

# BULLETIN SEISMIQUE

préliminaire

de la station séismologique de CHEB (Eger).

$\varphi = 50^{\circ}04'46''$  N,  $\lambda = 12^{\circ}22'34''$  E,  $h = 430$  m,

sous-sol: strates tertiaires 30 m, phyllit.

| Appareil           | C <sub>te</sub> | Enregistrement | Vitesse<br>de l'inscription<br>mm/min. | Masse<br>kg | Amortissement | T <sub>0</sub><br>sec | V <sub>0</sub> | r<br>mm | $\epsilon : 1$ |
|--------------------|-----------------|----------------|----------------------------------------|-------------|---------------|-----------------------|----------------|---------|----------------|
| Pendules<br>Mainka | NS              | mécanique      | 14 mm/min.                             | 450         | d'air         | 13,2                  | 152            | 0,3     | 7,6            |
| Belar<br>Zlatorog  | EW              | photographique | 7 mm/min.                              | 1           | magnétique    | 10                    | 138            | -       | 3,8            |
| A.-W.              | NS              | photogr.       | 30 mm/min.                             | 45          | magn.         | 2                     | 1400           | -       | 3,3            |

| Date | Phase | Heure<br>h m s<br>T. M. G. | Période | Amplitude $\mu$ |                |                | $\Delta$<br>km | Remarques |
|------|-------|----------------------------|---------|-----------------|----------------|----------------|----------------|-----------|
|      |       |                            |         | A <sub>N</sub>  | A <sub>E</sub> | A <sub>Z</sub> |                |           |

6 eN 12 19 35 Forte ag.mi.  
eN 20 24 Grèce.  
eN 22 05  
eL 22,9  
M 23,8 12;13 9 12  
M 25 10 6  
F 35

7 eiNP 16 51 27 Yukon.  
eiN 51 32,5  
eiN 51 52,5  
eiPcP 52 10  
ei 54 38

8 eNP 07 24 37 10300ca Ag.mi.  
eN 25 20 93° ca Mexique  
eN 27 26  
eiNPP 28 33  
eNS 35,6  
M 08 03,7 23 2  
M 08,2 17;18 3 2  
F 30

| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |                |                | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|----------------|----------------|----------------|-----------|
|      |       | h        | m | s |         | - Cnco -        |                |                |                |           |
|      |       | T. G. M. |   |   |         | A <sub>N</sub>  | A <sub>E</sub> | A <sub>Z</sub> |                |           |

I.

|    |                  |    |      |      |       |     |     |  |       |                |
|----|------------------|----|------|------|-------|-----|-----|--|-------|----------------|
| 8  | eiNP             | 21 | 08   | 07,5 |       |     |     |  | 11200 | Chili.         |
|    | eiN              |    | 08   | 22   |       |     |     |  | 101°  |                |
|    | e                |    | 10   | 23   |       |     |     |  |       |                |
|    | ei               |    | 11   | 11   |       |     |     |  |       |                |
|    | eiPP             |    | 12   | 21   |       |     |     |  |       |                |
|    | ei               |    | 12   | 39   |       |     |     |  |       |                |
|    | ei               |    | 14   | 16   |       |     |     |  |       |                |
|    | eiE SKS          |    | 18   | 38   | 3     |     | 5,1 |  |       |                |
|    | eiN              |    | 18   | 43   |       |     |     |  |       |                |
|    | eiSKKS           |    | 19   | 03   |       |     |     |  |       |                |
|    | eiS              |    | 19   | 35   |       |     |     |  |       |                |
|    | eiPS             |    | 21   | 32   |       |     |     |  |       |                |
|    | ei               |    | 23   | 12   |       |     |     |  |       |                |
|    | eL               |    | 40   |      |       |     |     |  |       |                |
|    | M                |    | 49,5 |      | 29;22 | 6   | 17  |  |       |                |
|    | M                |    | 57,5 |      | 19;17 | 3   | 5   |  |       |                |
|    | M                | 22 | 02,5 |      | 17    | 3   |     |  |       |                |
|    | F                |    | 45   |      |       |     |     |  |       |                |
| 9  | eiP <sub>1</sub> | 12 | 24   | 38   |       |     |     |  |       | Forte ag.mi.   |
|    | ei               |    | 24   | 46   |       |     |     |  |       | Iles Fidji.    |
|    | eiP <sub>2</sub> |    | 25   | 08   |       |     |     |  |       | h = 550 km ca. |
|    | ei               |    | 25   | 29   |       |     |     |  |       |                |
|    | ei               |    | 26   | 15   |       |     |     |  |       |                |
|    | eiP <sub>1</sub> |    | 26   | 46   |       |     |     |  |       |                |
|    | eiP <sub>2</sub> |    | 27   | 13   |       |     |     |  |       |                |
|    | ei               |    | 27   | 33   |       |     |     |  |       |                |
|    | eiP <sub>2</sub> |    | 28   | 19   |       |     |     |  |       |                |
| 10 | eiNPKS           | 09 | 13   | 05   |       |     |     |  | 17200 | Forte ag.mi.   |
|    | eiN              |    | 13   | 39   |       |     |     |  | 155°  | Iles Tonga.    |
|    | ePP              |    | 16   | 30   |       |     |     |  |       |                |
|    | eNSKS            |    | 19   | 25   |       |     |     |  |       |                |
|    | eSKKS            |    | 23   | 10   |       |     |     |  |       |                |
|    | eiN              |    | 23   | 45   | 13    | 3,5 |     |  |       |                |
|    | eiE              |    | 26   | 26   |       |     |     |  |       |                |
|    | ei               |    | 27   | 12   | 14    | 4,0 |     |  |       |                |
|    | e                |    | 28   | 46   |       |     |     |  |       |                |
|    | ePPS             |    | 29   | 33   |       |     |     |  |       |                |
|    | eSS              |    | 36,3 |      |       |     |     |  |       |                |
|    | eSSS             |    | 42,2 |      |       |     |     |  |       |                |
|    | eL               |    | 53   |      |       |     |     |  |       |                |
|    | M                | 10 | 12,4 |      | 28    | 23  |     |  |       |                |
|    | M                |    | 18   |      | 25    | 14  |     |  |       |                |
|    | M                |    | 25   |      | 19    | 7   |     |  |       |                |
|    | M                |    | 28   |      | 17    |     | 14  |  |       |                |
|    | M                |    | 58   |      | 16;17 | 14  | 14  |  |       |                |
|    | F                | 12 |      |      |       |     |     |  |       |                |
| 10 | e                | 11 | 16   | 11   |       |     |     |  |       | Séismique?     |
|    | e                |    | 17   | 35   |       |     |     |  |       |                |
|    | ei               |    | 18   | 12   |       |     |     |  |       |                |
|    | e                |    | 19   | 12   |       |     |     |  |       |                |
|    | ei               |    | 20   | 18   |       |     |     |  |       |                |
|    | ei               |    | 20   | 25   |       |     |     |  |       |                |

I.

| Date | Phase                             | Heure |      |      | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Forte ag. Remarques<br>Iles Nicobar. |
|------|-----------------------------------|-------|------|------|---------|-----------------|-------|-------|----------------|--------------------------------------|
|      |                                   | h     | m    | s    |         | $A_N$           | $A_E$ | $A_Z$ |                |                                      |
| 11   | eiN <sup>+</sup>                  | 06    | 23   | 19,5 |         |                 |       |       |                |                                      |
|      | ei                                | T.M   | 06   |      |         |                 |       |       |                |                                      |
|      | ei                                | 05    | 26   |      |         |                 |       |       |                |                                      |
|      | eL                                | 56,5  |      |      |         |                 |       |       |                |                                      |
|      | M                                 | 07    | 03,1 |      | 15      | 2               |       |       |                |                                      |
|      | F                                 | 30    |      |      |         |                 |       |       |                |                                      |
| 12   | eiN <sup>+</sup> , P <sub>n</sub> | 05    | 47   | 29,5 |         |                 |       |       | 580            | Ag.mi.                               |
|      | eiE <sup>+</sup>                  | 47    | 32,8 |      |         |                 |       |       | 5,2°           | Hongrie.                             |
|      | ei                                | 47    | 39,5 |      |         |                 |       |       |                |                                      |
|      | eiP                               | 47    | 54   |      |         |                 |       |       |                |                                      |
|      | i                                 | 48    | 11,0 |      |         |                 |       |       |                |                                      |
|      | iSn                               | 48    | 25,5 |      |         |                 |       |       |                |                                      |
|      | i                                 | 48    | 40,0 |      |         |                 |       |       |                |                                      |
|      | iS <sup>+</sup> <sub>1</sub>      | 48    | 43,0 |      |         |                 |       |       |                |                                      |
|      | iS                                | 49    | 02   |      |         |                 |       |       |                |                                      |
|      | M                                 | 49    | 24   |      | 8;8,5   | 50              | 42    |       |                |                                      |
|      | F                                 | 06    | 30   |      |         |                 |       |       |                |                                      |
| 12   | eP <sub>n</sub>                   | 07    | 42   | 27,5 |         |                 |       |       | 560            | Hongrie.                             |
|      | e                                 | 43    | 04   |      |         |                 |       |       | 5°             |                                      |
|      | eiSn                              | 43    | 20,2 |      |         |                 |       |       |                |                                      |
|      | iS <sup>+</sup>                   | 43    | 45,0 |      |         |                 |       |       |                |                                      |
|      | iS                                | 43    | 58   |      |         |                 |       |       |                |                                      |
|      | M                                 | 44    | 18   |      | 1,5     |                 | 0,5   |       |                |                                      |
|      | F                                 | 47    |      |      |         |                 |       |       |                |                                      |
| 13   | eiN <sup>+</sup>                  | 03    | 39   | 12,5 |         |                 |       |       |                | Ag.mi.                               |
|      | ei                                | 39    | 25   |      |         |                 |       |       |                | Kamtchatka.                          |
|      | M                                 | 04    | 15,4 |      | 13      | 2               |       |       |                |                                      |
|      | F                                 | 35    |      |      |         |                 |       |       |                |                                      |
| 13   | eiN                               | 06    | 36   | 36   |         |                 |       |       |                | Ag.mi.                               |
|      | e                                 | 37    | 18   |      |         |                 |       |       |                | Traces.                              |
| 14   | eiN <sup>+</sup>                  | 14    | 20   | 49   |         |                 |       |       | /8800/         | Ag.mi.                               |
|      | eiN                               | 22    | 54   |      |         |                 |       |       | /79°/          | Iles Aléoutiennes.                   |
|      | eiN                               | 23    | 08   |      |         |                 |       |       |                |                                      |
|      | e/S/                              | 30    | 46   |      |         |                 |       |       |                |                                      |
|      | M                                 | 57,4  |      |      | 19      | 3               |       |       |                |                                      |
|      | M                                 | 15    | 03,5 |      | 17;16   | 2               | 2     |       |                |                                      |
|      | F                                 | 30    |      |      |         |                 |       |       |                |                                      |
| 14   | eiN                               | 22    | 30   | 56   |         |                 |       |       |                | Iles Tonga.                          |
|      | eiN                               | 31    | 22   |      |         |                 |       |       |                | Traces.                              |
| 15   | eiN                               | 04    | 19   | 09   |         |                 |       |       |                |                                      |
|      | e                                 | 19    | 20   |      |         |                 |       |       |                |                                      |
|      | i                                 | 19    | 24   |      |         |                 |       |       |                |                                      |
|      | M                                 | 19    | 24   |      | 1       | 0,6             |       |       |                |                                      |
|      | F                                 | 21    |      |      |         |                 |       |       |                |                                      |

16 - 17

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Int.min.manquent.

| Date<br>I. | Phase | Heure<br>h m s<br>T. M. G. |  |  | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------------|-------|----------------------------|--|--|---------|-----------------|-------|-------|----------------|-----------|
|            |       |                            |  |  |         | $A_N$           | $A_E$ | $A_Z$ |                |           |

Kamtchatka.

