKA eiP<br>VIE eiP                               | 17 22 36.3 C<br>17 22 37 U                                       |        | MPV= 6.4 USGS: Aleuten                                                                                           |
| 04  | VKA eiP<br>i<br>VIE eiP<br>ImV                   | 17 36 52.0 C<br>36 57<br>17 36 52 U<br>18 22                     | 8800   | MPV= 6.8 MLV= 6.9<br>USGS: 17 24 42.8 51.1°N, 178.0°E<br>Aleuten                                                 |
| 04  | VKA eP                                           | 18 37 54                                                         |        | schwach USGS: Aleuten                                                                                            |
| 04  | VKA eP                                           | 18 50 29                                                         |        | schwach USGS: Aleuten                                                                                            |
| 04  | VKA eP                                           | 19 35 06                                                         |        | schwach USGS: Aleuten                                                                                            |
| 04  | VKA eiP<br>VIE ei(P)<br>ImV                      | 23 32 48.4 C<br>23 32 51<br>24 16                                |        | USGS: Aleuten                                                                                                    |
| 05  | VKA eiP<br>eiPn<br>VIE eP                        | 03 10 35.7 C<br>12 05<br>03 10 36                                | 4400   | USGS: 03 02 57.8 50.1°N, 79.0°E<br>Nukleartest Semipalatinsk                                                     |
| 05  | VKA iPP<br>ipPP                                  | 11 35 34.0<br>35 44                                              |        | schwach USGS: bei Sumbawa                                                                                        |
| 06  | VKA eiPKIKP<br>ei(pPP)<br>VIE ImV                | 04 52 35.3 D<br>55 16<br>05 48                                   |        | MLV= 5.5 USGS: Salomon-Inseln                                                                                    |
| 06  | VKA eiPKIKP<br>VIE ImV                           | 09 11 17.2 D<br>10 06                                            |        | MLV= 5.5 USGS: Papua-Neuguinea                                                                                   |
| 06  | VKA i(PKHKP)                                     | 17 56 07.1                                                       |        | USGS: Raum Fidschi-Inseln h=583 km                                                                               |
| 06  | VKA eiPKHKP<br>eiPKP2                            | 23 20 10.8<br>20 23                                              |        | USGS: Raum Fidschi-Inseln h=593 km                                                                               |
| 08  | VKA ei(PKHKP)                                    | 03 19 10.0                                                       |        | USGS: Raum Fidschi-Inseln h= 505 km                                                                              |
| 08  | VKA iPg<br>iSg<br>ImV<br>VIE ePg<br>e(Sg)<br>ImV | 10 05 35.7 D<br>05 45.2<br>05 52<br>10 05 36 R<br>05 47<br>05 56 | 70     | WIEN: 10 05 22 47.7°N, 15.9°E<br>Weissenbach bei Gloggnitz, N.Ö.<br>I <sub>0</sub> = 5°MS F= 612 km <sup>2</sup> |
| 09  | VKA eiP<br>VIE (ei)                              | 02 45 37.4 D<br>02 46(00)                                        |        | USGS: Grenze Sibirien-Mandschurei<br>h= 499 km                                                                   |

| Tag | Phase                                                   | U T C                                                                | D (km) | B e m e r k u n g e n                                                       |
|-----|---------------------------------------------------------|----------------------------------------------------------------------|--------|-----------------------------------------------------------------------------|
| 09  | VKA ei(Pg)<br>i<br>i(Sg)<br>Im                          | 09 06 05.8<br>06 34<br>06 40<br>06.7                                 |        | PRU: Bergschlag bei Kladno, ČSSR                                            |
| 09  | VKA eiSg<br>ImV                                         | 09 24 27.5<br>24.7                                                   |        | schwach WIEN: Friaul                                                        |
| 09  | VKA ei(PKP)                                             | 17 57 05.0                                                           |        | USGS: Raum Fidschi-Inseln h= 561 km                                         |
| 10  | VKA ei(Pg)<br>i(Sg)<br>Im<br>VIE (ImV)                  | 00 55 26.0<br>56 02<br>56.15<br>00 56.3                              |        | LJUBLJANA: bei Zagreb, Jugoslawien                                          |
| 10  | VKA eP<br>eiPP<br>VIE e<br>ImV                          | 06 35 01<br>35 11<br>06 35 08<br>42                                  |        | MLV= 4.9 CSEM: Kréta                                                        |
| 10  | VKA ei(PKP)                                             | 09 43 43.0                                                           |        | USGS: Tonga-Inseln h= 240 km                                                |
| 10  | VKA eP<br>ei<br>VIE ImV                                 | 10 34 04<br>34 20<br>11 13                                           |        | USGS: bei der Küste von Guatemala                                           |
| 10  | VKA eiP<br>ei(pP)<br>eiPP                               | 13 52 15.2 D<br>52 51<br>56 07                                       |        | USGS: Java h= 105 km                                                        |
| 10  | VKA e<br>ei                                             | 18 09 30.5<br>09 41                                                  |        | auch in KHC und GRF                                                         |
| 10  | VKA e(Pg)<br>eiSg                                       | 20 47 55<br>48 32                                                    |        | schwach WIEN: Friaul                                                        |
| 11  | VKA ePKIKP<br>eiPKHKP<br>ei<br>VIE eiPKHKP<br>ei<br>ImV | 14 27 44<br>27 45<br>32 09<br>14 27 46<br>32 32<br>15 42             | 16250  | MPPV= 6.1 MLV= 5.8<br>USGS: Tonga-Inseln                                    |
| 11  | VKA e(Pg)<br>i<br>(Im)                                  | 20 41 27<br>42 14<br>42.65                                           |        | auch in PRU und KHC                                                         |
| 11  | VKA eiP<br>i<br>i(S)<br>VIE eiP<br>iPP<br>i(S)<br>ImV   | 23 22 41.0 C<br>22 51<br>25 27<br>23 22 41 U<br>22 53<br>25 26<br>30 | 1600   | MPV= 6.0 MLV= 6.1<br>CSEM: 23 19 23.5 34.9°N, 23.0°E<br>südwestliches Kréta |
| 12  | VKA eP<br>VIE ImV                                       | 03 01 15.5<br>03 08                                                  |        | MLV= 4.0 CSEM: Kréta                                                        |



| Tag | Phase                                                       | U T C                                                          | D (km) | B e m e r k u n g e n                                     |
|-----|-------------------------------------------------------------|----------------------------------------------------------------|--------|-----------------------------------------------------------|
| 12  | VKA eiP<br>VIE (eP)<br>eiPP<br>ImV                          | 14 28 58.3<br>14 29(01)<br>31 32<br>57                         |        | MPV= 5.8 MLV= 5.3<br>USGS: Südatlantik-Rücken             |
| 12  | VKA eiP<br>e<br>eiS                                         | 22 23 38.3 D<br>25 55<br>26 03                                 |        | schwach CSEM: Pyrenäen                                    |
| 12  | VKA ei(PKP)<br>ei<br>ei<br>VIE ImV                          | 22 27 22.3<br>28 10<br>29 04<br>23 43                          |        | MLV= 5.5 auch in PRU und CLL                              |
| 12  | VKA eiP                                                     | 23 28 41.3 C                                                   |        | USGS: östliches japanisches Meer                          |
| 13  | VKA eP                                                      | 00 23 16                                                       |        | CSEM: Laristan, Iran                                      |
| 13  | VKA eiPKP<br>eipPKP<br>eipPP<br>VIE eiPKP<br>i(pPKP)<br>ImV | 00 41 31.5 C<br>41 43<br>45 09<br>00 41 32 U<br>41 45<br>01 52 | 16250  | MLV= 6.2 USGS: 00 21 52.6<br>15.5°S, 173.3°W Tonga-Inseln |
| 13  | VKA eiP<br>VIE (ImV)                                        | 02 00 13.0 C<br>02 40                                          |        | auch in KASPERSKÉ HORY                                    |
| 13  | VKA eiPKIKP<br>ei                                           | 04 19 24.2<br>19 31                                            |        | USGS: Tonga-Inseln                                        |
| 13  | VKA ei(P)<br>VIE ImV                                        | 13 07 37.7<br>13 14                                            |        | schwach CSEM: Kreta                                       |
| 14  | VKA ei<br>eiPgPg<br>iSgSg                                   | 08 52 22.8<br>52 32<br>53 47                                   | 625    | TITOGRAD: bei Sjenica, Serbien                            |
| 14  | VKA eiPn<br>i<br>iPg<br>iSg<br>VIE ImV                      | 13 39 05.2 C<br>39 13<br>39 16<br>39 53<br>13 40.1             |        | CSEM: Friaul                                              |
| 14  | VKA e                                                       | 15 33 39                                                       |        | schwach                                                   |
| 14  | VIE ImV                                                     | 15 48                                                          |        | MLV= 5.6 USGS: Raum Süd-Sandwich-Inseln                   |
| 14  | VKA ei(P)<br>iPP<br>VIE ImV                                 | 18 52 25.7<br>52 36<br>18 59                                   |        | schwach CSEM: Kreta                                       |
| 15  | VKA ei                                                      | 15 57 07.3                                                     |        | schwach CSEM: Kreta                                       |

