

日本測候所地震報告

大正十年十一月—昭和三年十二月



地震學  
教習書印





No. 29.

from Nov. 29 to Dec. 10 1921!

# TAIHOKU, FORMOSA, JAPAN.

## Seismic Bulletin

of the Taihoku Meteorological Observatory.

$\varphi = 25^{\circ} 02' 3$

$\lambda = 121^{\circ} 30' 8$

$h = 8.0m$ .

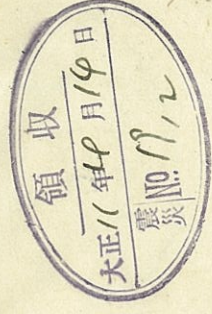
Underground; alluvium.

Instrument, Omori Horizontal Pendulum. (mass 10 kg.)

| V  | $T_o$ | $\epsilon$ | $\frac{\gamma}{T_o^2}$ |
|----|-------|------------|------------------------|
|    |       |            |                        |
| AN |       |            |                        |
| AE | 20    |            |                        |
| AZ |       |            |                        |

| Number and Date    | Phase            | Time<br>h m s                                | Period<br>s | Amplitude   |             |             | $\Delta$ | Remarks                       |
|--------------------|------------------|----------------------------------------------|-------------|-------------|-------------|-------------|----------|-------------------------------|
|                    |                  |                                              |             | AN<br>$\mu$ | AE<br>$\mu$ | AZ<br>$\mu$ |          |                               |
| No. 251<br>Nov. 29 | e<br>F           | Long. 120° E<br>10 47 28<br>10 48 41         |             |             |             |             |          |                               |
| No. 252<br>Dec. 1  | e<br>L<br>F      | 18 53 41<br>18 54 36<br>19 08 41             |             |             |             |             | 411      |                               |
| No. 253<br>" 2     | P<br>L<br>M<br>F | 01 53 46<br>01 54 08<br>01 54 26<br>02 05 03 | 19          |             | 938         |             | 160      |                               |
| No. 254<br>" 5     | e<br>F           | 00 14 52<br>00 16 16                         |             |             |             |             |          |                               |
| No. 255<br>" 8     | e<br>F           | 01 34 32<br>01 57 38                         |             |             |             |             |          |                               |
| No. 256<br>" 8     | e<br>L<br>F      | 20 35 51<br>20 39 48<br>21 04 37             |             |             |             |             | 2270     | Strong earthquake near Tokyo. |
| No. 257<br>" 10    | e<br>F           | 04 38 36<br>04 39 28                         |             |             |             |             |          |                               |
| No. 258<br>" 10    | e<br>F           | 06 06 19<br>06 07 41                         |             |             |             |             |          |                               |
| No. 259<br>" 10    | e<br>F           | 12 10 26<br>12 11 21                         |             |             |             |             |          |                               |
| No. 260<br>" 10    | e<br>F           | 14 25 21<br>14 25 50                         |             |             |             |             |          |                               |





No. 30.

from Dec. 12 to Dec. 20 1922.

## TAIHOKU, FORMOSA, JAPAN.

## Seismic Bulletin

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02' 3$  $\lambda = 121^{\circ} 30' 8$  $h = 8.0m.$ 

Underground; alluvium.

Instrument, Omori Horizontal Pendulum. (mass 10 kg.)

| V     | $T_o$ | $\varepsilon$ | $\frac{\gamma'}{T_o^2}$ |
|-------|-------|---------------|-------------------------|
|       |       |               |                         |
| AN    |       |               |                         |
| AE 20 |       |               |                         |
| Az    |       |               |                         |