23 e1NP 03 58 43,5  
ei 59 19  
ei 59 42  
e1PP 04 01 28

23 iP 09 05 46,9  
i 05 51,2  
iS 05 52,9  
M 05 54,3  
i 06 10,1  
i 06 16,8  
F 07

50 Volsin.  
0,4°

1 0,9

27 e1P 01 17 15,0  
ei 17 30,3  
ei 18 13  
ei 18 46  
ei 19 23,3  
ei 20 10,5  
ei/S/ 20 14,5  
ei 20 44  
F 24

- 8 -  
- 0810 -

29 e1P 22 33 37  
ei 34 13  
ei 35 40

Formose.

31 e1Pn 02 26 44,2  
iPx 26 47,3  
i 26 51  
i 26 54,4  
iPx 26 59,0  
iP 27 02,8  
iX1 27 09,8  
iX2 27 16,4  
i 27 23,2  
i 27 58,6  
iS 28 02,5  
M 28 10  
M 28 18  
F 40

490 Istrie.  
4,4°

1 7  
1 6

Praha le 28 Février 1956.

J.Nykles  
K.Siebert.

# BULLETIN SEISMIQUE

préliminaire

de la station sismologique de CHEB (Eger).

$\varphi = 50^{\circ}04'46''$  N,  $\lambda = 12^{\circ}22'34''$  E,  $h = 430$  m,

sous-sol: strates tertiaires 30 m, phyllit.

| Appareil           | Cte | Enregistrement | Vitesse<br>de l'inscription<br>mm/min. | Masse<br>kg | Amortissement | T <sub>0</sub><br>sec | V <sub>0</sub> | r<br>mm | $\varepsilon:1$ |
|--------------------|-----|----------------|----------------------------------------|-------------|---------------|-----------------------|----------------|---------|-----------------|
| Pendules<br>Mainka | NS  | mécanique      | 14 mm/min.                             | 450         | d'air         | 13,2                  | 152            | 0,3     | 7,6             |
| Belar<br>Zlatorog  | EW  | photographique | 7 mm/min.                              | 1           | magnétique    | 10                    | 138            | -       | 3,8             |
| A.-W.              | NS  | photogr.       | 30 mm/min.                             | 4g          | magn.         | 2                     | 1400           | -       | 3,3             |

| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |                |                | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|----------------|----------------|----------------|-----------|
|      |       | h        | m | s |         | A <sub>N</sub>  | A <sub>E</sub> | A <sub>Z</sub> |                |           |
|      |       | T. M. G. |   |   |         |                 |                |                |                |           |

II.

1 e1PKP 01 52 36  
i 52 44  
i 52 51,7  
i 53 04  
ei 54 21,5  
ei 55 22,5  
eiPP 55 50

Iles Loyauté

1 e1P 13 54 51  
ei 55 15  
ei 55 37  
ei 56 32  
ei 57 20  
ei 58 22  
ei 58 39,5  
eiPP 59 07  
ei 59 44  
eiPP 14 01 19  
F 20

Iles Mariannes.

| Date<br>II. | Phase          | Heure    |      |      | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques         |
|-------------|----------------|----------|------|------|---------|-----------------|-------|-------|----------------|-------------------|
|             |                | h        | m    | s    |         | $A_N$           | $A_E$ | $A_Z$ |                |                   |
|             |                | T. G. M. |      |      |         |                 |       |       |                |                   |
| 1           | iP             | 15       | 13   | 26   | 1       | -3              |       |       | 1300           | Mer Tyrrhénienne. |
|             | i              |          | 13   | 51,5 |         |                 |       |       | 12°            |                   |
|             | ei             |          | 14   | 22   |         |                 |       |       |                |                   |
|             | i              |          | 14   | 53   |         |                 |       |       |                |                   |
|             | ei             |          | 15   | 29   |         |                 |       |       |                |                   |
|             | eiS            |          | 15   | 34   |         |                 |       |       |                |                   |
|             | i              |          | 16   | 26   |         |                 |       |       |                |                   |
|             | ei             |          | 17   | 10   |         |                 |       |       |                |                   |
|             | F              |          | 25   |      |         |                 |       |       |                |                   |
| 1           | ei             | 16       | 45   | 29,5 |         |                 |       |       |                |                   |
|             | ei             |          | 45   | 35,2 |         |                 |       |       |                |                   |
|             | F              |          | 46   |      |         |                 |       |       |                |                   |
| 3           | ei             | 13       | 22   | 15,5 |         |                 |       |       |                |                   |
|             | e              |          | 22   | 46   |         |                 |       |       |                |                   |
| 3           | eiPn           | 13       | 43   | 33,5 |         |                 |       |       | 430            | Ljubljana.        |
|             | ei             |          | 44   | 16,5 |         |                 |       |       | 3,9°           |                   |
|             | iSn            |          | 44   | 26   |         |                 |       |       |                |                   |
|             | i              |          | 44   | 37   |         |                 |       |       |                |                   |
|             | iSg            |          | 44   | 48   |         |                 |       |       |                |                   |
|             | Lm             |          | 44   | 53   | 1,5     | 3               |       |       |                |                   |
|             | F              |          | 50   |      |         |                 |       |       |                |                   |
| 4           | e              | 19       | 12   | 52   |         |                 |       |       |                |                   |
|             | ei             |          | 12   | 57,5 |         |                 |       |       |                |                   |
|             | F              |          | 15   |      |         |                 |       |       |                |                   |
| 4           | ei             | 22       | 04   | 25   |         |                 |       |       |                |                   |
|             | ei             |          | 04   | 34   |         |                 |       |       |                |                   |
|             | ei             |          | 04   | 38   |         |                 |       |       |                |                   |
|             | F              |          | 05   |      |         |                 |       |       |                |                   |
| 9           | eiP            | 14       | 45   | 25   |         |                 |       |       | 9600           | Californie.       |
|             | ei             |          | 45   | 46   |         |                 |       |       | 86°            |                   |
|             | ei             |          | 47   | 20   |         |                 |       |       |                |                   |
|             | <del>eiP</del> |          | 48   | 45   |         |                 |       |       |                |                   |
|             | eiS            |          | 55   | 52   | 12      | 1               |       |       |                |                   |
|             | ei             |          | 56   | 37   |         |                 |       |       |                |                   |
|             | ePS            |          | 57   | 12   |         |                 |       |       |                |                   |
|             | ei             |          | 58   | 22   |         |                 |       |       |                |                   |
|             | ciSS           | 15       | 01   | 47   |         |                 |       |       |                |                   |
|             | oSSS           |          | 05,9 |      |         |                 |       |       |                |                   |
|             | Q              |          | 10   | 35   |         |                 |       |       |                |                   |
|             | R              |          | 16   | 06   |         |                 |       |       |                |                   |
|             | Rm             |          | 20   |      | 24      | 28              |       |       |                |                   |
|             | Rm             |          | 22,3 |      | 19      | 48              |       |       |                |                   |
|             | F              | 17       |      |      |         |                 |       |       |                |                   |

| Date<br>II | Phase | Heure<br>h m s<br>T. M. G. |  |  | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------------|-------|----------------------------|--|--|---------|-----------------|-------|-------|----------------|-----------|
|            |       |                            |  |  |         | $A_N$           | $A_E$ | $A_Z$ |                |           |

|    |                                                                                             |                                                                                                                               |  |          |        |  |  |  |             |             |
|----|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|----------|--------|--|--|--|-------------|-------------|
| 10 | eNP<br>ei<br>oPP<br>e                                                                       | 00 14 59<br>15 33<br>18 25<br>21 18                                                                                           |  |          |        |  |  |  |             | Japon.      |
| 12 | eP<br>ei<br>ei<br>ei<br>ePP<br>ei<br>eiS<br>eiPS<br>ePPS<br>eSS<br>Q<br>Qm<br>Rm<br>Rm<br>F | 12 02 09<br>02 18<br>02 35<br>04 27<br>05 39<br>07 06<br>12 44<br>13 54<br>14 14<br>19,2<br>33<br>35,5<br>38,5<br>45<br>13 30 |  | 9        | 1      |  |  |  | 9700<br>87° | Luzon.      |
| 14 | eiP<br>ei<br>ci<br>ei<br>eiPP<br>eS<br>F                                                    | 01 05 14,5<br>05 26<br>05 41<br>06 29<br>08 35<br>15 23<br>20                                                                 |  |          |        |  |  |  | 9100<br>82° | Japon.      |
| 14 | eiP<br>ei<br>e<br>L<br>Rm<br>F                                                              | 09 57 06<br>57 33<br>58 48<br>10 01,1<br>02,9<br>15                                                                           |  | 14       | 1      |  |  |  |             | Algérie.    |
| 14 | eiPg<br>iSg<br>iL<br>Im<br>F                                                                | 17 40 53,6<br>40 01<br>41 05<br>41 07<br>41,6                                                                                 |  | 1        | 0,5    |  |  |  | 60<br>0,5°  | Voisin.     |
| 14 | eiP<br>e<br>L<br>Im<br>Im<br>F                                                              | 18 46 26<br>47 36<br>19 15<br>19,5<br>23<br>50                                                                                |  | 23<br>19 | 5<br>9 |  |  |  |             | Californie. |

| Date<br>II. | Phase                                                                                                                                          | Heure<br>h m s<br>T. M. G.                                                                                                                                                                            |  |  | Période                  | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques                       |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--------------------------|-----------------|-------|-------|----------------|---------------------------------|
|             |                                                                                                                                                |                                                                                                                                                                                                       |  |  |                          | $A_N$           | $A_E$ | $A_Z$ |                |                                 |
| 15          | ciP<br>e<br>e<br>ei<br>ei<br>eiS<br>i<br>Lm<br>F                                                                                               | 04 05 01<br>05 16<br>05 53<br>06 17<br>06 30<br>06 44<br>06 51<br>07 04<br>14                                                                                                                         |  |  | 1                        | 1               |       |       | 1000<br>90     |                                 |
| 15          | e<br>eSn<br>e<br>e<br>o<br>ei<br>eiSg<br>Lm<br>F                                                                                               | 17 42 37<br>44 20<br>44 55<br>44 45<br>45 17<br>45 36<br>45 48<br>45 58<br>49                                                                                                                         |  |  | 1                        | 4               |       |       | 1250<br>110    | Basses Pyrénées.                |
| 18          | ciP<br>ei<br>ei<br>oipP<br>ci<br>ei<br>ciPP<br>ci<br>ei<br>eiPPP<br>ei<br>oi<br>ciS<br>ciSP<br>ei<br>ci<br>eiSS<br>eSSS<br>oi<br>Lm<br>Lm<br>F | 07 46 19<br>46 49<br>47 17<br>47 58<br>48 14<br>49 31<br>49 54<br>50 58<br>51 25<br>52 12<br>53 22<br>54 24<br>56 00<br>57 10<br>58 25<br>59 22<br>08 02 00<br>05,4<br>08 25<br>23,7<br>29,9<br>09 20 |  |  | 7<br>8<br>17<br>16<br>12 | 15<br>16        |       |       | 9300<br>840    | Japon.<br>SN : 10 s; 28 $\mu$ . |
| 19          | oPP<br>ePS<br>eiPPS<br>e<br>eSS<br>e<br>e<br>Lm<br>Lm<br>F                                                                                     | 02 32 19<br>39 22<br>39 45<br>41 14<br>43 27<br>44,8<br>48,1<br>03 03<br>05<br>30                                                                                                                     |  |  | 15<br>15                 | 4<br>6          |       |       | 8100<br>730    | Iles Charlotte.                 |

| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|-------|-------|----------------|-----------|
|      |       | h        | m | s |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
|      |       | T. M. G. |   |   |         |                 |       |       |                |           |

II.