| Tag | Phase                                                                     | U T C                                                                      | D (km) | B e m e r k u n g e n                                                                                                        |
|-----|---------------------------------------------------------------------------|----------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------|
| 16  | VKA iPn<br>i(Sn)<br>iSg<br>VIE iPn<br>ImV                                 | 23 48 56.9 C<br>49 35<br>49 47<br>23 48 57.5 U<br>50.1                     | 335    | CSEM: 23 48 09.4 46.2°N, 13.05°E<br>Friaul, Oberitalien WIEN: $I_{max}^{I.Ö.}$<br>= 5° MS $F_4$ i.Ö. = 25000 km <sup>2</sup> |
| 17  | VKA e(Pn)<br>ePg<br>ei<br>iSg<br>VIE ei                                   | 00 32 01.5<br>32 11<br>32 34<br>32 52<br>00 32 57                          |        | CSEM: Friaul                                                                                                                 |
| 17  | VKA ei(Pn)<br>ePg<br>eiSg                                                 | 05 19 26.0<br>19 34<br>20 14                                               |        | schwach USGS: Friaul                                                                                                         |
| 17  | VKA eP<br>epP<br>ei(PKIKP)<br>ei(PP)<br>VIE ei(P)<br>eiPP<br>e(PS)<br>ImV | 05 37 29<br>37 42<br>41 46<br>41 52<br>05 37 31<br>41 50<br>51 02<br>06 31 |        | MPPV= 6.3 MLV= 6.2<br>USGS: bei den Marianen                                                                                 |
| 17  | VKA ei(Pg)<br>iSg<br>Im                                                   | 09 00 48.9<br>01 19<br>01 34                                               |        | COLIM: Sprengung, ČSSR                                                                                                       |
| 17  | VKA ei<br>ei                                                              | 10 59 26.8<br>59 35                                                        |        | schwach                                                                                                                      |
| 17  | VKA eiPn<br>iPg<br>i(Sn)<br>iSg<br>VIE ei<br>ei(Sg)<br>ImV                | 23 17 40.4 C<br>17 50<br>18 17<br>18 29<br>23 18 21<br>18 31<br>18.7       |        | MLV= 3.9 CSEM: Friaul                                                                                                        |
| 18  | VKA ei                                                                    | 07 02 54.7                                                                 |        | schwach                                                                                                                      |
| 18  | VKA e<br>eiPg<br>iSn<br>eiSb<br>iSg<br>Im<br>VIE ImV                      | 07 03 14.5<br>03 17<br>03 41<br>03 50<br>03 57<br>04.1<br>07 04.15         |        | MLV= 3.2 CSEM: Friaul                                                                                                        |
| 18  | VKA ei<br>ei(Pg)<br>ei<br>eiSg                                            | 09 59 12.2<br>59 21<br>59 39<br>59 58                                      |        | CSEM: Friaul                                                                                                                 |



| Tag | Phase                                                      | U T C                                                              | D (km) | B e m e r k u n g e n                 |
|-----|------------------------------------------------------------|--------------------------------------------------------------------|--------|---------------------------------------|
| 18  | VKA e(Pn)<br>eiPg<br>eiSg                                  | 21 39 41<br>39 50<br>40 32                                         |        | schwach CSEM: Friaul                  |
| 19  | VKA e(Pn)<br>eiPg<br>iSn<br>iSg<br>VIE ImV                 | 00 01 14<br>01 31<br>02 03<br>02 28<br>00 02.7                     |        | MLV= 3.6 CSEM: Oberschwaben, BRD      |
| 19  | VKA eiP                                                    | 00 29 36.9 D                                                       |        | CSEM: Farsistan, Iran                 |
| 19  | VKA ei(PKP)<br>ei(PP)<br>VIE ei(PP)<br>e<br>ei(PSP)<br>ImV | 05 31 33.5<br>31 43<br>05 31 44<br>40 32<br>41 50<br>06 17         |        | MPPV= 6.4 MLV= 5.7<br>USGS: Ceram-See |
| 19  | VKA eiP                                                    | 05 45 39.7 D                                                       |        | schwach USGS: Kurilen                 |
| 19  | VKA eiPKP<br>ipPKP                                         | 13 09 22.0 D<br>09 29                                              |        | USGS: Fidschi-Inseln                  |
| 19  | VKA ePKIKP<br>eiPKP2                                       | 14 37 25<br>37 56                                                  |        | USGS: Raum Kermadec-Inseln h= 206km   |
| 19  | VKA ei<br>iSg                                              | 16 43 33.2<br>43 42                                                |        | auch in MOLLN und MOXA                |
| 19  | VKA ei(Sg)                                                 | 19 58 04.8                                                         |        | schwach CSEM: Friaul                  |
| 20  | VKA ei(P)                                                  | 02 12 01.1                                                         |        | schwach USGS: Kurilen                 |
| 20  | VKA e(Pn)<br>eiPb<br>ei<br>eiSg                            | 20 23 01<br>23 11<br>23 20<br>24 31                                |        | CSEM: Bosnien-Herzegowina             |
| 20  | VKA ei(Pn)<br>i<br>iSn<br>i<br>iSg<br>VIE ei<br>ImV        | 20 29 38.1<br>29 59<br>30 37<br>31 07<br>31 12<br>20 30 09<br>31.6 |        | MLV= 3.3<br>CSEM: Bosnien-Herzegowina |
| 21  | VKA eiP                                                    | 03 24 16.3 C                                                       |        | USGS: Insel Sachalin, USSR            |
| 21  | VKA e(P)<br>VIE e<br>ImV                                   | 17 51 02<br>17 51 42<br>18 28                                      |        | USGS: bei Kamtschatka                 |

| Tag | Phase                                                                   | U T C                                                                                  | D (km) | B e m e r k u n g e n                                  |
|-----|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------|--------------------------------------------------------|
| 21  | VKA iP<br>ipP<br>i(PP)<br>VIE eiP<br>ipP<br>e(PS)<br>e                  | 21 12 57.8 D<br>13 57<br>15 50<br>21 12 58 R<br>13 57<br>23 26<br>32 44                |        | USGS: Raum Kurilen h= 231 km                           |
| 22  | VKA ei(Sg)                                                              | 07 53 10.5                                                                             |        | CSEM: Friaul                                           |
| 23  | VKA ePn<br>i<br>iSn<br>iSgSg<br>Im<br>VIE e(Pb)<br>i<br>ei(SgSg)<br>ImR | 02 59 50.5<br>03 00 23<br>01 12<br>02 04<br>02.8<br>03 00 09<br>00 30<br>02 07<br>03.1 | 810    | MLV= 4.7 CSEM: 02 58 01.3<br>41.5° N, 20.2° E Albanien |
| 23  | VKA eiPP<br>VIE eiPP<br>ImV                                             | 06 16 28.8<br>06 16 29<br>07 10                                                        |        | MPPV= 6.7 USGS: bei Sumbawa                            |
| 23  | VKA eiSg                                                                | 15 15 23.0                                                                             |        | TRIESTE: Friaul                                        |
| 23  | VKA eiPKIKP<br>eiPP                                                     | 21 03 50.9 D<br>04 29                                                                  |        | USGS: Banda-See h= 309 km                              |
| 24  | VKA ei<br>ei(Sg)<br>Im                                                  | 00 51 05.3<br>51 31<br>51.6                                                            |        | WIEN: Friaul                                           |
| 24  | VKA eP                                                                  | 20 46 28.5                                                                             |        | schwach CSEM: Kreta                                    |
| 25  | VKA ei(Pn)<br>iPg<br>i<br>eiSg<br>ImV                                   | 08 26 09.7<br>26 26<br>27 12<br>27 23<br>27.9                                          | 480    | WIEN: Jugoslawien                                      |
| 25  | VKA ei(PKHKP)<br>eiPKP2                                                 | 16 33 51.8<br>34 03                                                                    |        | USGS: Raum Fidschi-Inseln h= 606 km                    |
| 25  | VKA ePP                                                                 | 18 50 10                                                                               |        | USGS: bei Sumbawa                                      |
| 25  | VKA eiP                                                                 | 20 57 44.8 C                                                                           |        | auch in KASPERSKÉ HORY u.a.                            |
| 26  | VKA e(PKP)<br>e(PP)<br>VIE ImV                                          | 05 16 54<br>20 36<br>06 35                                                             |        | MLV= 5.8 USGS: Raum Macquarie-Insel                    |
| 26  | VKA ei(Sg)                                                              | 15 13 05.8                                                                             |        | MOLLN: Sg 15 13 19                                     |
| 27  | VKA eiPKIKP                                                             | 17 41 53.5                                                                             |        | schwach USGS: Tonga-Inseln                             |



| Tag | Phase                                                           | U T C                                                                             | D (km) | B e m e r k u n g e n               |
|-----|-----------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-------------------------------------|
| 28  | VKA eiPn<br>iPg<br>i(Sn)<br>iSg<br>VIE eiPg<br>ei<br>iSg<br>LmV | 01 44 03.7 D<br>44 12 D<br>44 37<br>44 50<br>01 44 12 R<br>44 41<br>44 50<br>45.1 |        | MLV= 4.0 CSEM: Friaul               |
| 28  | VKA eiPg<br>i<br>ei(Sg)<br>LmV<br>VIE Spuren                    | 01 57 35.5<br>57 39<br>58 16<br>58.4<br>01 58.4                                   |        | CSEM: Friaul                        |
| 28  | VKA eiPKIKP                                                     | 12 31 57.2 D                                                                      |        | schwach CSEM: Tonga-Inseln          |
| 28  | VKA iSg                                                         | 13 35 20.8                                                                        |        | TRIESTE: Friaul                     |
| 28  | VKA eiPg<br>ei<br>iSg<br>LmV                                    | 13 41 06.2<br>41 27<br>41 44<br>41.9                                              |        | USGS: Friaul                        |
| 29  | VKA eiPP                                                        | 02 35 24.0                                                                        |        | USGS: bei Sumbawa                   |
| 29  | VKA i(Sg)                                                       | 06 20 52.3                                                                        |        | TRIESTE: Friaul                     |
| 29  | VKA ei<br>ei<br>i                                               | 13 00 15.1<br>00 33<br>00 39                                                      |        | MOLLN: Pg 13 00 32.5                |
| 29  | VKA eiPKP2                                                      | 18 51 17.5                                                                        |        | USGS: Raum Tonga-Inseln             |
| 30  | VKA eiP<br>VIE LmV                                              | 07 04 45.4 D<br>07 56                                                             |        | MLV= 4.4 CSEM: Kaspisches Meer      |
| 30  | VKA eiPKP2                                                      | 11 57 28.0                                                                        |        | schwach USGS: Tonga-Inseln          |
| 30  | VKA e(P)<br>ei                                                  | 16 44 15<br>44 18                                                                 |        | CSEM: Tyrrhenisches Meer            |
| 30  | VKA e                                                           | 16 55 45                                                                          |        | CSEM: Grenze Iran-USSR              |
| 30  | VKA ei(P)                                                       | 19 24 54.5                                                                        |        | USGS: Grenze Tadschikistan-Sinkiang |
| 30  | VKA eiPKIKP<br>eiPKP2<br>VIE i(PKIKP)<br>LmV                    | 21 42 37.5 D<br>42 43<br>21 42 39<br>22 44                                        |        | USGS: Raum Samoa-Inseln             |