| Number and Date   | Phase                          | Long. $120^{\circ} E$<br>Time<br>h m s | Period<br>s | Amplitude   |             |             | $\Delta$ | Remarks  |
|-------------------|--------------------------------|----------------------------------------|-------------|-------------|-------------|-------------|----------|----------|
|                   |                                |                                        |             | AN<br>$\mu$ | AE<br>$\mu$ | Az<br>$\mu$ |          |          |
| No. 261<br>XII 12 | $\frac{e}{F}$                  | 01 16 40<br>01 17 42                   |             |             |             |             |          |          |
| No. 262<br>" 12   | $\frac{e}{F}$                  | 07 49 52<br>07 51 50                   |             |             |             |             |          |          |
| No. 263<br>" 14   | $\frac{e}{F}$                  | 03 34 57<br>03 35 57                   |             |             |             |             |          |          |
| No. 264<br>" 15   | $\frac{e}{F}$                  | 03 41 02<br>03 44 40                   |             |             |             |             |          |          |
| No. 265<br>" 16   | $\frac{e}{L}$<br>$\frac{M}{F}$ | 12 42 58<br>12 43 08<br>12 47 36       | 10          |             | 230         |             | 71       |          |
| No. 266<br>" 16   | $\frac{P}{L}$<br>$\frac{F}{F}$ | 19 55 56<br>19 56 06<br>19 57 20       |             |             |             |             |          |          |
| No. 267<br>" 17   | $\frac{e}{F}$                  | 01 16 44<br>01 17 49                   |             |             |             |             |          |          |
| No. 268<br>" 18   | $\frac{e}{F}$                  | 17 29 11<br>17 30 17                   |             |             |             |             |          |          |
| No. 269<br>" 18   | $\frac{e}{F}$                  | 23 48 29<br>00 52 1                    |             |             |             |             |          | Distant. |
| No. 270<br>" 20   | $\frac{e}{F}$                  | 07 43 31<br>07 46 23                   |             |             |             |             |          |          |
| No. 271<br>" 20   | $\frac{e}{F}$                  | 07 46 23<br>07 48 57                   |             |             |             |             |          |          |





No. 31.

from Dec. 23 to Dec. 29 1922.

# TAIHOKU, FORMOSA, JAPAN.

## Seismic Bulletin

of the Taihoku Meteorological Observatory.

$\varphi = 25^{\circ} 02' 3$

$\lambda = 121^{\circ} 30' 8$

$h = 8.0m.$

Underground ; alluvium.

Instrument, Omori Horizontal Pendulum. (mass 10 kg.)

| V     | $T_o$ | $\epsilon$ | $\frac{\gamma'}{T_o^2}$ |
|-------|-------|------------|-------------------------|
|       |       |            |                         |
| AN    |       |            |                         |
| AE 20 |       |            |                         |
| Az    |       |            |                         |

| Number and Date   | Phase | Time<br>h m s | Period<br>s | Amplitude   |             |             | $\Delta$ | Remarks |
|-------------------|-------|---------------|-------------|-------------|-------------|-------------|----------|---------|
|                   |       |               |             | AN<br>$\mu$ | AE<br>$\mu$ | Az<br>$\mu$ |          |         |
| No. 272<br>XII 23 | F     | 13 31 07      |             |             |             |             |          |         |
|                   |       | 13 32 15      |             |             |             |             |          |         |
| No. 273<br>" 24   | F     | 05 09 43      |             |             |             |             |          |         |
|                   |       | 05 10 51      |             |             |             |             |          |         |
| No. 274<br>" 26   | F     | 02 23 58      |             |             |             |             |          |         |
|                   |       | 02 25 30      |             |             |             |             |          |         |
| No. 275<br>" 27   | F     | 12 40 35      |             |             |             |             |          |         |
|                   |       | 12 41 48      |             |             |             |             |          |         |
| No. 276<br>" 29   | F     | 22 47 35      |             |             |             |             |          |         |
|                   |       | 22 49 53      |             |             |             |             |          |         |



No. 1.

from Jan. 1 to Jan. 15 1922.

# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\phi = 25^{\circ} 02' 3''$   $\lambda = 120^{\circ} 30' 8''$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