|    |                 |    |      |    |    |   |  |  |        |                 |
|----|-----------------|----|------|----|----|---|--|--|--------|-----------------|
| 19 | ciP             | 04 | 24   | 36 |    |   |  |  | 7900   | Alaska.         |
|    | ci              |    | 25   | 04 |    |   |  |  | 71,5°  |                 |
|    | oS              |    | 30   | 50 |    |   |  |  |        |                 |
|    | oPS             |    | 34   | 31 |    |   |  |  |        |                 |
|    | Im              |    | 49,6 |    | 24 | 2 |  |  |        |                 |
|    | Im              | 05 | 04,5 |    | 14 | 1 |  |  |        |                 |
|    | F               |    | 15   |    |    |   |  |  |        |                 |
| 20 | ciPn            | 01 | 30   | 51 |    |   |  |  | 480    | Ljubljana.      |
|    | iPx             |    | 50   | 54 |    |   |  |  | 4,3°   |                 |
|    | ei              |    | 31   | 11 |    |   |  |  |        |                 |
|    | i..Pg           |    | 31   | 14 |    |   |  |  |        |                 |
|    | iX <sub>1</sub> |    | 31   | 26 |    |   |  |  |        |                 |
|    | i               |    | 31   | 29 |    |   |  |  |        |                 |
|    | iSn             |    | 31   | 47 |    |   |  |  |        |                 |
|    | iSb             |    | 31   | 50 |    |   |  |  |        |                 |
|    | iSg             |    | 32   | 05 |    |   |  |  |        |                 |
|    | i               |    | 32   | 24 |    |   |  |  |        |                 |
|    | Im              |    | 32   | 39 | 1  | 4 |  |  |        |                 |
|    | F               |    | 36   |    |    |   |  |  |        |                 |
| 20 | c/Pn/           | 03 | 05   | 24 |    |   |  |  | /480/  | Réplique.       |
|    | c/Sn/           |    | 06   | 23 |    |   |  |  | /4,3°/ |                 |
|    | c/Sg/           |    | 06   | 44 |    |   |  |  |        |                 |
|    | ci              |    | 07   | 36 |    |   |  |  |        |                 |
|    | F               |    | 09   |    |    |   |  |  |        |                 |
| 20 | ciP             | 20 | 35   | 30 |    |   |  |  | 1900   | Turquie.        |
|    | i               |    | 35   | 36 |    |   |  |  | 17°    |                 |
|    | i               |    | 35   | 55 |    |   |  |  |        |                 |
|    | i               |    | 36   | 04 |    |   |  |  |        |                 |
|    | i               |    | 36   | 16 |    |   |  |  |        |                 |
|    | i               |    | 37   | 03 |    |   |  |  |        |                 |
|    | i               |    | 38   | 25 |    |   |  |  |        |                 |
|    | ciS             |    | 38   | 36 |    |   |  |  |        |                 |
|    | Im              |    | 42   |    | 4  | 1 |  |  |        |                 |
|    | Im              |    | 44,5 |    | 8  | 1 |  |  |        |                 |
|    | F               |    | 55   |    |    |   |  |  |        |                 |
| 21 | e               | 06 | 17   | 17 |    |   |  |  |        | Traces.         |
|    | ei              |    | 17   | 34 |    |   |  |  |        |                 |
|    | e               |    | 17   | 40 |    |   |  |  |        |                 |
| 21 | oPKP            | 20 | 51   | 43 |    |   |  |  |        |                 |
|    | ci              |    | 51   | 50 |    |   |  |  |        |                 |
|    | ci              |    | 52   | 44 |    |   |  |  |        |                 |
|    | e               |    | 53   | 44 |    |   |  |  |        |                 |
| 21 | ciP             | 23 | 04   | 31 |    |   |  |  |        | Océan Arctique. |
|    | ci              |    | 04   | 46 |    |   |  |  |        |                 |
|    | ci              |    | 05   | 21 |    |   |  |  |        |                 |

| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|-------|-------|----------------|-----------|
|      |       | h        | m | s |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
| II.  |       | T. M. G. |   |   |         |                 |       |       |                |           |

22 eiP 00 12 48  
ei 12 54  
ci 13 18  
e 14 48

Océan Arctique.

22 eiP 10 10 53  
ei 11 02  
ei 12 20

Océan Indien  
5° S; 67° E  
H = 09 59 24 /USCGS/.

23 eiP 01 29 30  
ei 29 43  
eiPP 30 59  
eiPP 31 25  
eS 35 35  
e 35 56  
L 42 12  
Lm 42, 8  
F 50

4650  
420

Océan Atlantique.

15 2

Praha le 28.IV.1956.

J.Nyklos.

Mars 1956

## BULLETIN SÉISMIQUE

préliminaire

de la station séismologique de CHEB (Eger).

 $\varphi = 50^{\circ}04'46''$  N,  $\lambda = 12^{\circ}22'34''$  E,  $h = 430$  m,

sous-sol: strates tertiaires 30 m, phyllit.

| Appareil        | Cte | Enregistrement | Vitesse de l'inscription mm/min. | Masse kg | Amortissement | $T_0$ sec | $V_0$ | $r$ mm | $\varepsilon:1$ |
|-----------------|-----|----------------|----------------------------------|----------|---------------|-----------|-------|--------|-----------------|
| Pendules Mainka | NS  | mécanique      | 14 mm/min.                       | 450      | d'air         | 12        | 150   | 0,1    | 8,0             |
| Belar Zlatorog  | EW  | photographique | 7 mm/min.                        | 1        | magnétique    | 10        | 138   | 0      | 3,3             |
| A.-W.           | NS  | photogr.       | 30 mm/min.                       | 4g       | magn.         | 2         | 1400  | -      | 3,3             |

| Date III. | Phase | Heure    |   |   | Période | Amplitude $\mu$ |       |       | $\Delta$ km | Remarques |
|-----------|-------|----------|---|---|---------|-----------------|-------|-------|-------------|-----------|
|           |       | h        | m | s |         | $A_N$           | $A_E$ | $A_Z$ |             |           |
|           |       | T. M. G. |   |   |         |                 |       |       |             |           |

|   |       |    |      |    |    |   |  |  |  |                    |
|---|-------|----|------|----|----|---|--|--|--|--------------------|
| 2 | eiPKP | 00 | 25   | 11 |    |   |  |  |  | Région îles Samoa. |
|   | ei    |    | 25   | 23 |    |   |  |  |  |                    |
|   | ei    |    | 25   | 47 |    |   |  |  |  |                    |
|   | e     |    | 26   | 51 |    |   |  |  |  |                    |
|   | ei    |    | 27   | 15 |    |   |  |  |  |                    |
|   | eiPP  |    | 28   | 47 |    |   |  |  |  |                    |
|   | ei    |    | 29   | 39 |    |   |  |  |  |                    |
| 3 | /e/P  | 10 | 24   | 42 |    |   |  |  |  | Birmanie.          |
|   | e     |    | 24   | 55 |    |   |  |  |  |                    |
|   | ei    |    | 25   | 20 |    |   |  |  |  |                    |
|   | ei    |    | 25   | 44 |    |   |  |  |  |                    |
|   | Lm    |    | 54,5 |    | 15 | 1 |  |  |  |                    |
|   | F     | 11 |      |    |    |   |  |  |  |                    |
| 5 | eL    | 07 | 33,4 |    |    |   |  |  |  | Chino.             |
|   | Lm    |    | 39   |    | 16 | 7 |  |  |  |                    |
|   | Lm    |    | 40,9 |    | 18 | 5 |  |  |  |                    |
|   | F     | 08 |      |    |    |   |  |  |  |                    |

| Date | Phase   | Heure    |      |      | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques               |
|------|---------|----------|------|------|---------|-----------------|-------|-------|----------------|-------------------------|
|      |         | h        | m    | s    |         | $A_N$           | $A_E$ | $A_Z$ |                |                         |
|      |         | T. G. M. |      |      |         |                 |       |       |                |                         |
| 5    | ciP     | 23       | 41   | 38   |         |                 |       |       | 8650           | Japon.                  |
|      | ci      |          | 41   | 56   |         |                 |       |       | 78°            |                         |
|      | ei      |          | 42   | 37   |         |                 |       |       |                |                         |
|      | ciPP    |          | 44   | 35   |         |                 |       |       |                |                         |
|      | eS      |          | 51   | 30   |         |                 |       |       |                |                         |
|      | eSS     |          | 56,4 |      |         |                 |       |       |                |                         |
|      | eL      | 00       | 03,5 |      |         |                 |       |       |                |                         |
|      | Q       |          | 09,0 |      |         |                 |       |       |                |                         |
|      | Qm      |          | 11,5 |      | 35      | 5               |       |       |                |                         |
|      | R       |          | 13,9 |      |         |                 |       |       |                |                         |
|      | Rm      |          | 15,7 |      | 14      | 3               | 8     |       |                |                         |
|      | Rm      |          | 18,5 |      | 16      | 3               |       |       |                |                         |
|      | F       |          | 30   |      |         |                 |       |       |                |                         |
| 8    | ei      | 11       | 05   | 59   |         |                 |       |       |                | A.-W.                   |
|      | ei      |          | 05   | 57   |         |                 |       |       |                |                         |
|      | Im      |          | 06   | 23   | 1       | 2               |       |       |                |                         |
|      | F       |          | 08   |      |         |                 |       |       |                |                         |
| 15   | ciN/Pg/ | 13       | 30   | 46   |         |                 |       |       |                | Forte ag.               |
|      | e       |          | 31   | 07   |         |                 |       |       |                | A.-W.                   |
|      | ei      |          | 31   | 18,5 |         |                 |       |       |                |                         |
|      | ei      |          | 31   | 33,6 |         |                 |       |       |                |                         |
|      | ei/Sg/  |          | 31   | 50   |         |                 |       |       |                |                         |
|      | F       |          | 33   |      |         |                 |       |       |                |                         |
| 16   | eP      | 19       | 37   | 51   |         |                 |       |       |                | A.-W.                   |
|      | e       |          | 38   | 12   |         |                 |       |       |                | Disturbé par le trafic. |
|      | e       |          | 39   | 01   |         |                 |       |       |                | Liban.                  |
|      | e       |          | 39   | 32   |         |                 |       |       |                |                         |
| 16   | eP      | 19       | 48   | 40   |         |                 |       |       |                | A.-W.                   |
|      | ei      |          | 48   | 51   |         |                 |       |       |                | Réplique.               |
|      | ei      |          | 49   | 06   |         |                 |       |       |                | Disturbé par le trafic. |
|      | ei      |          | 49   | 25   |         |                 |       |       |                |                         |
| 18   | e       | 01       | 32   | 16   |         |                 |       |       |                | A.-W.                   |
|      | e       |          | 32   | 22   |         |                 |       |       |                | Traces.                 |
|      | ei      |          | 32   | 24,5 |         |                 |       |       |                |                         |
|      | F       |          | 33   |      |         |                 |       |       |                |                         |
| 21   | e       | 05       | 00   | 55   |         |                 |       |       |                | A.-W.                   |
|      | e       |          | 01   | 55,5 |         |                 |       |       |                | Traces.                 |
|      | ei      |          | 02   | 32,5 |         |                 |       |       |                | Caucase.                |
|      | ei      |          | 03   | 25   |         |                 |       |       |                |                         |
| 25   | eL      | 00       | 12   |      |         |                 |       |       |                | Kamtchatka.             |
|      | Im      |          | 16,5 |      | 15      | 2               |       |       |                |                         |
|      | Im      |          | 18   |      | 13      | 2               |       |       |                |                         |
|      | F       |          | 30   |      |         |                 |       |       |                |                         |
| 26   | eL      | 04       | 43   |      |         |                 |       |       |                | Kamtchatka.             |
|      | Im      |          | 49,9 |      | 15      | 2               |       |       |                |                         |
|      | Im      |          | 50,5 |      | 14      |                 | 1     |       |                |                         |
|      | F       | 05       |      |      |         |                 |       |       |                |                         |

Praha le 31.Mai 1956.

V.Kárník,  
J.Nyklos.

A v r i l 1956.

# BULLETIN SÉISMIQUE

préliminaire

de la station séismologique de CHEB (Eger).