W i e n , 29. September 1978

J. D r i m m e l  
E. F i e g w e i l

- O k t o b e r 1977 -

| Tag | Phase                                                        | U T C                                                                         | D (km) | B e m e r k u n g e n                                               |
|-----|--------------------------------------------------------------|-------------------------------------------------------------------------------|--------|---------------------------------------------------------------------|
| 01  | VKA eiSn<br>iSg<br>Lm                                        | 13 08 11.2<br>08 22<br>08.4                                                   |        | COLIM: West-Polen                                                   |
| 01  | VKA eiP                                                      | 13 17 36.0 C                                                                  |        | USGS: Raum Nikobaren h= 114 km                                      |
| 02  | VKA ei(Sg)<br>LmV                                            | 11 51 35.7<br>51.8                                                            |        | TRIESTE: Friaul                                                     |
| 02  | VKA e<br>ei<br>VIE LmV                                       | 13 16 10.5<br>20 26<br>14 00                                                  |        | MLV= 5.8 USGS: Philippinen                                          |
| 03  | VKA ei                                                       | 02 08 26.7                                                                    |        | BÜHLERHÖHE: Pn 02 06 06.5                                           |
| 03  | VIE LmV                                                      | 05 14                                                                         |        | MLV= 4.8 USGS: Nordatlantik                                         |
| 03  | VIE LmV                                                      | 06 29                                                                         |        | MLV= 5.4 USGS: Loyalty-Inseln                                       |
| 03  | VKA eiPKP                                                    | 12 39 58.4 C                                                                  |        | USGS: Loyalty-Inseln                                                |
| 03  | VKA ei                                                       | 16 29 34.5                                                                    |        | CSEM: Griechenland-Albanien                                         |
| 03  | VKA ei(PKP2)<br>VIE LmV                                      | 19 56 17.7<br>21 28                                                           |        | USGS: Raum Kermadec-Inseln                                          |
| 03  | VKA eiP<br>e                                                 | 22 57 27.0 D<br>23 00 35                                                      |        | USGS: Nord-Sumatra                                                  |
| 04  | VKA ei(Sg)                                                   | 11 40 47.0                                                                    |        | schwach                                                             |
| 04  | VKA ei(P)                                                    | 13 56 32.8                                                                    |        | USGS: bei Venezuela                                                 |
| 04  | VKA ei                                                       | 15 51 22.9                                                                    |        | USGS: Honshu, Japan                                                 |
| 05  | VKA eiP<br>iPP<br>ei<br>ei(SS)<br>VIE eP<br>iPP<br>ei<br>LmV | 05 38 05.2 C<br>38 18<br>41 06<br>41 14<br>05 38 05<br>38 18<br>41 03<br>46.1 | 1600   | MLV= 5.7<br>CSEM: 05 34 46.0 41.0°N, 33.5°E<br>nordwestliche Türkei |
| 05  | VKA eiPKHKP<br>iPKP2<br>ipPKP<br>VIE eiPKP2<br>eipPKP        | 14 34 03.0 D<br>34 08.0 D<br>36 22<br>14 34 08 R<br>36 21                     |        | USGS: Raum Fidschi-Inseln h= 573 km                                 |



| Tag | Phase                                                        | U T C                                                                 | D (km) | B e m e r k u n g e n                                                              |
|-----|--------------------------------------------------------------|-----------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|
| 05  | VKA e<br>eiPP<br>ei                                          | 19 09 39<br>09 45<br>09 53                                            |        | USGS: bei Sumbawa                                                                  |
| 06  | VKA e<br>ei(Sg)                                              | 11 35 20<br>35 39                                                     |        | auch in BRATISLAVA u.a.                                                            |
| 06  | VKA eiSg                                                     | 13 20 28.9                                                            |        | GRF: Schwäbische Alb, BRD                                                          |
| 07  | VKA ePKIKP<br>ei<br>VIE LmV                                  | 05 03 58<br>04 03<br>05 55                                            |        | MLV= 5.5 USGS: bei Sumbawa                                                         |
| 07  | VKA ei(P)<br>eiPP<br>ei(PPP)<br>VIE eiPP<br>ei<br>LmV        | 12 24 54.8<br>29 09<br>31 28<br>12 29 09<br>33 25<br>13 20            |        | MLV= 6.1 USGS: bei Sumbawa                                                         |
| 07  | VKA eiPP<br>VIE LmV                                          | 17 19 35.0<br>18 13                                                   |        | MLV= 5.5 USGS: bei Sumbawa                                                         |
| 07  | VKA ei<br>VIE e<br>LmV                                       | 17 55 34.0<br>18 19 24<br>48                                          |        | MLV= 5.4 USGS: bei Sumbawa                                                         |
| 07  | VKA eiPP<br>VIE LmV                                          | 21 54 33.8<br>22 47                                                   |        | MLV= 5.3 USGS: bei Sumbawa                                                         |
| 08  | VKA eiP<br>ipP                                               | 03 17 13.1 D<br>17 47                                                 |        | USGS: Peru h= 129 km                                                               |
| 08  | VKA (ei)P<br>eiPP<br>ei<br>VIE e(P)<br>eiPP<br>LmV           | 21 20(00)<br>23 39<br>23 46<br>21 20 02<br>23 39<br>22 02             |        | MLV=5.6 USGS: Luzon, Philippinen                                                   |
| 09  | VKA ePP                                                      | 11 07 11                                                              |        | CSEM: Nukleartest Nowaja Semlja, USSR                                              |
| 10  | VKA ei<br>ei<br>iSgSg<br>iSgSgSg<br>VIE Spuren               | 06 11 33.4<br>12 15<br>12 34<br>12 42<br>06 12.75                     |        | CSEM: Insel Oléron, Frankreich                                                     |
| 10  | VKA eiPKIKP<br>i<br>ei<br>iPP<br>VIE eiPKIKP<br>i(PP)<br>LmV | 12 13 45.0 D<br>13 54<br>17 48<br>17 51<br>12 13 45<br>17 48<br>13 30 | 17300  | MPPV= 7.2 MLV= 7.3<br>USGS: 11 53 53.6 25.9°S, 175.4°W<br>südlich der Tonga-Inseln |

| Tag | Phase                                                       | U T C                                                                      | D (km) | B e m e r k u n g e n               |
|-----|-------------------------------------------------------------|----------------------------------------------------------------------------|--------|-------------------------------------|
| 10  | VKA ei                                                      | 13 22 12.6                                                                 |        | auch in MOXA und BRATISLAVA         |
| 10  | VKA eiPKIKP<br>(ei)PKP2                                     | 13 28 34.0 C<br>29(00)                                                     |        | USGS: südlich der Tonga-Inseln      |
| 10  | VKA ei(Pg)<br>iSn<br>eiSg                                   | 15 06 08.3<br>06 30<br>06 42                                               |        | COLIM: Bergschlag Oberschlesien     |
| 11  | VKA ei<br>i<br>ei(Sg)                                       | 15 38 31.0<br>38 51<br>39 05                                               |        | MOLLN: Pg 15 38 59                  |
| 11  | VKA eiSn<br>i(Sb)<br>ei<br>iSg                              | 19 10 53.7<br>11 09<br>11 16<br>11 22                                      |        | COLIM: bei Sangerhausen, DDR        |
| 12  | VKA ei<br>eiPP                                              | 01 40 47.0<br>40 54                                                        |        | schwach USGS: bei Sumba             |
| 13  | VKA ePKP2<br>eipPKP2                                        | 00 59 20<br>59 33                                                          |        | USGS: bei der Macquarie-Insel       |
| 13  | VKA ePKIKP<br>iPKHKP                                        | 01 04 32<br>04 36                                                          |        | USGS: Raum Fidschi-Inseln h= 596 km |
| 13  | VKA iP                                                      | 07 09 06.0 D                                                               |        | USGS: bei den Nikobaren             |
| 13  | VKA ei(PKP2)                                                | 09 22 11.0                                                                 |        | USGS: Raum Fidschi-Inseln h= 225 km |
| 13  | VKA ipP                                                     | 11 42 57.1                                                                 |        | USGS: Grenze Burma-Indien           |
| 13  | VKA i(Sg)                                                   | 15 09 18.2                                                                 |        | WIEN: Kleine Karpaten, CSSR         |
| 13  | VKA eiP<br>VIE eiP                                          | 21 30 36.0 C<br>21 30 36 U                                                 |        | USGS: bei den Nikobaren             |
| 14  | VKA eiPKP<br>VIE eiPKP<br>LmV                               | 05 15 13.5 C<br>05 15 14 U<br>06 17                                        |        | MLV= 5.8 USGS: Tonga-Inseln         |
| 14  | VKA eiPKP2                                                  | 11 11 40.8                                                                 |        | USGS: Tonga-Inseln h= 250 km        |
| 14  | VKA eiPKIKP                                                 | 12 48 28.4 C                                                               |        | USGS: Neue Hebriden h= 125 km       |
| 14  | VKA ei(Pn)<br>ei(Pb)<br>iPg<br>i<br>i<br>i<br>Lm<br>VIE LmV | 20 12 44.7<br>12 52<br>12 55<br>13 24<br>13 30<br>13 38<br>13.7<br>20 13.7 |        | CSEM: Friaul                        |