$\varphi = 50^{\circ}04'46''$  N,  $\lambda = 12^{\circ}22'34''$  E,  $h = 430$  m,

sous-sol: strates tertiaires 30 m, phyllit.

| Appareil        | C <sub>te</sub> | Enregistrement | Vitesse de l'inscription mm/min. | Masse kg | Amortissement | T <sub>0</sub> sec | V <sub>0</sub> | r mm | ε:1 |
|-----------------|-----------------|----------------|----------------------------------|----------|---------------|--------------------|----------------|------|-----|
| Pendules Mainka | NS              | mécanique      | 14 mm/min.                       | 450      | d'air         | 12,4               | 151            | 0,3  | 6,8 |
| Belar Zlatorog  | EW              | photographique | 7 mm/min.                        | 1        | magnétique    | 10                 | 138            | -    | 3,3 |
| A.-W.           | NS              | photogr.       | 30 mm/min.                       | 4g       | magn.         | 2                  | 1400           | -    | -   |

| Date<br>IV. | Phase | Heure<br>h m s<br>T. M. G. |  |  | Période | Amplitude $\mu$ |                |                | $\Delta$ km | Remarques |
|-------------|-------|----------------------------|--|--|---------|-----------------|----------------|----------------|-------------|-----------|
|             |       |                            |  |  |         | A <sub>N</sub>  | A <sub>E</sub> | A <sub>Z</sub> |             |           |

|   |      |    |        |    |    |   |   |  |       |               |
|---|------|----|--------|----|----|---|---|--|-------|---------------|
| 2 | eEP  | 12 | 02     | 44 |    |   |   |  | 9150  | Sumatra.      |
|   | eiS  |    | 12     | 56 |    |   |   |  | 82,5° |               |
|   | ePPS |    | 14/04/ |    |    |   |   |  |       |               |
|   | e    |    | 14     | 47 |    |   |   |  |       |               |
|   | eSS  |    | 18     | 50 |    |   |   |  |       |               |
|   | Lm   |    | 39,6   |    | 25 | 4 |   |  |       |               |
|   | Lm   |    | 46,5   |    | 17 |   | 2 |  |       |               |
|   | Lm   |    | 51,3   |    | 17 | 2 | 4 |  |       |               |
|   | F    | 13 | 15     |    |    |   |   |  |       |               |
| 6 | eiP  | 07 | 19     | 21 |    | - | + |  | 4900  | Hindou-Kouch. |
|   | ei   |    | 19     | 37 |    |   |   |  | 44°   |               |
|   | esP  |    | 20     | 25 |    |   |   |  |       |               |
|   | ePP  |    | 21/05/ |    |    |   |   |  |       |               |
|   | epPP |    | 21     | 44 |    |   |   |  |       |               |
|   | e    |    | 22     | 31 |    |   |   |  |       |               |
|   | e    |    | 23     | 42 |    |   |   |  |       |               |
|   | eiS  |    | 25     | 36 |    |   |   |  |       |               |
|   | Sm   |    | 25     | 44 | 9  | 2 | 1 |  |       |               |
|   | eisS |    | 26     | 52 |    |   |   |  |       |               |
|   | eiSS |    | 28     | 50 |    |   |   |  |       |               |
|   | ei   |    | 30     | 40 |    |   |   |  |       |               |
|   | F    | 08 |        |    |    |   |   |  |       |               |

| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|-------|-------|----------------|-----------|
|      |       | h        | m | s |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
|      |       | T. M. G. |   |   |         |                 |       |       |                |           |

IV.

|          |                  |            |      |    |    |     |    |  |  |                   |
|----------|------------------|------------|------|----|----|-----|----|--|--|-------------------|
| 10./e/EP | 13               | 28         | 46   |    |    |     |    |  |  | /10100/Sumatra    |
| epP      |                  | 29         | 37   |    |    |     |    |  |  | /91°/ h = 200 km. |
| e        |                  | 33         | 20   |    |    |     |    |  |  |                   |
| eiS      |                  | 39         | 20   | 8  |    |     | 4  |  |  |                   |
| ei       |                  | 39         | 55   | 8  |    |     | 6  |  |  |                   |
| eipS     |                  | 40         | 28   |    |    |     |    |  |  |                   |
| eisS     |                  | 40         | 51   |    |    |     |    |  |  |                   |
| e        |                  | 42         | 28   |    |    |     |    |  |  |                   |
| ei       |                  | 43         | 37   |    |    |     |    |  |  |                   |
| eSS      |                  | 46,2,      |      |    |    |     |    |  |  |                   |
| F        |                  | dans l'ag. |      |    |    |     |    |  |  |                   |
| 23       | eiP              | 03         | 43   | 42 |    |     |    |  |  | Japon.            |
|          | e                |            | 44   | 56 |    |     |    |  |  |                   |
|          | ei               |            | 46   | 10 |    |     |    |  |  |                   |
|          | ePP              |            | 46   | 37 |    |     |    |  |  |                   |
|          | e                |            | 47   | 35 |    |     |    |  |  |                   |
|          | Lm               | 04         | 17,7 |    | 16 |     | 11 |  |  |                   |
|          | F                |            | 40   |    |    |     |    |  |  |                   |
| 26       | ePg              | 03         | 02   | 10 |    |     |    |  |  | 630 A.-W.         |
|          | e                |            | 02   | 16 |    |     |    |  |  | 5,7° Italie.      |
|          | eiX <sub>1</sub> |            | 02   | 24 |    |     |    |  |  |                   |
|          | iX <sub>2</sub>  |            | 02   | 34 |    |     |    |  |  |                   |
|          | iSn              |            | 02   | 39 |    |     |    |  |  |                   |
|          | iSb              |            | 03   | 06 |    |     |    |  |  |                   |
|          | iSg              |            | 03   | 24 |    |     |    |  |  |                   |
|          | Lm               |            | 03   | 35 | 1  | 0,7 |    |  |  |                   |
|          | F                |            | 10   |    |    |     |    |  |  |                   |

Praha le 1 Septembre 1956.

V.Kárník  
J.Nykles.

M a i 1956

## BULLETIN SÉISMIQUE

préliminaire

de la station séismologique de CHEB (Eger).

 $\varphi = 50^{\circ}04'46''$  N,  $\lambda = 12^{\circ}22'34''$  E,  $h = 430$  m,

sous-sol: strates tertiaires 30 m, phyllit.

| Appareil           | Cte | Enregistrement | Vitesse<br>de l'inscription<br>mm/min. | Masse<br>kg | Amortissement | $T_0$<br>sec | $V_0$ | $r$<br>mm | $\varepsilon : 1$ |
|--------------------|-----|----------------|----------------------------------------|-------------|---------------|--------------|-------|-----------|-------------------|
| Pendules<br>Mainka | NS  | mécanique      | 14 mm/min.                             | 450         | d'air         | 12,6         | 151   | 0,1       | 7,9               |
| Belar<br>Zlatorog  | EW  | photographique | 7 mm/min.                              | 1           | magnétique    | 10           | 138   |           | 3,3               |
| A.-W.              | NS  | photogr.       | 30 mm/min.                             | 4g          | magn.         | 2            | 1400  |           | 2,6               |

| Date<br>V. | Phase                             | Heure<br>h m s |    |                                          | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques                   |
|------------|-----------------------------------|----------------|----|------------------------------------------|---------|-----------------|-------|-------|----------------|-----------------------------|
|            |                                   | T.             | M. | G.                                       |         | $A_N$           | $A_E$ | $A_Z$ |                |                             |
| 1          | e<br>i<br>i<br>i<br>i<br>F        | 23             | 21 | 42<br>58<br>02,5<br>07<br>12,5<br>30     |         |                 |       |       |                | A.-W.<br>Proche.            |
| 2          | e<br>ei<br>ei<br>i<br>ei<br>F     | 00             | 44 | 32<br>39<br>52,5<br>54,5<br>09<br>46     |         |                 |       |       |                | A.-W.<br>Proche.            |
| 2          | ei<br>ei<br>F                     | 06             | 00 | 16<br>26<br>01                           |         |                 |       |       |                | A.-W.<br>Traces.<br>Proche. |
| 2          | ei<br>i<br>i<br>i<br>i<br>Lm<br>F | 11             | 50 | 27<br>33<br>38,5<br>44<br>47<br>54<br>52 | 1       | 8               |       |       |                | A.-W.<br>Proche.            |

| Date | Phase | Heure    |   |   | Période | Amplitude -    |                |                | Δ<br>km | Remarques |
|------|-------|----------|---|---|---------|----------------|----------------|----------------|---------|-----------|
|      |       | h        | m | s |         | A <sub>N</sub> | A <sub>E</sub> | A <sub>Z</sub> |         |           |
|      |       | T. G. M. |   |   |         |                |                |                |         |           |

V.

|    |                                                                                                     |                                                                                                                                    |          |            |            |  |  |  |  |                           |
|----|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------|------------|------------|--|--|--|--|---------------------------|
| 5  | ePKP<br>ei<br>ei                                                                                    | 03 42 05<br>42 21,5<br>45 45                                                                                                       |          |            |            |  |  |  |  | A.-W.<br>Iles Samoa.      |
| 15 | eN<br>e<br>eiE/S/<br>eiN<br>Lm<br>F                                                                 | 18 38 31<br>39 45<br>40 30<br>40 40<br>42 40<br>55                                                                                 | 12;11    | 1          | 2          |  |  |  |  | Faible.<br>Région Grèce.  |
| 15 | eiP<br>ei<br>ei<br>ei<br>eiS<br>Lm<br>Lm<br>F                                                       | 23 00 27<br>01 10<br>01 54<br>03 06<br>03 12<br>05,4<br>06,9<br>20                                                                 | 13<br>10 | 2<br>2     | 6<br>3     |  |  |  |  | 1650 Réplique.<br>150     |
| 19 | eN/PP/20<br>e<br>eS<br>e<br>e<br>ePPS<br>eSS<br>Lm                                                  | 19 31<br>23 15<br>26 27<br>27 06<br>27 25<br>28 28<br>32 33<br>21 16,4                                                             | 14       | 1          |            |  |  |  |  | Océan Indien.             |
| 23 | eiPKP<br>PKPm<br>epPKP<br>eis:PKP<br>eiE<br>ei<br>ei<br>e<br>ei<br>e<br>ei<br>eSSS<br>Lm<br>Lm<br>F | 21 07 17<br>07 22<br>09 14<br>10 21<br>10 39<br>11 14<br>12 12<br>13/00/<br>14 31<br>16 10<br>19 45<br>36,6<br>54,5<br>22 05<br>45 | 2<br>8   | 5,5<br>7,2 | 3,8<br>4,0 |  |  |  |  | Iles Fidji                |
| 26 | /e/<br>e<br>e<br>e<br>e<br>e<br>e/Sg/                                                               | 18 41 26<br>41 31<br>42 06<br>42 19<br>42 32<br>42 42<br>43 28                                                                     | 23<br>21 | 10<br>8    |            |  |  |  |  | Italie.<br><br>voir suite |

| Date<br>V. | Phase | Heure    |   |   | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------------|-------|----------|---|---|---------|-----------------|-------|-------|----------------|-----------|
|            |       | h        | m | s |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
|            |       | T. M. G. |   |   |         |                 |       |       |                |           |

|    |    |    |  |   |   |
|----|----|----|--|---|---|
| e  | 43 | 45 |  |   |   |
| Lm | 44 | 27 |  | 5 | 1 |
| F  | 50 |    |  |   |   |

|    |       |    |    |      |  |
|----|-------|----|----|------|--|
| 26 | eiPKP | 20 | 40 | 06,5 |  |
|    | ei    |    | 40 | 28   |  |
|    | e     |    | 41 | 06   |  |
|    | epPKP |    | 42 | 31   |  |

Iles Fidji.

|    |       |    |    |    |  |
|----|-------|----|----|----|--|
| 29 | e     | 16 | 23 | 24 |  |
|    | ei    |    | 23 | 49 |  |
|    | ei    |    | 24 | 29 |  |
|    | i/Sg/ |    | 24 | 37 |  |
|    | Lm    |    | 25 | 20 |  |
|    | F     |    | 27 |    |  |

A.-W.  
Italie.

Praha, le 2 Septembre 1956.

V.Kárník,  
J.Nykles.

J u i n 1956

# BULLETIN SÉISMIQUE

préliminaire

de la station séismologique de CHEB (Eger).

$\varphi = 50^{\circ}04'46''$  N,  $\lambda = 12^{\circ}22'34''$  E,  $h = 430$  m,

sous-sol: strates tertiaires 30 m, phyllit.

| Appareil                  | Cte | Enregistrement | Vitesse<br>de l'inscription<br>mm/min. | Masse<br>kg | Amortissement | T <sub>0</sub><br>sec | V <sub>0</sub> | r<br>mm | $\epsilon:1$ |
|---------------------------|-----|----------------|----------------------------------------|-------------|---------------|-----------------------|----------------|---------|--------------|
| Pendules<br>Mainka        | NS  | mécanique      | 15 mm/min.                             | 450         | d'air         | 12,6                  | 131            | 0,3     | 8,2          |
| Belar<br>Zlatorog<br>A-W. | EW  | photographique | 7,5 mm/min.                            | 1           | magnétique    | 10                    | 138            | -       | 3,3          |
|                           | NS  | photogr.       | 28 mm/min.                             |             | magn.         | 4                     | 1400           | -       | 1,8          |

| V<br>Date | Phase | Heure |   |   | Période | Amplitude $\mu$ |             |             | $\Delta$<br>km | Remarques |
|-----------|-------|-------|---|---|---------|-----------------|-------------|-------------|----------------|-----------|
|           |       | h     | m | s |         | $\Lambda_N$     | $\Lambda_E$ | $\Lambda_Z$ |                |           |

3  
eSn 01 48 38  
ei 48 48  
e 49 11  
eSg 49 26  
e 49 42  
F 50

Italie.

9  
eiEPP 10 27 26  
eSKKS 33 39  
ei/S/ 34 40  
ePS 36 14  
eSS 42,5  
Lm 11 09,5  
Lm 15,5  
Lm 16,6  
F 12

20;26 7 15  
18 6  
18 7

Chili  
30° 1/2 S; 70° 1/2 W  
H = 10 08 32  
h = 150 km ca/USCGS/.  
Magnitude:  
6 3/4 Pasadena.

9  
eiP 23 21 48  
ei 22 09  
ei 22 33  
eiPP 23 33  
eiPPP 24 15

5 +2,8 7  
9 9  
7 5

4650 Cte E mal lisible.  
42° Afganistan.

voir suite

| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|-------|-------|----------------|-----------|
|      |       | h        | m | s |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
|      |       | T. G. M. |   |   |         |                 |       |       |                |           |

VI.

|    |       |    |      |    |       |     |    |  |      |                         |
|----|-------|----|------|----|-------|-----|----|--|------|-------------------------|
|    | ei    |    | 26   | 20 |       |     |    |  |      |                         |
|    | ei    |    | 27   | 33 |       |     |    |  |      |                         |
|    | eiS   |    | 28   | 04 |       |     |    |  |      |                         |
|    | Sm    |    | 28   | 21 | 10    | 30  |    |  |      |                         |
|    | eSS   |    | 31,3 |    |       |     |    |  |      |                         |
|    | LQ    |    | 33   |    |       |     |    |  |      |                         |
|    | LR    |    | 37   |    | 30    | 300 |    |  |      |                         |
|    | Rm    |    | 41   |    | 17    | 260 |    |  |      |                         |
|    | Rm    |    | 42   |    | 14    | 200 |    |  |      |                         |
|    | F     | 01 | 40   |    |       |     |    |  |      |                         |
| 10 | ePg   | 13 | 49   | 45 |       |     |    |  | 370  | Mal lisible.            |
|    | e     |    | 49   | 48 |       |     |    |  | 3,3° | Autriche.               |
|    | eSn   |    | 50   | 11 |       |     |    |  |      |                         |
|    | oSg   |    | 50   | 29 |       |     |    |  |      |                         |
|    | Lm    |    | 50   | 36 |       |     |    |  |      |                         |
|    | F     |    | 53   |    |       |     |    |  |      |                         |
| 11 | oL    | 08 | 34   |    |       |     |    |  |      |                         |
|    | Lm    |    | 37,3 |    | 15    | 3   |    |  |      |                         |
|    | F     | 09 |      |    |       |     |    |  |      |                         |
| 16 | Lm    | 07 | 07   |    | 19    | 5   | 5  |  |      | Iles Kouriles.          |
|    | Lm    |    | 08   |    | 17;16 | 4   | 4  |  |      |                         |
|    | F     |    | 25   |    |       |     |    |  |      |                         |
| 23 | eiP   | 02 | 29   | 31 |       |     |    |  | 8000 | Cte E n'a pas fonction- |
|    | e     |    | 31   | 17 |       |     |    |  | 72°  | né.                     |
|    | eiPP  |    | 32   | 04 |       |     |    |  |      | Kamtchatka.             |
|    | PPm   |    | 32   | 11 | 3,5   | 1,2 |    |  |      |                         |
|    | eiPPP |    | 32   | 52 |       |     |    |  |      |                         |
|    | eS    |    | 38   | 48 |       |     |    |  |      |                         |
|    | eiPS  |    | 39   | 25 |       |     |    |  |      |                         |
|    | oSS   |    | 43   | 31 |       |     |    |  |      |                         |
|    | e     |    | 47   | 24 |       |     |    |  |      |                         |
|    | L     |    | 53   |    |       |     |    |  |      |                         |
|    | Lm    |    | 58   |    | 26    | 8   |    |  |      |                         |
|    | Lm    | 03 | 02   |    | 20    | 9   |    |  |      |                         |
|    | F     |    | 45   |    |       |     |    |  |      |                         |
| 28 | eNP   | 23 | 10   | 46 |       |     |    |  | 8500 | Vancouver.              |
|    | eN    |    | 11   | 05 |       |     |    |  | 77°  |                         |
|    | eN    |    | 13   | 43 |       |     |    |  |      |                         |
|    | eiNS  |    | 20   | 30 | 9     | 1,4 |    |  |      |                         |
|    | eNSS  |    | 25,6 |    |       |     |    |  |      |                         |
|    | eNSSS |    | 29,2 |    |       |     |    |  |      |                         |
|    | L     |    | 32,4 |    |       |     |    |  |      |                         |
|    | Lm    |    | 40,4 |    | 22    | 5   | 3  |  |      |                         |
|    | Lm    |    | 45   |    | 17;18 | 9   | 12 |  |      |                         |
|    | F     | 00 | 15   |    |       |     |    |  |      |                         |

Praha, le 5 Octobre 1956.

J. Nykles.

J u i l l e t 1956

# BULLETIN SÉISMIQUE

préliminaire

de la station séismologique de CHEB (Eger).

$\varphi = 50^{\circ}04'46''$  N,  $\lambda = 12^{\circ}22'34''$  E,  $h = 430$  m,

sous-sol: strates tertiaires 30 m, phyllit.

| Appareil           | Cte | Enregistrement | Vitesse<br>de l'inscription<br>mm/min. | Masse<br>kg | Amortissement | T <sub>0</sub><br>sec | V <sub>0</sub> | r<br>mm | $\epsilon:1$ |
|--------------------|-----|----------------|----------------------------------------|-------------|---------------|-----------------------|----------------|---------|--------------|
| Pendules<br>Mainka | NS  | mécanique      | 14 mm/min.                             | 450         | d'air         | 12,6                  | 131            | 0,3     | 8,2          |
| Belar<br>Zlatorog  | EW  | photographique | 7 mm/min.                              | 1           | magnétique    | 10                    | 138            |         | 3,3          |
| A.-W.              | NS  | photogr.       | 30 mm/min.                             | 4g          | magn.         | 4,0                   | 1400           |         | 1,8          |

| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|-------|-------|----------------|-----------|
|      |       | h        | m | s |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
|      |       | T. M. G. |   |   |         |                 |       |       |                |           |

VII

1-11

Les appareils  
hors de fonctionnement.

|    |    |    |      |    |    |     |  |  |  |  |
|----|----|----|------|----|----|-----|--|--|--|--|
| 16 | eP | 15 | 18   | 22 |    |     |  |  |  |  |
|    | e  |    | 19   | 01 |    |     |  |  |  |  |
|    | e  |    | 20   | 02 |    |     |  |  |  |  |
|    | e  |    | 20   | 45 |    |     |  |  |  |  |
|    | e  |    | 22   | 50 |    |     |  |  |  |  |
|    | e  |    | 23   | 00 |    |     |  |  |  |  |
|    | e  |    | 25   | 04 |    |     |  |  |  |  |
|    | ei |    | 27   | 20 | 6  | 1,1 |  |  |  |  |
|    | ei |    | 28   | 27 |    |     |  |  |  |  |
|    | ei |    | 28   | 36 | 10 | 3,3 |  |  |  |  |
|    | ei |    | 29   | 52 |    |     |  |  |  |  |
|    | ei |    | 31   | 52 |    |     |  |  |  |  |
|    | e  |    | 33   | 14 |    |     |  |  |  |  |
|    | e  |    | 34   | 33 |    |     |  |  |  |  |
|    | Qm |    | 45   |    | 33 | 50  |  |  |  |  |
|    | Rm |    | 47,0 |    | 17 | 100 |  |  |  |  |
|    | Rm |    | 48,6 |    | 14 | 40  |  |  |  |  |
|    | Rm |    | 51,6 |    | 14 | 20  |  |  |  |  |
|    | F  | 17 |      |    |    |     |  |  |  |  |

Deux séismes?  
Birmanie.

| 17<br>Date | e<br>e/s/<br>ei<br>e | 07 53 41<br>h 59 34 s<br>08 02 06<br>05 26 | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Faible. Remarques<br>Mer de Banda.               |
|------------|----------------------|--------------------------------------------|---------|-----------------|-------|-------|----------------|--------------------------------------------------|
|            |                      |                                            |         | $A_N$           | $A_E$ | $A_Z$ |                |                                                  |
|            | eiSS                 | 07 05                                      |         |                 |       |       |                |                                                  |
|            | Lm                   | 35,4                                       | 16      | 2               |       |       |                |                                                  |
|            | Lm                   | 45,5                                       | 19      | 2               |       |       |                |                                                  |
|            | F                    | 09                                         |         |                 |       |       |                |                                                  |
| 18         | eEPP                 | 06 38 27                                   |         |                 |       |       |                | 12300 Mer de Banda.                              |
|            | eiE                  | 38 40                                      |         |                 |       |       |                | 1110                                             |
|            | eiN                  | 39 05                                      |         |                 |       |       |                |                                                  |
|            | e                    | 40 27                                      |         |                 |       |       |                |                                                  |
|            | eSKS                 | 44 23                                      |         |                 |       |       |                |                                                  |
|            | eiESKKS              | 45 15                                      | 8       |                 | 4     |       |                |                                                  |
|            | ei                   | 46 19                                      |         |                 |       |       |                |                                                  |
|            | ei                   | 48 19                                      |         |                 |       |       |                |                                                  |
|            | eiPPS                | 49 01,5                                    |         |                 |       |       |                |                                                  |
|            | eSS                  | 54,1                                       |         |                 |       |       |                |                                                  |
|            | eSSS                 | 58,3                                       |         |                 |       |       |                |                                                  |
|            | Lm                   | 07 20,5                                    | 27      | 26              |       |       |                |                                                  |
|            | Lm                   | 30,5                                       | 20      |                 | 12    |       |                |                                                  |
|            | Lm                   | 33                                         | 19      | 18              |       |       |                |                                                  |
|            | F                    | 08 15                                      |         |                 |       |       |                |                                                  |
| 21         | eiPKP                | 15 41 13                                   |         |                 |       |       |                | Traces, dans le suivant.<br>Région Îles Loyauté. |
| 21         | iNP                  | 15 41 43                                   |         |                 |       |       |                | 5800 Indes.                                      |
|            | ei                   | 42 04                                      |         |                 |       |       |                | 520                                              |
|            | ePP                  | 43 27                                      |         |                 |       |       |                |                                                  |
|            | e                    | 46 10                                      |         |                 |       |       |                |                                                  |
|            | eS                   | 49 02                                      |         |                 |       |       |                |                                                  |
|            | Lm                   | 16 08,5                                    | 15      | 6               |       |       |                |                                                  |
|            | Lm                   | 12,5                                       | 13      | 2               | 3     |       |                |                                                  |
|            | F                    | 45                                         |         |                 |       |       |                |                                                  |
| 50         | e                    | 05 46 26                                   |         |                 |       |       |                | Porte ag.                                        |
|            | Lm                   | 51                                         | 14;15   | 5               | 7     |       |                | Mer Egée.                                        |
|            | Lm                   | 52,6                                       | 11      | 4               | 3     |       |                |                                                  |
|            | F                    | 06 10                                      |         |                 |       |       |                |                                                  |
| 30         | eiP                  | 09 19 05                                   |         |                 |       |       |                | 1950 Réplique.                                   |
|            | ei                   | 19 24,5                                    |         |                 |       |       |                | 17,50                                            |
|            | ei                   | 20 08                                      |         |                 |       |       |                |                                                  |
|            | ei                   | 21 12                                      |         |                 |       |       |                |                                                  |
|            | eiS                  | 22 18,5                                    |         |                 |       |       |                |                                                  |
|            | L                    | 23                                         |         |                 |       |       |                |                                                  |
|            | Rm                   | 25                                         | 14;13   | 18              | 13    |       |                |                                                  |
|            | Rm                   | 26,5                                       | 11;10   | 22              | 15    |       |                |                                                  |
|            | F                    | 55                                         |         |                 |       |       |                |                                                  |



| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|-------|-------|----------------|-----------|
|      |       | h        | m | s |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
|      |       | T. M. G. |   |   |         |                 |       |       |                |           |

VII

30 e 10 44 20  
eS 47 10  
e 47 23  
L 48  
Rm 50  
Rm 51,7  
F 11 10

15 3 6  
11 4

Réplique.