| Tag | Phase                                                                                            | U T C                                                                                              | D (km) | B e m e r k u n g e n                                                             |
|-----|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|
| 14  | VKA e(Sn)<br>eiSg                                                                                | 20 41 19<br>41 33                                                                                  |        | TRIESTE: Friaul                                                                   |
| 16  | VKA eiP<br>ipP<br>VIE eiP<br>ImV                                                                 | 02 11 33.6 C<br>11 45<br>02 11 34 U<br>51                                                          |        | MPV= 6.1 MLV= 5.8<br>USGS: Kurilen                                                |
| 16  | VKA eiP<br>i<br>VIE eP<br>ei<br>ImV                                                              | 03 19 11.7 C<br>19 18<br>03 19 12 U<br>19 17<br>50                                                 |        | MLV= 5.1 USGS: Südatlantik-Rücken                                                 |
| 16  | VKA e<br>eiPKP2<br>VIE e(PKHKP)<br>ImV                                                           | 13 34 07.5<br>34 40<br>13 34 20<br>14 53                                                           |        | MLV= 5.7 USGS: Raum Kermadec-Inseln                                               |
| 16  | VKA e<br>ePKIKP<br>VIE ImV                                                                       | 21 26 50<br>27 31<br>22 18                                                                         |        | MLV= 5.9 USGS: bei Sumbawa                                                        |
| 17  | VKA eiPKIKP<br>eiPKHKP<br>iPKP2<br>iPP<br>i(pPP)<br>VIE eiPKIKP<br>iPKHKP<br>iPKP2<br>iPP<br>ImV | 17 46 28.2 C<br>46 36<br>46 49<br>50 18<br>50 32<br>17 46 28 U<br>46 37<br>46 48<br>50 18<br>18 51 | 17000  | MPPV= 6.7 MLV= 6.9<br>USGS: 17 26 40.4 27.9°S, 173.1°E<br>nördlich von Neuseeland |
| 18  | VKA eiP                                                                                          | 09 42 37.2                                                                                         |        | CSEM: südwestlich von Portugal                                                    |
| 18  | VKA ei<br>i<br>Im                                                                                | 15 32.20.0<br>32 57<br>32.5                                                                        |        | schwach Nahbeben                                                                  |
| 18  | VKA eP<br>i                                                                                      | 20 34 14<br>34 20.4 C                                                                              |        | USGS: bei den Kurilen                                                             |
| 18  | VKA ePKP<br>ei<br>eipPKP2                                                                        | 23 43 15<br>43 18<br>45 41                                                                         |        | USGS: Raum Fidschi-Inseln h= 603 km                                               |
| 19  | VKA eiPKHKP<br>iPKP2<br>VIE ImV                                                                  | 02 41 33.0<br>41 46<br>03 53                                                                       |        | MLV= 5.4 USGS: Tonga-Inseln                                                       |
| 19  | VKA eiP<br>i<br>VIE ImV                                                                          | 06 42 11.1 C<br>42 52<br>07 01                                                                     |        | MLV= 5.3 CSEM: Süd-Iran                                                           |

| Tag | Phase                                 | U T C                                                 | D (km) | B e m e r k u n g e n                  |
|-----|---------------------------------------|-------------------------------------------------------|--------|----------------------------------------|
| 19  | VKA ePKHKP<br>ei<br>epPKP             | 08 01 39<br>01 42<br>02 43                            |        | USGS: Tonga-Inseln h= 259 km           |
| 19  | VKA ei<br>i                           | 10 17 58.4<br>18 11                                   |        | schwach                                |
| 19  | VKA eP<br>VIE ImV                     | 17 38 40<br>18 04                                     |        | MLV= 4.8 USGS: Sinkiang, China         |
| 19  | VKA eiP<br>VIE eP                     | 21 32 27.0 C<br>21 32 28                              |        | schwach USGS: Kurilen                  |
| 19  | VKA iP<br>VIE iP                      | 22 51 44.0 D<br>22 51 44 R                            |        | MPV= 5.3<br>USGS: bei Taiwan h= 158 km |
| 20  | VKA eiP<br>i<br>ipP<br>VIE eiP<br>ImV | 05 52 02.0 C<br>52 05<br>52 16<br>05 52 02 U<br>06 33 |        | MPV= 5.9 MLV= 5.8<br>USGS: Kurilen     |
| 20  | VKA ei(P)<br>VIE ImV                  | 08 29 31.0<br>09 03                                   |        | MLV= 5.1 USGS: Kommandeur-Inseln       |
| 20  | VKA e(P)                              | 11 26 17                                              |        | schwach USGS: Kurilen                  |
| 20  | VKA ei<br>i<br>VIE Spuren             | 15 32 54.2<br>33 03<br>15 33.1                        |        | Nahbeben auch in PRU u.a.              |
| 21  | VIE ImV                               | 01 06                                                 |        | schwach                                |
| 21  | VKA eiP                               | 01 12 46.0 D                                          |        | USGS: Kyushu, Japan                    |
| 21  | VKA eiPg<br>eiSg<br>i<br>Im           | 15 00 44.4 C<br>01 15<br>01 17<br>01.3                | 250    | COLIM: Sprengung, ČSSR                 |
| 22  | VKA epP                               | 01 36 23                                              |        | USGS: Nord-Kolumbien h= 169 km         |
| 22  | VKA eiSg                              | 07 00 52.0                                            |        | COLIM: Sprengung, ČSSR                 |
| 22  | VKA i<br>i<br>i                       | 09 00 20.1<br>00 25<br>00 37                          |        | MOLLN: (Pg) 09 00 40.5                 |
| 22  | VKA eiSn<br>eSg                       | 09 35 47.0<br>36 05                                   |        | WIEN: West-Polen                       |
| 22  | VKA eP<br>ipP<br>ei<br>VIE ei<br>ImV  | 10 05 25<br>05 33<br>06 16<br>10 05 41<br>12.4        |        | MLV= 4.8 CSEM: Kreta                   |



| Tag | Phase                                                                                                        | U T C                                                                                                            | D (km) | B e m e r k u n g e n                                                 |
|-----|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------|
| 22  | VKA ei(P)<br>ei<br>eipP<br>eisP<br>iPKIKP<br>i(PP)<br>eiSS<br>VIE eP<br>ei(pP)<br>ePKIKP<br>i(PP)<br>ei(pPP) | 18 10 16.0<br>12 07<br>12 33<br>13 32<br>14 23<br>14 38<br>28 40<br>18 10 14<br>12 36<br>14 24<br>14 39<br>16 36 | 11550  | MPPV= 6.4<br>USGS: 17 57 17.4 28.0°S, 63.0°W<br>Argentinien h= 614 km |
| 23  | VKA eiPKHKP                                                                                                  | 03 04 48.5                                                                                                       |        | USGS: Raum Fidschi-Inseln h= 592 km                                   |
| 23  | VKA eiPKIKP<br>iPKP2<br>ipPKP2<br>VIE ePKIKP<br>iPKP2<br>eipPKIKP<br>LmV                                     | 10 51 23.3 D<br>51 26 C<br>51 52<br>10 51 24 R<br>51 26<br>51 49<br>11 52                                        | 16250  | USGS: 10 31 53.1 21.5°S, 170.3°E<br>Raum Loyalty-Inseln h= 89 km      |
| 24  | VKA eiP<br>VIE LmV                                                                                           | 06 04 36.6 C<br>06 17                                                                                            |        | MLV= 4.7 CSEM: Nordatlantik-Rücken                                    |
| 24  | VKA eiSg                                                                                                     | 16 56 17.8                                                                                                       |        | WIEN: Friaul                                                          |
| 25  | VKA ei<br>ePKIKP                                                                                             | 07 08 31.0<br>09 03                                                                                              |        | USGS: bei Sumbawa                                                     |
| 25  | VKA eipP                                                                                                     | 18 24 04.8                                                                                                       |        | USGS: bei den Philippinen                                             |
| 26  | VKA eiPKP<br>i<br>VIE LmV                                                                                    | 02 40 12.5 C<br>40 21<br>03 47                                                                                   |        | USGS: Raum Fidschi-Inseln                                             |
| 26  | VKA ePKP<br>eiPKP2<br>VIE ePKP2<br>eipPKP<br>LmV                                                             | 11 39 50<br>39 52<br>11 39 52<br>40 03<br>12 46                                                                  |        | USGS: Raum Fidschi-Inseln                                             |
| 26  | VKA eiP<br>VIE eiP<br>LmV                                                                                    | 15 23 04.7<br>15 23 06 R<br>16 06                                                                                |        | MLV= 5.1 USGS: Aleuten                                                |
| 27  | VKA eiP<br>eiPcP                                                                                             | 00 28 48.0 C<br>31 37                                                                                            |        | CSEM: Mittel-Iran h= 78 km                                            |
| 27  | VKA eP<br>i<br>i(PP)<br>VIE i<br>LmV                                                                         | 07 03 03.5 D<br>03 09<br>03 18<br>07 03 09<br>10.7                                                               |        | MLV= 4.6 CSEM: bei Karpathos                                          |

| Tag | Phase                                                          | U T C                                                   | D (km) | B e m e r k u n g e n               |
|-----|----------------------------------------------------------------|---------------------------------------------------------|--------|-------------------------------------|
| 27  | VKA eiPKP<br>VIE eiPKP2                                        | 12 25 59.5 D<br>12 26 02.5                              |        | USGS: Raum Fidschi-Inseln           |
| 27  | VKA ei                                                         | 15 10 03.7                                              |        | schwach                             |
| 27  | VKA ei                                                         | 16 56 40.0                                              |        | MOLLN: Pg 16 55 39.5                |
| 27  | VKA eiP<br>ei<br>ei<br>VIE ei(P)<br>LmV                        | 22 46 41.2 D<br>46 44<br>50 51<br>22 46 42<br>52.7      |        | MLV= 5.0 CSEM: westliche Türkei     |
| 28  | VKA ei(Pg)<br>ei(Sg)<br>Lm                                     | 22 02 08.0<br>02 23<br>02.6                             | 150    | WIEN: Weiße Karpaten, ČSSR          |
| 28  | VKA eiPKHKP<br>eiPKP2                                          | 23 33 32.5<br>33 46                                     |        | USGS: Raum Fidschi-Inseln h= 502 km |
| 29  | VKA ePb<br>eiPg<br>eiSn<br>iSg<br>Lm                           | 02 50 05<br>50 09<br>50 31<br>50 40<br>50.8             | 255    | CSEM: Slowenien, Jugoslawien        |
| 29  | VKA eiP1<br>eiP2<br>i(PP2)                                     | 03 14 33.0 C<br>14 41.2 C<br>16 20                      |        | USGS: 2 Nukleartests Semipalatinsk  |
| 29  | VKA ei(PKP)                                                    | 18 46 42.0                                              |        | USGS: Raum Fidschi-Inseln           |
| 29  | VKA ei(PKIKP)<br>eipPKIKP<br>VIE (LmV)                         | 20 34 30.8<br>34 56<br>21 23                            |        | USGS: Papua-Neuguinea h= 106 km     |
| 30  | VKA e(Pn)<br>eiPP<br>iSn                                       | 00 34 44<br>34 51<br>35 58                              |        | schwach CSEM: Albanien              |
| 30  | VKA eiPP                                                       | 02 09 32.3                                              |        | USGS: bei Sumbawa                   |
| 30  | VKA ePKIKP<br>iPKHKP<br>iPKP2<br>eipPKP<br>epPKP2              | 06 44 09<br>44 15<br>44 24<br>46 33<br>46 41            |        | USGS: Raum Fidschi-Inseln h= 600 km |
| 30  | VKA ePKIKP<br>eipPKIKP<br>ei(PP)<br>eipPP<br>eSKP<br>VIE (LmV) | 13 12 39.5<br>13 07<br>15 43<br>16 05<br>16 24<br>14 06 |        | USGS: Neue Hebriden h= 103 km       |



| Tag | Phase                 | U T C                        | D (km) | B e m e r k u n g e n       |
|-----|-----------------------|------------------------------|--------|-----------------------------|
| 30  | VKA eiPKIKP<br>eiPKP2 | 16 45 49.8 C<br>46 20        |        | USGS: Raum Kermadec-Inseln  |
| 30  | VKA ei<br>i<br>ei     | 17 45 33.0<br>45 40<br>45 45 |        | KHC: Pn 17 45 14.7          |
| 31  | VKA eiPKP2<br>epPKP2  | 13 27 21.3<br>27 46          |        | USGS: Tonga-Inseln h= 86 km |
| 31  | VKA ei(Sg)            | 22 08 25.7                   |        | auch in MOLLN               |