Praha, le 6 Novembre 1956.

J. Nyklos  
K. Siebert.

# BULLETIN SÉISMIQUE

préliminaire

de la station sismologique de CHEB (Eger).

$\varphi = 50^{\circ}04'46''$  N,  $\lambda = 12^{\circ}22'34''$  E,  $h = 430$  m,

sous-sol: strates tertiaires 30 m, phyllit.

| Appareil           | Cte | Enregistrement | Vitesse<br>de l'inscription<br>mm/min. | Masse<br>kg | Amortissement | $T_0$<br>sec | $V_0$ | $r$<br>mm | $\varepsilon : 1$ |
|--------------------|-----|----------------|----------------------------------------|-------------|---------------|--------------|-------|-----------|-------------------|
| Pendules<br>Mainka | NS  | mécanique      |                                        | 450         | d'air         |              |       |           |                   |
| Belar<br>Zlatorog  | EW  | photographique | 14 mm/min.                             | 1           | magnétique    | 12,6         | 131   | 0,3       | 8,2               |
|                    |     |                | 7 mm/min.                              |             |               | 10           | 138   | -         | 3,3               |
| A.-W.              | NS  | photogr.       | 30 mm/min.                             | 4g          | magn.         | 4,0          | 1400  | -         | 1,8               |

| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|-------|-------|----------------|-----------|
|      |       | h        | m | s |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
|      |       | T. M. G. |   |   |         |                 |       |       |                |           |

VIII

12

oES 17 22 34  
oEPPS 24 08  
oESS 28 00  
L 41,3  
Lm 45,3 23 19  
Lm 51,6 16 12  
Lm 55 14 6  
F 18 25

Japon.

14 oE/PPS/ 03 17 33  
oE/PPS/ 18 17  
oESS 23,0  
Lm 47,3 17 3  
Lm 55,5 17 3  
F 04 15

Océan Indien  
H = 02 50 30 /USCGS/

15 oINP 05 33 09  
oN 33 39  
oN 34 37  
oISKs 43 03 7 2  
oi 43 34 8 3  
oEpSKs 44 32

9800 Sumatra  
88°

voir suite

| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|-------|-------|----------------|-----------|
|      |       | h        | m | s |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
|      |       | T. M. G. |   |   |         |                 |       |       |                |           |

VIII

|    |        |            |       |  |    |    |  |  |       |                   |
|----|--------|------------|-------|--|----|----|--|--|-------|-------------------|
|    | oEsSKS | 45 13      |       |  |    |    |  |  |       |                   |
|    | oE     | 47 00      |       |  |    |    |  |  |       |                   |
|    | oE     | 48 09      |       |  |    |    |  |  |       |                   |
|    | oE     | 51 21      |       |  |    |    |  |  |       |                   |
|    | F      | 06         |       |  |    |    |  |  |       |                   |
| 15 | iNPn   | 12 04 45,0 |       |  |    |    |  |  | 780   | Mor Adriatique    |
|    | iN     | 04 53      |       |  |    |    |  |  | 70    |                   |
|    | iNPb   | 05 10,5    |       |  |    |    |  |  |       |                   |
|    | oiESn  | 05 59      |       |  |    |    |  |  |       |                   |
|    | oiESb  | 06 20,4    |       |  |    |    |  |  |       |                   |
|    | iE     | 06 42,0    |       |  |    |    |  |  |       |                   |
|    | iESg   | 06 52      |       |  |    |    |  |  |       |                   |
|    | Lm     | 07,8       | 5     |  |    | 20 |  |  |       |                   |
|    | F      | 30         |       |  |    |    |  |  |       |                   |
| 15 | oiNP   | 13 24 16   |       |  |    |    |  |  | 8600  | Iles Kouriles     |
|    | oEPP   | 27 20      |       |  |    |    |  |  | 780   |                   |
|    | oE     | 30 10      |       |  |    |    |  |  |       |                   |
|    | oES    | 34 07      |       |  |    |    |  |  |       |                   |
|    | o      | 34 20      |       |  |    |    |  |  |       |                   |
|    | o/PPS/ | 35 10      |       |  |    |    |  |  |       |                   |
|    | oL     | 50,5       |       |  |    |    |  |  |       |                   |
|    | Lm     | 57         | 15    |  |    | 3  |  |  |       |                   |
|    | Lm     | 59,5       | 14    |  |    | 3  |  |  |       |                   |
|    | F      | 14 50      |       |  |    |    |  |  |       |                   |
| 16 | oNP    | 00 42 18   |       |  |    |    |  |  | 1800  | Ag.mi.            |
|    | eiN    | 42 43      |       |  |    |    |  |  | 16,20 | Région Grèce      |
|    | oN     | 43 00      |       |  |    |    |  |  |       |                   |
|    | oiNS   | 45 15,5    |       |  |    |    |  |  |       |                   |
|    | oiN    | 46 01,5    |       |  |    |    |  |  |       |                   |
|    | Lm     | 47,9       | 14    |  | 12 | 10 |  |  |       |                   |
|    |        | 58         |       |  |    |    |  |  |       |                   |
| 16 | o      | 02 18 05   |       |  |    |    |  |  |       |                   |
|    | o      | 20 01      |       |  |    |    |  |  |       | Portugal          |
|    | e      | 20 13      |       |  |    |    |  |  |       |                   |
|    | Lm     | 21,1       | 3     |  | 1  |    |  |  |       |                   |
|    | F      | 25         |       |  |    |    |  |  |       |                   |
| 24 | oiNP   | 04 39 30   |       |  |    |    |  |  | 8700  | Iles Aléoutiennes |
|    | oiN    | 39 56      |       |  |    |    |  |  | 78,50 |                   |
|    | oiN    | 41 08,5    |       |  |    |    |  |  |       |                   |
|    | oiNS   | 49 23,5    |       |  |    |    |  |  |       |                   |
|    | o      | 49 53      |       |  |    |    |  |  |       |                   |
|    | oE     | 51 50      |       |  |    |    |  |  |       |                   |
|    | oSS    | 54 06      |       |  |    |    |  |  |       |                   |
|    | oL     | 05 05      |       |  |    |    |  |  |       |                   |
|    | Lm     | 12,4       | 22    |  | 5  |    |  |  |       |                   |
|    | Lm     | 16,5       | 17:16 |  | 4  | 6  |  |  |       |                   |
|    | F      | 06         |       |  |    |    |  |  |       |                   |

| VIII<br>Date | Phase | Heure                |    |   | Période | Amplitude $\mu$ |                |                | $\Delta$<br>km | Remarques |
|--------------|-------|----------------------|----|---|---------|-----------------|----------------|----------------|----------------|-----------|
|              |       | h                    | m  | s |         | A <sub>N</sub>  | A <sub>E</sub> | A <sub>Z</sub> |                |           |
| 30           | oiNP  | T. M. G.<br>04 36 15 |    |   |         |                 |                |                |                |           |
|              | oiN   | 36 35                |    |   |         |                 |                |                |                |           |
|              | oN    | 37 01                |    |   |         |                 |                |                |                |           |
|              | oN    | 38 00                |    |   |         |                 |                |                |                |           |
|              | oN    | 39 57                |    |   |         |                 |                |                |                |           |
|              | oN    | 46 13                |    |   |         |                 |                |                |                |           |
|              | oNPS  | 46 28                |    |   |         |                 |                |                |                |           |
|              | Lm    | 05                   | 23 |   | 18      | 2               |                |                |                |           |
|              | F     | 40                   |    |   |         |                 |                |                |                |           |

1108 Aleouti onnos  
54° N; 164° W  
H = 04 24 24 /USCGS/  
Magnitudo 6 Pasadena

Praha, le 7 Novembre 1956.

J. Nyklos  
K. Siobort.

|   |       |    |    |      |
|---|-------|----|----|------|
| 1 | e     | 09 | 41 | 23   |
|   | iPg   |    | 41 | 25,9 |
|   | i     |    | 41 | 42,8 |
|   | i     |    | 41 | 47,2 |
|   | eiSn  |    | 41 | 51,8 |
|   | eiSx  |    | 41 | 54,2 |
|   | eiSb1 |    | 41 | 58,7 |
|   | eiSg  |    | 42 | 02,5 |
|   | Lm    |    | 42 | 11   |
|   | F     |    | 46 |      |

300°  
2,7° A.-W.  
Jura Souabe.

# BULLETIN SÉISMIQUE

préliminaire

de la station séismologique de CHEB (Eger).

$\varphi = 50^{\circ}04'46''$  N,  $\lambda = 12^{\circ}22'34''$  E,  $h = 430$  m,

sous-sol: strates tertiaires 30 m, phyllit.

| Appareil             | Cte | Enregistrement | Vitesse<br>de l'inscription<br>14 mm/min. | Masse<br>kg | Amortissement       | $T_0$<br>sec<br>12,6 | $V_0$<br>131 | $r$<br>mm<br>0,3 | $\varepsilon:1$<br>8,2 |
|----------------------|-----|----------------|-------------------------------------------|-------------|---------------------|----------------------|--------------|------------------|------------------------|
| Pendules<br>Mainka   | NS  | mécanique      | 7 mm/min.                                 | 450         | d'air               | 10                   | 138          | -                | 3,3                    |
| A. Beler<br>Zlatořog | EW  | photographique | 30 mm/min.                                | 1<br>4g     | magnétique<br>magn. | 4,0                  | 1400         | -                | 1,8                    |
|                      |     |                |                                           |             |                     |                      |              |                  |                        |

| IX<br>Date | Phase | Heure<br>h m s | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------------|-------|----------------|---------|-----------------|-------|-------|----------------|-----------|
|            |       |                |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
| 5          | Lm    | 14 16 00       |         |                 |       |       |                |           |
|            | Lm    | 16 14          |         |                 |       |       |                |           |
|            | F     | 18             |         |                 |       |       |                |           |

6 e 11 54 57  
 eL 55 56  
 Lm 56 23 14 1,3  
 F 12 10 Crète

25 e/Sn/ 20 49 43  
 e 50 00  
 e 50 08  
 eSg 50 36  
 Lm 50 52 3 5

29 eiP 23 33 12,5  
 ei 33 32 Ag.mi.  
 ei 34 10 Japon  
 eiPP 36 22  
 F 40

Le fonctionnement de la station pas été régulier à cause de nombreuses pannes d'appareillage.

Praha, le 7 Novembre 1956.

J. Nykles  
 K. Siebort.

# BULLETIN SEISMIQUE

préliminaire

de la station séismologique de CHEB (Eger).