W i e n , 3. Oktober 1978 J. D r i m m e l  
E. F i e g w e i l

- N o v e m b e r 1977 -

| Tag | Phase                                                                     | U T C                                                                                            | D (km) | B e m e r k u n g e n                                                   |
|-----|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------|
| 01  | VKA eiPKP2<br>eipPKP2                                                     | 08 45 30.1<br>45 43                                                                              |        | USGS: Raum Tonga-Inseln                                                 |
| 02  | VKA eiPKP<br>VIE eiPKP                                                    | 01 39 08.4 D<br>01 39 08.5 R                                                                     |        | USGS: Tonga-Inseln                                                      |
| 02  | VKA eiPKP2                                                                | 23 55 44.0                                                                                       |        | USGS: Raum Fidschi-Inseln h= 555 km                                     |
| 03  | VKA ei                                                                    | 01 33 19.9                                                                                       |        | Nahbeben auch in COLLN                                                  |
| 03  | VKA eiPn<br>i<br>iPgPg<br>i(Sn)<br>ei<br>i<br>VIE (eiPn)<br>i<br>i<br>ImV | 02 24 57.0 D<br>25 02<br>25 43<br>26 34<br>27 46<br>27 52<br>02 25(00)<br>26 28<br>27 51<br>28.7 | 915    | MLV= 5.5<br>CSEM: 02 22 58.1 42.1°N, 24.1°E<br>bei Velingrad, Bulgarien |
| 03  | VKA ei(Pn)<br>i(Pb)<br>Im                                                 | 09 06 50.3<br>07 07<br>08.9                                                                      |        | CSEM: Kosovo, Jugoslawien                                               |
| 03  | VKA ei                                                                    | 19 51 09.1                                                                                       |        | CSEM: beim Van-See, Türkei                                              |
| 04  | VKA e                                                                     | 08 06 24                                                                                         |        | schwach                                                                 |
| 04  | VKA ePcP<br>ipP<br>esP<br>ei(pPP)<br>VIE epP<br>eipPP<br>e<br>ei<br>ImV   | 10 05 09<br>05 12<br>05 20<br>08 19<br>10 05 12<br>08 16<br>15 30<br>16 19<br>38                 |        | MPV= 6.4 MLV= 6.6<br>USGS: Aleuten                                      |
| 04  | VKA eiSn<br>eSg<br>Im                                                     | 13 05 19.5<br>05 34<br>05.7                                                                      |        | COLLN: Sprengung, CSSR                                                  |
| 04  | VKA ei(Sg)                                                                | 13 57 20.7                                                                                       |        | MOLLN: Pg 13 57 11.5                                                    |
| 04  | VKA eiP<br>VIE eP<br>ImV                                                  | 18 19 38.8 D<br>18 19 38<br>52                                                                   |        | MLV= 5.5 USGS: Aleuten                                                  |



| Tag | Phase                                                           | U T C                                                                                  | D (km) | B e m e r k u n g e n             |
|-----|-----------------------------------------------------------------|----------------------------------------------------------------------------------------|--------|-----------------------------------|
| 04  | VKA ei(P)                                                       | 20 10 24.0                                                                             |        | schwach                           |
| 05  | VKA e<br>eSKP<br>VIE ImV                                        | 06 24 40<br>25 28<br>07 18                                                             |        | MLV= 5.3 USGS: Salomon-Inseln     |
| 05  | VKA e<br>ei                                                     | 06 32 55<br>33 07                                                                      |        | auch in PRÜHONICE u.a.            |
| 05  | VKA ei                                                          | 09 45 12.2                                                                             |        | schwach                           |
| 05  | VKA ei(PcP)<br>VIE e(P)<br>ImV                                  | 14 56 18.4<br>14 56 13<br>15 28                                                        |        | MLV= 5.7 USGS: Aleuten            |
| 05  | VKA e                                                           | 22 58 52.5                                                                             |        | auch in COLLIM u.a.               |
| 06  | VKA eiSb<br>i                                                   | 01 26 10.0<br>26 25                                                                    |        | CSEM: bei Köln, BRD               |
| 06  | VKA ei(Pn)<br>i(Pb)<br>eiSn<br>eSgSg<br>VIE ImV                 | 02 50 48.5<br>51 08<br>52 18<br>53 19<br>02 54.5                                       | 915    | MLV= 3.9 CSEM: Bulgarien          |
| 06  | VKA eP<br>ipP                                                   | 02 51 04<br>51 21                                                                      |        | USGS: bei Kamtschatka             |
| 07  | VKA ei<br>eiPg<br>i<br>i(Sb)<br>iSg<br>Im<br>VIE e<br>ei<br>ImV | 00 24 21.0<br>24 33<br>24 35<br>25 24<br>25 35.5<br>25.75<br>00 25 20<br>25 40<br>25.8 |        | MLV= 4.0 CSEM: Oberschwaben, BRD  |
| 07  | VKA ei<br>e                                                     | 02 01 27.5<br>01 34                                                                    |        | WIEN: Oberschlesien, Polen        |
| 07  | VKA eiP                                                         | 08 31 30.7 C                                                                           |        | schwach USGS: Kurilen             |
| 07  | VKA ePKP                                                        | 13 41 14                                                                               |        | schwach USGS: Tonga-Inseln        |
| 07  | VKA e                                                           | 16 45 39                                                                               |        | schwach Nahbeben                  |
| 07  | VKA eiPKIKP<br>eipPKIKP<br>VIE ImV                              | 23 16 12.5 C<br>16 27<br>24 12                                                         |        | USGS: Salomon-Inseln              |
| 08  | VKA ei(P)<br>VIE eiP<br>ImV                                     | 04 00 32.8<br>04 00 28 R<br>43                                                         |        | MLV= 5.7 USGS: Luzon, Philippinen |

| Tag | Phase                                                                                    | U T C                                                                                                         | D (km) | B e m e r k u n g e n                                                                 |
|-----|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 08  | VKA eiPKHKP                                                                              | 11 57 43.4                                                                                                    |        | USGS: Raum Tonga-Inseln                                                               |
| 08  | VKA iP<br>VIE eiP<br>ImV                                                                 | 15 11 07.0 C<br>15 11 07 U<br>51                                                                              |        | MPV= 5.7 MLV= 5.3<br>USGS: Kurilen                                                    |
| 09  | VKA i(P)                                                                                 | 22 12 38.0                                                                                                    |        | USGS: Nukleartest Nevada, USA                                                         |
| 10  | VKA e<br>ei<br>i                                                                         | 15 31 04<br>31 08<br>31 17                                                                                    |        | auch in PRÜHONICE und MOXA                                                            |
| 11  | VKA ei(P)                                                                                | 15 15 26.3                                                                                                    |        | schwach : auch in HAGFORS                                                             |
| 12  | VKA ei                                                                                   | 12 15 23.7                                                                                                    |        | schwach                                                                               |
| 12  | VKA eiPKIKP<br>iPKHKP<br>iPKP2                                                           | 19 23 36.2 C<br>23 42<br>23 50 C                                                                              |        | USGS: Raum Fidschi-Inseln h= 507 km                                                   |
| 13  | VKA eiP<br>VIE ImV                                                                       | 21 25 22.0 D<br>22 06                                                                                         |        | MLV= 5.5 USGS: Raum Philippinen                                                       |
| 17  | VKA eiPP<br>ei<br>VIE ImV                                                                | 06 30 20.2<br>30 43<br>06 34                                                                                  |        | CSEM: Bulgarien                                                                       |
| 17  | VKA eiP<br>VIE eiP<br>(ImV)                                                              | 17 32 53.3 C<br>17 32 54 R<br>18 12                                                                           |        | USGS: bei Honshu, Japan h= 112 km                                                     |
| 17  | VKA ei(P)                                                                                | 18 03 22.0                                                                                                    |        | schwach                                                                               |
| 18  | VKA eP<br>i<br>i<br>ei(PP)<br>e(S)<br>VIE eiP<br>i<br>ei(PP)<br>ei<br>ei<br>e(SS)<br>ImV | 05 29 42<br>29 43<br>29 50<br>31 51<br>37 23<br>05 29 42 R<br>29 48<br>31 54<br>37 16<br>37 28<br>41 10<br>59 | 6100   | MPV= 6.2 MLV= 6.6<br>USGS: 05 20 11.3 32.7°N, 88.4°E<br>Tibet                         |
| 18  | VKA eiP<br>ipP<br>ei(PP)<br>VIE ei(P)<br>ei(PP)<br>ImV                                   | 10 30 40.9 C<br>30 55<br>34 21<br>10 30 43<br>34 20<br>11 21                                                  |        | MPV= 6.2 MLV= 5.9<br>USGS: Süd-Sumatra                                                |
| 19  | VKA ei(Sn)<br>iSg<br>(Im)                                                                | 08 30 20.2<br>30 29<br>30.6                                                                                   | 270    | WIEN: 08 29 08.5 47.4°N, 12.9°E<br>bei Maria Alm, Salzburg, I <sub>0</sub> = 4.5° MSK |