$\varphi = 50^{\circ}04'46''$  N,  $\lambda = 12^{\circ}22'34''$  E,  $h = 430$  m,

sous-sol: strates tertiaires 30 m, phyllit.

| Appareil           | Cte | Enregistrement | Vitesse<br>de l'inscription<br>mm/min. | Masse<br>kg | Amortissement | T <sub>0</sub><br>sec | V <sub>0</sub> | r<br>mm | $\epsilon:1$ |
|--------------------|-----|----------------|----------------------------------------|-------------|---------------|-----------------------|----------------|---------|--------------|
| Pendules<br>Mainka | NS  | mécanique      |                                        | 450         | d'air         |                       |                |         |              |
| Belar<br>Zlatorog  | EW  | photographique | 7,5 mm/min.                            | 1           | magnétique    | 10                    | 138            | -       | 3,3          |
| A.-W.              | NS  | photogr.       | 28 mm/min.                             |             | magn.         | 4                     | 1400           | -       | 1,3          |

| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |                |                | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|----------------|----------------|----------------|-----------|
|      |       | h        | m | s |         | A <sub>N</sub>  | A <sub>E</sub> | A <sub>Z</sub> |                |           |
|      |       | T. M. G. |   |   |         |                 |                |                |                |           |

Le séismographe Mainka  
hors de fonctionnement  
à cause de la réparation.

|    |      |    |    |      |    |  |    |      |                |
|----|------|----|----|------|----|--|----|------|----------------|
| 11 | oiP  | 02 | 36 | 23,5 |    |  |    | 8650 | Iles Kouriles. |
|    | oipP |    | 37 | 45   |    |  |    | 78°  |                |
|    | ei   |    | 38 | 19   |    |  |    |      |                |
|    | oi   |    | 39 | 06   |    |  |    |      |                |
|    | oi   |    | 40 | 45   |    |  |    |      |                |
|    | oi   |    | 41 | 31,5 |    |  |    |      |                |
|    | ois  |    | 46 | 00   | 10 |  | 6  |      |                |
|    | i    |    | 46 | 18   |    |  |    |      |                |
|    | oi   |    | 49 | 02   |    |  |    |      |                |
|    | oiSS |    | 51 | 18   |    |  |    |      |                |
|    | L    | 03 | 01 |      |    |  |    |      |                |
|    | Lm   |    | 09 |      | 16 |  | 28 |      |                |
|    | Lm   |    | 12 |      | 13 |  | 15 |      |                |
|    | F    |    | 55 |      |    |  |    |      |                |

| Date<br>X | Phase | Heure    |      |      | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques                   |
|-----------|-------|----------|------|------|---------|-----------------|-------|-------|----------------|-----------------------------|
|           |       | h        | m    | s    |         | $A_N$           | $A_E$ | $A_Z$ |                |                             |
|           |       | T. M. G. |      |      |         |                 |       |       |                |                             |
| 11        | oiNP  | 17       | 01   | 19   |         |                 |       |       | 9200           | Cap Mondocina               |
|           | oiN   |          | 01   | 37   |         |                 |       |       | 83°            |                             |
|           | oiN   |          | 02   | 38,5 |         |                 |       |       |                |                             |
|           | e     |          | 04   | 13   |         |                 |       |       |                |                             |
|           | oPP   |          | 04   | 30   |         |                 |       |       |                |                             |
|           | oS    |          | 11   | 6    |         |                 |       |       |                |                             |
|           | ePS   |          | 12   | 23   |         |                 |       |       |                |                             |
|           | Lm    |          | 33   |      | 19      |                 | 8     |       |                |                             |
|           | Lm    |          | 38,4 |      | 21      | 8               |       |       |                |                             |
|           | Lm    |          | 39,5 |      | 21      |                 | 13    |       |                |                             |
|           | F     | 18       | 15   |      |         |                 |       |       |                |                             |
| 12        | oP    | 12       | 34   | 52   |         |                 |       |       |                | Japon                       |
|           | e     |          | 35   | 10   |         |                 |       |       |                |                             |
|           | e     |          | 37   | 11   |         |                 |       |       |                |                             |
|           | L     | 13       | 04   |      |         |                 |       |       |                |                             |
|           | Lm    |          | 08,7 |      | 14      |                 | 2     |       |                |                             |
|           | F     |          | 30   |      |         |                 |       |       |                |                             |
| 19        | oiNP  | 20       | 59   | 35   |         |                 |       |       | 8400           | Iles Aléoutiennes           |
|           | oiNPP | 21       | 02   | 24,5 |         |                 |       |       | 76°            |                             |
|           | e     |          | 04   | 16   |         |                 |       |       |                |                             |
|           | eiES  |          | 09   | 15,5 |         |                 |       |       |                |                             |
|           | oE    |          | 10   | 34   |         |                 |       |       |                |                             |
|           | e/SS/ |          | 14,2 |      |         |                 |       |       |                |                             |
|           | Lm    |          | 21   |      |         |                 |       |       |                |                             |
|           | Lm    |          | 33,8 |      | 20      |                 | 6     |       |                |                             |
|           | Lm    |          | 42,5 |      | 16;15   | 4               | 3     |       |                |                             |
|           | F     | 22       | 10   |      |         |                 |       |       |                |                             |
| 24        | oiNP  | 14       | 55   | 17   |         |                 |       |       |                | A.=W.                       |
|           | oi    |          | 55   | 48   |         |                 |       |       |                | Nicaragua.                  |
|           | o     |          | 56   | 26   |         |                 |       |       |                |                             |
|           | oPP   |          | 58   | 44   |         |                 |       |       |                |                             |
|           | o     | 15       | 00   | 32   |         |                 |       |       |                |                             |
|           | o     |          | 06   | 27   |         |                 |       |       |                |                             |
|           | L     |          | 19   |      |         |                 |       |       |                |                             |
|           | Lm    |          | 28,1 |      | 23      | 30              |       |       |                |                             |
|           | Lm    |          | 31,6 |      | 18      | 15              |       |       |                |                             |
|           | F     | 16       |      |      |         |                 |       |       |                |                             |
| 31        | oiNP  | 14       | 11   | 12   |         |                 |       |       | 4300           | Iran.                       |
|           | oiN   |          | 11   | 25   |         |                 |       |       | 39°            |                             |
|           | oiN   |          | 12   | 10,5 |         |                 |       |       |                |                             |
|           | oiNPP |          | 12   | 44   |         |                 |       |       |                |                             |
|           | oiPcP |          | 13   | 21   |         |                 |       |       |                |                             |
|           | oi    |          | 14   | 37   |         |                 |       |       |                |                             |
|           | oS    |          | 17   | 10   |         |                 |       |       |                |                             |
|           | oiE   |          | 17   | 15   |         |                 |       |       |                |                             |
|           | oi    |          | 18   | 27   |         |                 |       |       |                |                             |
|           | oiScS |          | 21   | 20   |         |                 |       |       |                |                             |
|           | Lm    |          | 29,5 |      | 17      | 10              |       |       |                | Praha, le 17 Décembre 1956. |
|           | Lm    |          | 33   |      | 12;16   | 5               | 4     |       |                | K.Siobert,                  |
|           | F     | 15       | 15   |      |         |                 |       |       |                | J.Nykles.                   |

# BULLETIN SÉISMIQUE

préliminaire

de la station séismologique de CHEB (Eger).

$\varphi = 50^{\circ}04'46''$  N,  $\lambda = 12^{\circ}22'34''$  E,  $h = 430$  m,

sous-sol: strates tertiaires 30 m, phyllit.

| Appareil           | Cte | Enregistrement | Vitesse<br>de l'inscription<br>mm/min. | Masse<br>kg | Amortissement | $T_0$<br>sec | $V_0$ | r<br>mm | $\epsilon : 1$ |
|--------------------|-----|----------------|----------------------------------------|-------------|---------------|--------------|-------|---------|----------------|
| Pendules<br>Mainka | NS  | mécanique      |                                        | 450         | d'air         |              |       |         |                |
| Belar<br>Zlatorog  | EW  | photographique | 7,5 mm/min.                            | 1           | magnétique    | 10           | 138   |         | 3,3            |
| A.-W.              | NS  | photogr.       | 28 mm/min.                             |             | magn.         | 4            | 1400  | -       | 1,8            |

Le séismographe Mainka hors de fonctionnement à cause de la réparation.

| Date | Phase | Heure<br>h m s<br>T. M. G. | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------|-------|----------------------------|---------|-----------------|-------|-------|----------------|-----------|
|      |       |                            |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
| XI   |       |                            |         |                 |       |       |                |           |

2    eiNP    16 07 46    1440 Grèce.  
       eN       08 26    130  
       eiN       09 09  
       eiN       10 01  
       eNS       10 12,5  
       eiN       10 34  
       eiN       11 15  
       Lm       12,7       10       3       2  
       F       20

4    eiNPKP 07 25 36    -    Iles Tonga.  
       eiN       25 43  
       eiNsPKP 26 17,5  
       eiN       26 43  
       eiN       27 40,5  
       eiN       28 11  
       e       29 04  
       eiNPP    29 25  
       Lm       08 32       21       1  
       F       45

| Date<br>XI | Phase | Heure<br>h m s<br>T. M. G. |      |  | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques               |
|------------|-------|----------------------------|------|--|---------|-----------------|-------|-------|----------------|-------------------------|
|            |       |                            |      |  |         | $A_N$           | $A_E$ | $A_Z$ |                |                         |
| 5          | ePn   | 19 46 22                   |      |  |         |                 |       |       | 380            | Disturbé par le trafic. |
|            | e     | 46 28                      |      |  |         |                 |       |       |                | Autriche.               |
|            | e     | 46 33,7                    |      |  |         |                 |       |       |                |                         |
|            | ePg   | 46 36,5                    |      |  |         |                 |       |       |                |                         |
|            | eSn   | 47 02                      |      |  |         |                 |       |       |                |                         |
|            | eiSg  | 47 16,5                    |      |  |         |                 |       |       |                |                         |
|            | Lm    | 47 21                      | 2    |  | 1       |                 | 9     |       |                |                         |
|            | F     | 55                         |      |  |         |                 |       |       |                |                         |
| 9          | eiP   | 13 18 50,5                 |      |  |         | +               |       |       | 9700           | A.-W.                   |
|            | e     | 19 07                      |      |  |         |                 |       |       | 87°            | Méridien.               |
|            | eiSP  | 19 27                      |      |  |         |                 |       |       |                |                         |
|            | e     | 21 14                      |      |  |         |                 |       |       |                |                         |
|            | eiS   | 29 18,5                    |      |  |         |                 |       |       |                |                         |
|            | e     | 29 54                      |      |  |         |                 |       |       |                |                         |
|            | eiSP  | 30 16                      |      |  |         |                 |       |       |                |                         |
|            | F     | 33                         |      |  |         |                 |       |       |                |                         |
| 11         | eiP   | 19 27 24                   |      |  |         | -               |       |       |                | A.-W.                   |
|            | ei    | 27 42                      |      |  |         |                 |       |       |                | Iles Kouriles           |
|            | ei    | 28 45                      |      |  |         |                 |       |       |                |                         |
|            | ei    | 29 26,5                    |      |  |         |                 |       |       |                |                         |
|            | eiPP  | 30 17,5                    |      |  |         |                 |       |       |                |                         |
|            | F     | 32                         |      |  |         |                 |       |       |                |                         |
| 13         | eiP   | 03 03 47                   |      |  |         | +               |       |       | 2450           | A.-W.                   |
|            | ei    | 04 06,5                    |      |  |         |                 |       |       | 22°            | Région Jan Mayen.       |
|            | eS    | 07 41                      |      |  |         |                 |       |       |                |                         |
|            | F     | 07 43                      |      |  |         |                 |       |       |                |                         |
| 17         | eiNP  | 20 38 49                   |      |  |         |                 |       |       |                | Iles Queen Charlotte.   |
|            | eiN   | 38 58                      |      |  |         |                 |       |       |                |                         |
|            | e     | 39 18                      |      |  |         |                 |       |       |                |                         |
|            | e/PP/ | 41 49                      |      |  |         |                 |       |       |                |                         |
|            | ePPP  | 43 12                      |      |  |         |                 |       |       |                |                         |
|            | Lm    | 21 08,6                    | 13   |  |         |                 | 1     |       |                |                         |
|            | Lm    | 13,5                       | 16   |  |         |                 | 3     |       |                |                         |
|            | F     | 35                         |      |  |         |                 |       |       |                |                         |
| 18         | e     | 05 45 03                   |      |  |         |                 |       |       |                | Faible.                 |
|            | Lm    | 48                         | 11   |  |         |                 | 1     |       |                | Chine.                  |
|            | F     | 55                         |      |  |         |                 |       |       |                |                         |
| 20         | eNP   | 23 24 15                   |      |  |         |                 |       |       |                | Mer Egée.               |
|            | eN    | 25 20                      |      |  |         |                 |       |       |                |                         |
|            | L     | 28 44                      |      |  |         |                 |       |       |                |                         |
|            | Lm    | 30,4                       | 10;8 |  | 1       |                 | 2     |       |                |                         |
|            | F     | 36                         |      |  |         |                 |       |       |                |                         |
| 21         | eiNP  | 07 45 44                   |      |  |         |                 |       |       |                | Japon.                  |
|            | eiN   | 45 55                      |      |  |         |                 |       |       |                |                         |
|            | L     | 08 18,3                    |      |  |         |                 |       |       |                |                         |
|            | Lm    | 23,5                       | 13   |  |         |                 | 2     |       |                |                         |
|            | F     | 35                         |      |  |         |                 |       |       |                |                         |

| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|-------|-------|----------------|-----------|
|      |       | h        | m | s |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
|      |       | T. M. G. |   |   |         |                 |       |       |                |           |

XI

|    |       |    |      |    |    |      |   |  |  |                             |
|----|-------|----|------|----|----|------|---|--|--|-----------------------------|
| 26 | eiPKP | 23 | 49   | 26 | 2  | -1,5 |   |  |  | A.-W.<br>Iles Loyauté.      |
|    | ei    |    | 49   | 38 |    |      |   |  |  |                             |
|    | ei    |    | 50   | 16 |    |      |   |  |  |                             |
|    | ei    |    | 51   | 16 |    |      |   |  |  |                             |
|    | e     |    | 52   | 14 |    |      |   |  |  |                             |
|    | e     |    | 53   | 28 |    |      |   |  |  |                             |
|    | e     |    | 54   | 23 |    |      |   |  |  |                             |
|    | F     |    | 55   |    |    |      |   |  |  |                             |
| 27 | eiPKP | 01 | 11   | 29 |    |      |   |  |  | Iles Loyauté                |
|    | ei    |    | 11   | 52 |    |      |   |  |  | 21°S; 168° 1/2 E            |
|    | F     |    | 13   |    |    |      |   |  |  | H = 00 51 46 /USCGS/.       |
| 28 | L     | 20 | 05,5 |    |    |      |   |  |  | Début perturbé par          |
|    | Lm    |    | 13,5 |    | 22 |      | 9 |  |  | le changement des feuilles. |
|    | F     |    | 25   |    |    |      |   |  |  | Iles Kouriles.              |
| 29 | eE    | 09 | 41   | 42 |    |      |   |  |  | Iles Bonin.                 |
|    | eE    |    | 43   | 08 |    |      |   |  |  |                             |
|    | eE    |    | 47,7 |    |    |      |   |  |  |                             |
|    | Lm    | 10 | 05,5 |    | 19 |      | 6 |  |  |                             |
|    | Lm    |    | 08,8 |    | 12 |      | 3 |  |  |                             |
|    | Lm    |    | 11,4 |    | 12 |      | 3 |  |  |                             |
|    | F     |    | 35   |    |    |      |   |  |  |                             |

J.Nyklos  
K.Siebert.

Praha, le 8<sup>e</sup> Janvier 1957.

D é c e m b r e 1956

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préliminaire

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sous-sol: strates tertiaires 30 m, phyllit.

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|--------------------|-----|----------------|----------------------------------------|-------------|---------------|-----------------------|----------------|---------|----------------|
| Pendules<br>Mainka | NS  | mécanique      |                                        | 450         | d'air         |                       |                |         |                |
| Belar<br>Zlatorog  | EW  | photographique | 7,5 mm/min.                            | 1           | magnétique    | 10,0                  | 138            | -       | 3,5            |
| A.- W.             | NS  | photogr.       | 28 mm/min.                             |             |               | 3,0                   | 1400           | -       | 10,0           |

Le séismographe Mainka hors de fonctionnement à cause de la réparation.

| Date<br>XII | Phase | Heure<br>h m s<br>T. M. G. |  |  | Période | Amplitude $\mu$ |                |                | $\Delta$<br>km | Remarques |
|-------------|-------|----------------------------|--|--|---------|-----------------|----------------|----------------|----------------|-----------|
|             |       |                            |  |  |         | A <sub>N</sub>  | A <sub>E</sub> | A <sub>Z</sub> |                |           |

|   |     |          |   |  |  |  |     |  |  |         |
|---|-----|----------|---|--|--|--|-----|--|--|---------|
| 2 | ei  | 08 52 46 |   |  |  |  |     |  |  | Voisin. |
|   | ei  | 52 47,5  |   |  |  |  |     |  |  |         |
|   | iSg | 52 50    |   |  |  |  |     |  |  |         |
|   | i   | 52 53    |   |  |  |  |     |  |  |         |
|   | Lm  | 52 56    | 2 |  |  |  | 0,4 |  |  |         |
|   | F   | 53,1     |   |  |  |  |     |  |  |         |

|   |    |         |    |  |  |  |   |  |  |                 |
|---|----|---------|----|--|--|--|---|--|--|-----------------|
| 8 | L  | 16 45   |    |  |  |  |   |  |  | Iles Andréanov. |
|   | Lm | 57,5    | 21 |  |  |  | 4 |  |  |                 |
|   | Lm | 17 01,5 | 18 |  |  |  | 6 |  |  |                 |
|   | F  | 15      |    |  |  |  |   |  |  |                 |

|    |      |          |  |  |  |  |  |  |  |         |
|----|------|----------|--|--|--|--|--|--|--|---------|
| 14 | e    | 00 13 58 |  |  |  |  |  |  |  | Traces. |
|    | eiSg | 14 16    |  |  |  |  |  |  |  | Proche. |
|    | ei   | 14 24    |  |  |  |  |  |  |  |         |
|    | F    | 16       |  |  |  |  |  |  |  |         |

|    |      |          |  |  |  |  |  |  |  |                |
|----|------|----------|--|--|--|--|--|--|--|----------------|
| 16 | eNP  | 01 54 39 |  |  |  |  |  |  |  | 9600 Colombie. |
|    | eiN  | 54 55,5  |  |  |  |  |  |  |  | 87°            |
|    | eiN  | 55 08,5  |  |  |  |  |  |  |  |                |
|    | eNPP | 57 50    |  |  |  |  |  |  |  |                |
|    | eS   | 02 05 14 |  |  |  |  |  |  |  |                |
|    | F    | 59       |  |  |  |  |  |  |  |                |

| Date | Phase | Heure    |   |   | Période | Amplitude $\mu$ |       |       | $\Delta$<br>km | Remarques |
|------|-------|----------|---|---|---------|-----------------|-------|-------|----------------|-----------|
|      |       | h        | m | s |         | $A_N$           | $A_E$ | $A_Z$ |                |           |
| XII  |       | T. M. G. |   |   |         |                 |       |       |                |           |

|    |                     |    |      |      |       |    |    |  |  |                         |
|----|---------------------|----|------|------|-------|----|----|--|--|-------------------------|
| 18 | eiNPP               | 02 | 49   | 51   |       |    |    |  |  | 12000ca Chili.          |
|    | eN                  |    | 50   | 26   |       |    |    |  |  | 108° ca                 |
|    | ei                  |    | 51   | 09   |       |    |    |  |  |                         |
|    | eiESKS              |    | 55   | 52   | 6     |    | 2  |  |  |                         |
|    | eiE                 |    | 56   | 10,5 | 5     |    | 3  |  |  |                         |
|    | e/S/                |    | 57   | 23   |       |    |    |  |  |                         |
|    | eEPS                |    | 58   | 49   |       |    |    |  |  |                         |
|    | eN                  | 03 | 00   | 24   |       |    |    |  |  |                         |
|    | eESS                |    | 04,5 |      |       |    |    |  |  |                         |
|    | Lm                  |    | 27,5 |      | 25;26 | 10 | 13 |  |  |                         |
|    | Lm                  |    | 30   |      | 23    | 12 |    |  |  |                         |
|    | Lm                  |    | 31,4 |      | 19    |    | 10 |  |  |                         |
|    | F                   |    | 55   |      |       |    |    |  |  |                         |
| 21 | eP                  | 09 | 10   | 42   |       |    |    |  |  | 8200 Ag.mi.             |
|    | e                   |    | 11   | 12   |       |    |    |  |  | 74° Iles Charlotte?     |
|    | ePP                 |    | 13   | 25   |       |    |    |  |  |                         |
|    | eiES                |    | 20   | 10   |       |    |    |  |  |                         |
|    | eiEPS               |    | 20   | 58   |       |    |    |  |  |                         |
|    | eSS                 |    | 25,4 |      |       |    |    |  |  |                         |
|    | L                   |    | 36   |      |       |    |    |  |  |                         |
|    | Lm                  |    | 45,3 |      | 12    |    | 3  |  |  |                         |
|    | Lm                  |    | 46,4 |      | 15    | 5  |    |  |  |                         |
|    | Lm                  |    | 47,5 |      | 14    |    | 6  |  |  |                         |
|    | F                   | 10 | 15   |      |       |    |    |  |  |                         |
| 25 | eiE...P             | 09 | 39   | 10   |       |    |    |  |  | 3050 Océan Atlantique.  |
|    | eiN...P             |    | 39   | 16   |       |    |    |  |  | 27,5°                   |
|    | ei                  |    | 39   | 27,5 |       |    |    |  |  |                         |
|    | eiN                 |    | 40   | 18   |       |    |    |  |  |                         |
|    | eiE                 |    | 40   | 44   |       |    |    |  |  |                         |
|    | eiES                |    | 43   | 48   |       |    |    |  |  |                         |
|    | Sm                  |    | 43   | 52   | 9     |    | 3  |  |  |                         |
|    | eiE                 |    | 44   | 32   |       |    |    |  |  |                         |
|    | L                   |    | 46,5 |      |       |    |    |  |  |                         |
|    | Lm                  |    | 48   |      | 13;9  | 8  | 3  |  |  |                         |
|    | F                   | 10 | 20   |      |       |    |    |  |  |                         |
| 27 | eiPKP <sub>1</sub>  | 00 | 33   | 40   |       |    |    |  |  | 17100 Région îles Tonga |
|    | ei                  |    | 33   | 48   |       |    |    |  |  | 154° h = 300 km.        |
|    | iNPKP <sub>2</sub>  |    | 33   | 56   |       |    |    |  |  |                         |
|    | eipPKP <sub>1</sub> |    | 34   | 48   |       |    |    |  |  |                         |
|    | eipPKP <sub>2</sub> |    | 35   | 18   |       |    |    |  |  |                         |
|    | e                   |    | 36   | 50   |       |    |    |  |  |                         |
|    | eiPP                |    | 37   | 39   |       |    |    |  |  |                         |
|    | eSKKS               |    | 43   | 18   |       |    |    |  |  |                         |
|    | ei                  |    | 44   | 31   |       |    |    |  |  |                         |
|    | ei                  |    | 45   | 33   |       |    |    |  |  |                         |
|    | eiN                 |    | 48   | 09   |       |    |    |  |  |                         |
|    | eiESS               |    | 56   | 27   |       |    |    |  |  |                         |
|    | L                   | 01 | 06   |      |       |    |    |  |  |                         |
|    | Lm                  |    | 28,3 |      | 23    |    | 4  |  |  |                         |
|    | F                   |    | 50   |      |       |    |    |  |  |                         |

J. Nykles  
K. Siebert.

Praha, le 8 Avril 1957.