VKA, VIE

Seismische Aufzeichnungen in Wien

Seite 80  
1977 - 11

| Tag | Phase                                                                                                              | U T C                                                                                                                                          | D (km) | B e m e r k u n g e n                                                                                                  |
|-----|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------|
| 19  | VKA ePb<br>eiPg<br>iSn<br>iSg<br>Im                                                                                | 21 42 37<br>42 42 D<br>43 03<br>43 13.5<br>43.3                                                                                                | 270    | WIEN: 21 41 52.0 47.4°N, 12.95°E<br>Maria Alm-Dienten, Salzburg<br>I <sub>o</sub> = 5 1/4° MSK M <sub>makr</sub> = 3.5 |
| 19  | VKA e<br>eiSg                                                                                                      | 21 52 05<br>52 13                                                                                                                              |        | WIEN: 21 50 54.5<br>Dienten, Salzburg, I <sub>o</sub> = 4.5° MSK                                                       |
| 19  | VKA ePb<br>eiPg<br>iSn<br>iSg<br>Im                                                                                | 23 45 13<br>45 17 C<br>45 38<br>45 47.5<br>45.9                                                                                                | 270    | WIEN: 23 44 26.5 47.4°N, 12.95°E<br>bei Dienten, Salzburg<br>I <sub>o</sub> = 5° + MSK M <sub>makr</sub> = 3.35        |
| 20  | VKA e                                                                                                              | 23 30 51                                                                                                                                       |        | schwach                                                                                                                |
| 21  | VKA e                                                                                                              | 03 11 47                                                                                                                                       |        | schwach                                                                                                                |
| 21  | VIE ImV                                                                                                            | 03 46                                                                                                                                          |        | MLV= 6.0 USGS: Golf von Kalifornien                                                                                    |
| 21  | VKA iPP<br>VIE ei                                                                                                  | 11 56 07.4<br>11 56 14                                                                                                                         |        | USGS: Mindanao h= 601 km                                                                                               |
| 21  | VKA ei(Sg)                                                                                                         | 12 51 11.5                                                                                                                                     |        | auch in PRÜHONICE u.a.                                                                                                 |
| 21  | VKA e<br>ei                                                                                                        | 19 26 37<br>27 29                                                                                                                              |        | schwach                                                                                                                |
| 22  | VKA ei                                                                                                             | 11 18 19.4                                                                                                                                     |        | schwach                                                                                                                |
| 22  | VKA ei(PKIKP)<br>ei(PP)<br>iPKS<br>ei<br>VIE ePKIKP<br>eiPP<br>eiPKS<br>ImV                                        | 16 15 50.0<br>18 13<br>19 08<br>19 48<br>16 15 45<br>18 08<br>19 08<br>17 12                                                                   |        | MPPV= 5.9 MLV= 6.1<br>USGS: Salomon-Inseln h= 92 km                                                                    |
| 23  | VKA ei(P1)<br>i(P2)<br>ei<br>ei<br>iPP<br>iPKKP<br>eiPKPPKP<br>VIE eP1<br>eiP2<br>ei<br>i<br>i<br>i<br>eiSP<br>ImV | 09 40 56.6<br>41 21<br>44 37<br>45 19<br>45 28<br>56 45<br>10 04 47<br>09 40 48<br>41 19<br>44 37<br>45 19<br>45 47<br>52 38<br>54 35<br>10 30 | 12100  | MPV= 7.7 MPPV= 7.8 MLV= 7.6<br>USGS: 09 26 24.7 31.0°S, 67.8°W<br>Provinz San Juan, Argentinien                        |

Seite 81  
1977 - 11

Seismische Aufzeichnungen in Wien

VKA, VIE

| Tag | Phase                                             | U T C                                                             | D (km) | B e m e r k u n g e n               |
|-----|---------------------------------------------------|-------------------------------------------------------------------|--------|-------------------------------------|
| 23  | VKA i                                             | 10 59 15.9                                                        |        |                                     |
| 23  | VKA eiPP<br>VIE ImV                               | 16 54 56.7<br>17 38                                               |        | MLV= 5.6 USGS: Argentinien          |
| 23  | VKA ei(P)                                         | 17 07 24.3                                                        |        | schwach USGS: Aleuten               |
| 24  | VKA ePP1<br>eiPP2<br>i(PP3)<br>VIE e<br>ei<br>ImV | 02 16 24<br>17 25<br>21 32<br>02 17 22<br>17 29<br>03 08          |        | MLV= 5.8 USGS: Argentinien          |
| 24  | VKA (ei)<br>ei                                    | 15 31(00)<br>31 09                                                |        | schwach auch in COLIM               |
| 24  | VKA eiPKHKP<br>iPKP2<br>VIE eiPKP2                | 17 19 43.1<br>19 45<br>17 19 45                                   |        | USGS: beim Tuamotu-Archipel         |
| 24  | VKA iPKP2                                         | 20 30 31.0                                                        |        | USGS: Raum Fidschi-Inseln h= 549 km |
| 26  | VKA eiPKHKP<br>eipPKP                             | 05 40 23.0<br>42 39                                               |        | USGS: Raum Fidschi-Inseln h= 564 km |
| 26  | VKA eiPKP<br>ipPKP2<br>VIE eiPKP<br>eipPKP        | 09 34 16.5 D<br>34 56<br>09 34 16.5<br>34 52                      |        | USGS: Tonga-Inseln h= 133 km        |
| 26  | VKA ei<br>eiSgSg<br>VIE ImV                       | 13 22 34.0<br>25 19<br>13 27.1                                    |        | MLV= 4.0 CSEM: Ionisches Meer       |
| 26  | VKA eipPKP2<br>VIE epPKP2                         | 15 43 43.2<br>15 43 44                                            |        | USGS: Tonga-Inseln                  |
| 26  | VKA ei                                            | 17 13 49.5                                                        |        | schwach                             |
| 26  | VKA eiP                                           | 22 57 53.0 D                                                      |        | USGS: Nordost-China                 |
| 27  | VKA eiP<br>eiPP<br>VIE eP<br>ImV                  | 02 33 07.3 C<br>36 58<br>02 33 07 U<br>03 21                      |        | MLV= 5.9 USGS: Samar, Philippinen   |
| 27  | VKA eP<br>i<br>ei<br>VIE eP<br>ei<br>e<br>ImV     | 08 48 05<br>48 07<br>51 43<br>08 48 05<br>51 30<br>53 04<br>09 27 |        | MPV=MLV= 5.9<br>USGS: Kurilen       |
| 27  | VKA eP                                            | 10 58 52.5                                                        |        | USGS: bei den Aleuten               |



VKA, VIE

Seismische Aufzeichnungen in Wien

Seite 82  
1977 - 11

| Tag | Phase                                                                                 | U T C                                                               | D (km) | B e m e r k u n g e n                                                          |
|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------|--------------------------------------------------------------------------------|
| 27  | VKA eiPKIKP<br>iPKHKP<br>iPKP2<br>eipPKP<br>VIE ei(PKP)                               | 12 58 58.0 C<br>59 04<br>59 12 C<br>13 01 21<br>12 59 02            |        | USGS: Raum Fidschi-Inseln h= 558 km                                            |
| 28  | VKA eiP<br>i<br>VIE eiP<br>ei<br>e(S)<br>ei                                           | 03 02 38.3 C<br>02 43<br>03 02 38 U<br>02 42<br>05 28<br>09 26      | 1650   | MPV= 5.7<br>USGS: 02 59 10.8 36.1°N, 27.8°E<br>Dodekanes h= 85 km              |
| 28  | VKA ei<br>VIE LmV                                                                     | 04 38 28.8<br>05 24                                                 |        | schwach USGS: Argentinien                                                      |
| 28  | VKA ePP<br>VIE LmV                                                                    | 06 50 25<br>07 38                                                   |        | MLV= 5.7 USGS: Argentinien                                                     |
| 28  | VKA i                                                                                 | 14 58 15.0                                                          |        | schwach Nahbeben                                                               |
| 29  | VKA i                                                                                 | 08 19 33.2                                                          |        | KASPERSKÉ HORY: Pn 08 18 53.0                                                  |
| 29  | VKA ei                                                                                | 11 47 34.0                                                          |        | schwach                                                                        |
| 30  | VKA eiPn                                                                              | 00 57 46.8 D                                                        |        | auch in KASPERSKÉ HORY u.a.                                                    |
| 30  | VKA iP<br>eiPn<br>eiPP<br>iPcP<br>VIE eiP                                             | 04 14 36.2 C<br>16 03<br>16 14<br>16 41<br>04 14 36 U               | 4400   | MPV= 5.1<br>USGS: 04 06 57.5 50.0°N, 78.9°E<br>Nukleartest Semipalatinsk, USSR |
| 30  | VKA ei                                                                                | 04 27 31.0                                                          |        | schwach                                                                        |
| 30  | VKA ei(PKIKP)<br>i(PKHKP)<br>iPKP2<br>eipPKP2<br>VIE ei(PKIKP)<br>ei(PKHKP)<br>eiPKP2 | 10 34 27.3<br>34 34<br>34 41<br>36 50<br>10 34 28<br>34 34<br>34 42 |        | USGS: Raum Fidschi-Inseln h= 550 km                                            |

W i e n , 3. Oktober 1978

J. D r i m m e l  
E. F i e g w e i l

Zentralanstalt für Meteorologie und Geodynamik in Wien

VKA, VIE

Seismische Aufzeichnungen in Wien

Seite 83  
1977 - 12

- D e z e m b e r 1 9 7 7 -

| Tag | Phase                                                             | U T C                                                                               | D (km) | B e m e r k u n g e n                                                                 |
|-----|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 01  | VKA eiP                                                           | 21 18 28.0 C                                                                        |        | CSEM: Süd-Iran h= 81 km                                                               |
| 02  | VKA ePKIKP<br>eipPKIKP<br>ei<br>ei<br>VIE LmV                     | 04 32 34<br>32 53<br>42 57<br>46 36<br>05 25                                        |        | USGS: Raum Papua-Neuguinea                                                            |
| 02  | VKA ei                                                            | 06 19 12.0                                                                          |        | schwach                                                                               |
| 02  | VKA eiP<br>VIE eiP<br>LmV                                         | 13 08 50.5 C<br>13 08 51 U<br>46                                                    |        | MPV= 5.9 MLV= 5.2<br>USGS: bei der Ostküste von Kamtschatka                           |
| 03  | VKA ePn<br>eiPb<br>e<br>ei<br>i<br>LmH<br>LmV<br>VIE LmV          | 05 41 33<br>41 53<br>42 12<br>43 50<br>44 17<br>44 50<br>44 57<br>05 45.5           |        | MLV= 3.9 CSEM: Albanien                                                               |
| 03  | VKA eP                                                            | 12 37 03                                                                            |        | schwach USGS: Costa Rica                                                              |
| 03  | VKA eiP<br>i<br>ePP<br>eS<br>VIE eiP<br>ei<br>eiS<br>LmV          | 13 53 30.0 D<br>53 50<br>56 34<br>14 03 33<br>13 53 30 R<br>53 50<br>14 03 33<br>36 | 8950   | MPV= 6.0 MLV= 5.5<br>USGS: 13 41 20.9 3.5°N, 95.9°E<br>bei der Küste von Nord-Sumatra |
| 04  | VKA eiPKIKP<br>eiPKHKP<br>ei(PKP2)<br>VIE e(PKP)<br>eipPKP<br>LmV | 06 10 21.5<br>10 33<br>10 51<br>06 10 25.5<br>10 42<br>07 30                        |        | MLV= 6.0 USGS: Raum Fidschi-Inseln                                                    |
| 04  | VKA ei(P)                                                         | 11 49 54.0                                                                          |        | USGS: Ochotskisches Meer h= 479 km                                                    |
| 04  | VKA ePKIKP<br>eiPKHKP<br>eiPKP2                                   | 14 42 34.5<br>42 39<br>42 43                                                        |        | USGS: Raum Fidschi-Inseln h= 272 km                                                   |
| 05  | VKA (i)Pg<br>i(Sg)<br>Lm                                          | 11 01(00)<br>01 21<br>01.8                                                          | 150    | MOLLN: Pg 11 01 14                                                                    |



| Tag | Phase                                                          | U T C                                                                | D (km) | B e m e r k u n g e n                                                |
|-----|----------------------------------------------------------------|----------------------------------------------------------------------|--------|----------------------------------------------------------------------|
| 05  | VKA eiPKIKP<br>ePKP2<br>VIE ePKIKP<br>LmV                      | 14 33 41.0 D<br>34 05<br>14 33 40<br>15 56                           |        | MLV= 5.7 USGS: Raum Fidschi-Inseln                                   |
| 05  | VKA ePP                                                        | 16 02 19.5                                                           |        | schwach USGS: Argentinien                                            |
| 06  | VKA ei(P)<br>eiPP                                              | 11 00 09.5<br>01 34                                                  |        | USGS: Kirgisien, USSR                                                |
| 06  | VKA ei<br>iPP<br>VIE LmV                                       | 17 23 51.0<br>24 07<br>18 12                                         |        | MLV= 5.3 USGS: Argentinien                                           |
| 06  | VKA e(Sn)<br>i(Sg)                                             | 17 26 33<br>26 42                                                    |        | COLIM: Bergschlag bei Kladno, CSSR                                   |
| 06  | VKA eiPP<br>VIE ePP<br>LmV                                     | 18 11 10.6<br>18 11 11<br>59                                         |        | USGS: bei Sumbawa                                                    |
| 07  | VKA e(Pn)<br>eiPg<br>iSb<br>iSg<br>Lm<br>VIE LmV               | 19 21 52.5<br>22 02 D<br>22 30<br>22 39<br>22.8<br>19 22.8           |        | MLV= 3.4 CSEM: Friaul                                                |
| 08  | VKA iP                                                         | 00 44 04.3 C                                                         |        | schwach CSEM: Kreta                                                  |
| 08  | VKA iPKHKP<br>eiPKP2<br>VIE ePKIKP<br>eiPKP2<br>eiPP<br>LmV    | 06 35 11.9<br>35 30<br>06 35 04<br>35 31<br>39 01<br>07 46           |        | MLV= 5.7 USGS: Raum Tonga-Inseln                                     |
| 09  | VKA eiP<br>ei<br>VIE LmV                                       | 15 56 38.0 C<br>16 01 03<br>16 03.5                                  |        | MLV= 4.3 CSEM: westliche Türkei                                      |
| 10  | VKA eiP<br>eipPP<br>VIE eipPP<br>LmV                           | 05 53 31.8 C<br>55 10<br>05 55 10<br>06 12                           |        | MLV= 5.1 CSEM: Süd-Iran                                              |
| 11  | VKA ei(Sg)                                                     | 14 32 42.1                                                           |        | CSEM: Friaul                                                         |
| 12  | VKA eiPKP                                                      | 06 06 39.2 C                                                         |        | USGS: Raum Loyalty-Inseln                                            |
| 13  | VKA eiP<br>eiPP<br>e(S)<br>eiPKPPKP<br>VIE eiP<br>ei(S)<br>LmV | 01 24 55.0 C<br>27 21<br>33 38<br>53 41<br>01 24 55 U<br>33 38<br>47 | 7200   | MPV= 6.2 MLV= 5.8<br>USGS: 01 14 18.6 17.4°N, 54.8°W<br>Nordatlantik |

| Tag | Phase                                                   | U T C                                                      | D (km) | B e m e r k u n g e n               |
|-----|---------------------------------------------------------|------------------------------------------------------------|--------|-------------------------------------|
| 13  | VKA ei<br>VIE LmV                                       | 01 57 40.3<br>02 14                                        |        |                                     |
| 13  | VKA ei                                                  | 02 04 28.0                                                 |        | schwach                             |
| 13  | VKA iPKP2                                               | 03 26 32.3                                                 |        | USGS: Raum Fidschi-Inseln h= 534 km |
| 14  | VKA e(Pg)<br>eiSg<br>LmV                                | 01 48 28.5<br>49 04<br>49.3                                |        | CSEM: Friaul                        |
| 14  | VKA eiP<br>i(pP)<br>ei(sP)<br>eiPP                      | 03 13 10.3 D<br>13 30<br>13 39<br>16 50                    |        | USGS: Südlicher Indischer Ozean     |
| 14  | VKA eiPKHKP<br>ei(PKP2)<br>VIE LmV                      | 05 01 21.0<br>01 50<br>06 06                               |        | MLV= 5.4 USGS: Raum Kermadec-Inseln |
| 14  | VKA eiPKP<br>VIE eiPKP                                  | 10 38 13.2 C<br>10 38 13 U                                 |        | USGS: Tonga-Inseln                  |
| 14  | VKA eiP                                                 | 15 42 37.8 C                                               |        | USGS: Nukleartest Nevada, USA       |
| 14  | VKA ei(PKIKP)<br>i(PKHKP)<br>iPKP2<br>ei<br>ei<br>VIE i | 19 11 09.0<br>11 15<br>11 24<br>11 32<br>14 22<br>19 11 15 |        | USGS: Raum Fidschi-Inseln h= 659 km |
| 14  | VKA e<br>eiSgSg                                         | 20 37 05<br>37 16                                          |        | CSEM: Apennin bei Parma, Italien    |
| 15  | VKA eiPg<br>ei                                          | 00 04 51.8<br>05 36                                        |        | WIEN: Oberschlesien, Polen          |
| 15  | VKA iPg<br>eiSg<br>LmV                                  | 12 40 04.2 C<br>40 23.4<br>40.5                            | 170    | WIEN: Mähren, CSSR                  |
| 15  | VKA eiP<br>eiPcS<br>VIE LmV                             | 15 12 31.7 C<br>20 20<br>15 24                             |        | MLV= 4.8 CSEM: Kaukasus, USSR       |
| 15  | VKA eiP                                                 | 15 28 10.1 C                                               |        | schwach USGS: Kaukasus              |
| 15  | VKA ePKP2                                               | 16 11 09                                                   |        | USGS: Raum Tonga-Inseln             |
| 15  | VKA eP<br>ePP<br>VIE LmV                                | 23 30 25<br>32 30<br>24 03                                 |        | USGS: Tansania                      |



| Tag | Phase                            | U T C                                  | D (km) | B e m e r k u n g e n                                                            |
|-----|----------------------------------|----------------------------------------|--------|----------------------------------------------------------------------------------|
| 16  | VKA ei(Pn)<br>eiPg<br>iSg<br>ImH | 00 41 20.2 D<br>41 26<br>41 57<br>42.2 | 260    | MLV= 4.1<br>CSEM: 00 40 40.0 45.9°N, 16.2°E<br>bei Zagreb, Kroatien, Jugoslawien |
|     | VIE eiPg<br>ei(Sg)<br>ImV        | 00 41 27 R<br>42 01<br>42.1            |        |                                                                                  |
| 16  | VKA eiP                          | 07 23 43.0 C                           |        | schwach USGS: Kurilen                                                            |
| 16  | VKA eiP<br>i<br>iS               | 07 40 29.0 D<br>41 32<br>42 44         | 1400   | MPV= 5.7 MLV= 5.0<br>CSEM: 07 37 32.3 38.5°N, 27.4°E<br>westliche Türkei         |
|     | VIE eiP<br>ImV                   | 07 40 29 R<br>46                       |        |                                                                                  |
| 16  | VKA eiPg<br>eiSn<br>eiSg<br>ImH  | 10 35 15.0<br>35 38<br>35 51<br>36.0   |        | CSEM: Friaul                                                                     |
| 16  | VKA iP<br>i(pP)                  | 15 22 46.0 C<br>23 02                  |        | MPV= 5.8 USGS: bei Honshu, Japan                                                 |
|     | VIE ImV                          | 16 01                                  |        |                                                                                  |
| 16  | VKA ei<br>iSg                    | 20 31 14.3<br>31 18                    |        | CSEM: Rheingraben, Elsaß, Frankreich                                             |
| 17  | VKA eSg<br>ImV                   | 02 37 37<br>37.9                       |        | COLIM: bei Bleicherode, DDR                                                      |
| 17  | VKA ei(P)                        | 11 44 31.0                             |        | schwach USGS: Aleuten                                                            |
| 17  | VKA ePKIKP<br>iPKHKP<br>eiPKP2   | 16 21 39<br>21 46<br>21 55             |        | USGS: Raum Fidschi-Inseln h= 602 km                                              |
| 17  | VKA eiP<br>e(pP)                 | 17 39 32.7 C<br>39 49                  |        | USGS: Aleuten                                                                    |
|     | VIE ImV                          | 18 23                                  |        |                                                                                  |
| 18  | VKA eP<br>ei                     | 00 06 11<br>06 15                      |        | USGS: Golf von Aden                                                              |
|     | VIE ImV                          | 00 28                                  |        |                                                                                  |
| 18  | VKA ei                           | 00 32 07.6                             |        | CSEM: Makedonien, Jugoslawien                                                    |
| 18  | VKA eP<br>i<br>eiPcP<br>e        | 16 55 18<br>55 44<br>57 09<br>17 02 30 |        | MLV= 5.8 USGS: Sinkiang, China                                                   |
|     | VIE ei<br>eiPcP<br>eScS<br>ImV   | 16 55 28<br>57 09<br>17 05 15<br>15    |        |                                                                                  |

| Tag | Phase                                                                       | U T C                                                                                            | D (km) | B e m e r k u n g e n                                                                    |
|-----|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------|
| 19  | VKA eiP<br>i<br>ei<br>eS                                                    | 23 41 25.0 C<br>41 50<br>42 36<br>46 54                                                          |        | MLV= 5.8 CSEM: Mittel-Iran                                                               |
|     | VIE eiP<br>ei<br>ImV                                                        | 23 41 25 U<br>41 42<br>58                                                                        |        |                                                                                          |
| 20  | VKA eSg                                                                     | 01 56 17                                                                                         |        | WIEN: Friaul                                                                             |
| 20  | VKA eSg                                                                     | 01 57 39                                                                                         |        | WIEN: Friaul                                                                             |
| 20  | VKA eiP<br>VIE eiP                                                          | 09 02 14.0 D<br>09 02 14 R                                                                       |        | MPV= 5.8<br>USGS: Kurilen h= 140 km                                                      |
| 20  | VKA ei                                                                      | 10 06 46.6                                                                                       |        | USGS: Süd-Sumatra h= 105 km                                                              |
| 20  | VKA ei<br>ei                                                                | 14 41 42.3<br>41 50                                                                              |        | Nahbeben                                                                                 |
| 20  | VKA eiP                                                                     | 20 06 32.5                                                                                       |        | CSEM: Tyrrhenisches Meer h= 196 km                                                       |
| 21  | VKA eiP<br>i<br>i(P)<br>i<br>eiSKKS<br>VIE i(P)<br>i(P)<br>i<br>eiSP<br>ImV | 01 13 41.4 C<br>13 43<br>17 30<br>17 48<br>24 25<br>01 13 43<br>17 29<br>17 49<br>25 54<br>02 02 | 10250  | MPV= 6.9 MPPV= 6.8 MLV= 6.6<br>USGS: 01 00 32.8 25.5°N, 143.1°E<br>bei den Vulkan-Inseln |
| 21  | VKA ei                                                                      | 04 06 21.2                                                                                       |        | USGS: Provinz San Juan, Argentinien                                                      |
| 21  | VKA eiP<br>eipP                                                             | 05 06 53.2 D<br>07 04                                                                            |        | USGS: bei Shikoku, Japan                                                                 |
| 21  | VKA eiPKHKP                                                                 | 05 27 31.3                                                                                       |        | USGS: Raum Fidschi-Inseln h= 606 km                                                      |
| 21  | VKA eiP<br>VIE ImV                                                          | 16 51 10.2 C<br>17 26                                                                            |        | USGS: bei der Ostküste von Kamtschatka                                                   |
| 22  | VKA eiP<br>ePP<br>VIE ei(P)<br>eiPP<br>ImV                                  | 04 57 29.7 D<br>05 00 39<br>04 57 31<br>05 00 40<br>37                                           | 9000   | MPV= 5.9 MPPV= 5.8 MLV= 6.2<br>USGS: Ostchinesisches Meer                                |
| 22  | VKA (ei)<br>ei                                                              | 10 41(00)<br>41 14                                                                               |        | auch in JÓSVAFÓ u.a.                                                                     |
| 22  | VKA eiP<br>VIE eiP<br>ImV                                                   | 13 42 42.7 D<br>13 42 43 R<br>14 30                                                              |        | USGS: Atlantisch-indischer Rücken                                                        |



| Tag | Phase                                                           | U T C                                                                           | D (km) | B e m e r k u n g e n                                                        |
|-----|-----------------------------------------------------------------|---------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------|
| 22  | VKA eiP<br>e<br>VIE eP<br>LmV                                   | 22 30 14.8 C<br>33 39<br>22 30 14.5<br>23 09                                    |        | USGS: bei Honshu, Japan                                                      |
| 23  | VKA eP<br>VIE ei(P)<br>LmV                                      | 11 21 10<br>11 21 12.5<br>31                                                    |        | MLV= 4.5 CSEM: bei Jan Mayen                                                 |
| 23  | VKA eiP<br>i<br>eiPP<br>VIE eiP<br>i<br>ePP<br>LmV              | 21 14 23.7 C<br>15 14<br>17 29<br>21 14 23 U<br>15 14<br>17 28<br>53            |        | MPV= 6.1 MLV= 6.2<br>USGS: bei Honshu, Japan                                 |
| 23  | VKA eiP<br>eipP                                                 | 21 21 36.4 C<br>21 47                                                           |        | USGS: bei Honshu, Japan                                                      |
| 23  | VKA eiP<br>ei<br>VIE eiP<br>ei<br>LmV                           | 21 26 37.5 C<br>28 26<br>21 26 36.5 U<br>28 27<br>22 07                         |        | MPV= 5.9 MLV= 6.4<br>USGS: bei Honshu, Japan                                 |
| 23  | VKA eiP<br>VIE eP                                               | 22 22 51.0 D<br>22 22 51.5                                                      |        | USGS: bei Honshu, Japan                                                      |
| 23  | VKA eiP                                                         | 23 19 39.5 D                                                                    |        | USGS: bei Honshu, Japan                                                      |
| 27  | VKA i<br>ei                                                     | 11 01 17.0<br>01 49                                                             |        | WIEN: Kleine Karpaten, CSSR                                                  |
| 27  | VKA (ei)PKIKP<br>iPKHKP<br>eipPKIKP<br>ei                       | 11 57(00)<br>57 04<br>59 15<br>59 23                                            |        | USGS: Raum Fidschi-Inseln h= 555 km                                          |
| 27  | VKA eiPg<br>i<br>ei<br>i                                        | 14 32 13.1 C<br>32 21<br>32 35<br>32 42                                         |        | WIEN: Kleine Karpaten, CSSR                                                  |
| 27  | VKA ipP<br>ei(PP)                                               | 15 21 36.1<br>23 40                                                             |        | USGS: Süd-Alaska h= 175 km                                                   |
| 28  | VKA iP1<br>iP2<br>ipP2<br>i<br>iPP2<br>iPcP2<br>ei(S2)<br>eisS1 | 02 52 47.0 D<br>52 52.0 C<br>53 03<br>53 21<br>54 18<br>55 11<br>58 38<br>58 46 | 4150   | MPV= 6.5 MPPV= 6.8 MLV= 6.1<br>USGS: 02 45 36.7 16.7°N, 40.3°E<br>Rotes Meer |

| Tag | Phase                                                               | U T C                                                                            | D (km) | B e m e r k u n g e n                                                                            |
|-----|---------------------------------------------------------------------|----------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------|
| Zu  |                                                                     |                                                                                  |        |                                                                                                  |
| 28  | VIE iP1<br>iP2<br>eipP2<br>i<br>eiPP2<br>iS2<br>ei<br>LmV           | 02 52 48 R<br>52 52 U<br>53 04<br>53 21<br>54 18<br>58 36<br>03 01 26<br>07      |        |                                                                                                  |
| 28  | VKA (ei)P<br>i<br>iPPP<br>e(sS)<br>VIE (ei)P<br>ei<br>ei(sS)<br>LmV | 20 38(00)<br>38 14<br>38 45<br>42 36<br>20 38(00) U<br>38 12<br>42 36<br>49      |        | MPV= 5.7 MLV= 4.8<br>CSEM: Island                                                                |
| 29  | VKA eiP                                                             | 11 59 27.2 D                                                                     |        | schwach USGS: Zaïre                                                                              |
| 29  | VKA ei                                                              | 14 06 38.3                                                                       |        | schwach                                                                                          |
| 29  | VKA eP<br>i<br>VIE ei<br>LmV                                        | 16 55 31.5<br>55 40<br>16 59 09<br>17 00.5                                       |        | MLV= 4.5 CSEM: Mittel-Griechenland                                                               |
| 29  | VKA epP                                                             | 19 59 16                                                                         |        | USGS: Raum Bonin-Inseln h= 529 km                                                                |
| 30  | VKA iP<br>iS<br>i<br>VIE iP<br>iS<br>i<br>ei<br>ei                  | 17 37 08.0 C<br>38 38<br>39 49<br>17 37 08 U<br>38 38<br>39 46<br>40 38<br>44 06 | 920    | MPV= 6.2 CSEM: 17 35 10.5<br>40.0°N, 15.4°E Golf von Policastro,<br>Tyrrhenisches Meer h= 288 km |
| 31  | VKA eiP                                                             | 08 06 45.3 C                                                                     |        | USGS: Süd-Peru h= 158 km                                                                         |
| 31  | VKA (i)PKP                                                          | 11 13(00)                                                                        |        | USGS: Raum Loyalty-Inseln                                                                        |
| 31  | VKA ei<br>eiSb<br>iSg<br>Lm                                         | 12 11 05.6<br>11 21<br>11 28<br>11.7                                             |        | COLIM: Oberschlesien, Polen                                                                      |

W i e n , 5. Oktober 1978 J. D r i m m e l  
E. F i e g w e i l