T.  $\epsilon$   $r/T_0$  V  
AN:  $\frac{16}{30}$   
AE:  $\frac{120}{20}$   
AZ:  $\frac{20}{20}$

| No. | Date   | Phase               | G. M. T.<br>h m s                            | Period<br>s. | Amplitude<br>AN $\mu$ AE $\mu$ AZ $\mu$ | $\Delta$<br>km | Remarks                         |
|-----|--------|---------------------|----------------------------------------------|--------------|-----------------------------------------|----------------|---------------------------------|
| 1   | Jan. 1 | e<br>LN<br>F        | 09 52 59<br>09 53 08<br>09 55 38             |              |                                         | 68             |                                 |
| 2   | " 1    | e<br>LN<br>F        | 11 03 37<br>11 03 48<br>11 05 49             |              |                                         | 82             |                                 |
| 3   | " 1    | e<br>LN<br>F        | 11 08 21<br>11 08 31<br>11 10 17             |              |                                         | 71             |                                 |
| 4   | " 2    | e<br>LN<br>F        | 21 34 48<br>21 35 07<br>21 37 19             |              |                                         | 139            |                                 |
| 5   | " 3    | P<br>LN<br>ME<br>F  | 03 59 29<br>03 59 39<br>03 59 45<br>04 02 38 | 09           | 188                                     | 76             |                                 |
| 6   | " 6    | e<br>F              | 15 28 10<br>16 16 -                          |              |                                         |                | Distant.                        |
| 7   | " 7    | e<br>F              | 09 28 19<br>10 12 -                          |              |                                         |                | Do.                             |
| 8   | " 9    | e<br>F              | 06 09 57<br>07 00 -                          |              |                                         |                | Do.                             |
| 9   | " 10   | e<br>LN<br>F        | 02 48 11<br>02 48 21<br>02 49 24             |              |                                         | 75             |                                 |
| 10  | " 10   | P<br>LN<br>ME<br>F  | 13 41 38<br>13 41 57<br>13 42 07<br>14 07 00 | 09           | 805                                     | 137            | Initial displacement.<br>N 34 E |
| 11  | " 12   | e<br>F              | 15 51 07<br>15 53 54                         |              |                                         |                |                                 |
| 12  | " 13   | e<br>F              | 17 05 18<br>17 06 38                         |              |                                         |                |                                 |
| 13  | " 15   | eP<br>LN<br>MN<br>F | 09 42 47<br>09 43 01<br>09 43 10<br>09 46 10 | 1.2          | 35                                      | 102            |                                 |
| 14  | " 15   | e<br>F              | 12 50 31<br>12 52 31                         |              |                                         |                |                                 |
| 15  | " 15   | e<br>F              | 18 37 40<br>18 39 41                         |              |                                         |                |                                 |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

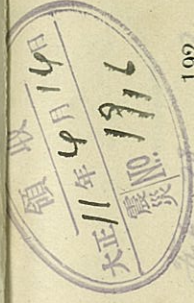
 $\varphi=25^{\circ} 02.3$   $\lambda=120^{\circ} 30.8$   $h=8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | $r/T_0$ | V   |
|--------|------------|---------|-----|
| AN: 16 |            |         | 120 |
| AE: 30 |            |         | 20  |
| AZ:    |            |         | 20  |

| No. | Date   | Phase                 | G.M.T.<br>Time<br>h m s                      | Period<br>s. | Amplitude<br>AN $\mu$ AE $\mu$ AZ $\mu$ | $\Delta$<br>km | Remarks                                    |
|-----|--------|-----------------------|----------------------------------------------|--------------|-----------------------------------------|----------------|--------------------------------------------|
| 16  | Jan 17 | 2P<br>28N<br>04N<br>F | 04 09 38<br>06 14 16<br>04 19 24<br>06 39 -  |              |                                         |                | Distant.                                   |
| 17  | " 19   | P<br>LE<br>F          | 22 12 21<br>22 15 14<br>23 02 -              |              |                                         | 1752           | Do.                                        |
| 18  | " 22   | F                     | 03 44 -<br>04 34 -                           |              |                                         |                | Do.                                        |
| 19  | " 23   | F                     | 07 59 42<br>08 01 28                         |              |                                         |                |                                            |
| 20  | " 25   | F                     | 14 30 38<br>14 31 38                         |              |                                         |                |                                            |
| 21  | " 29   | F                     | 04 00 42<br>04 13 00                         |              |                                         |                |                                            |
| 22  | " 29   | F                     | 21 43 37<br>21 44 23                         |              |                                         |                |                                            |
| 23  | " 30   | F                     | 18 16 38<br>11 18 45                         |              |                                         |                |                                            |
| 24  | " 31   | F                     | 13 40 38<br>13 54 11<br>15 25 08             |              |                                         | 6037           | Distant.                                   |
| 25  | " 31   | F                     | 18 36 21<br>18 36 38<br>18 38 43             |              |                                         | 128            |                                            |
| 26  | Feb 1  | P<br>LN<br>MN<br>F    | 00 20 20<br>00 20 30<br>00 20 34<br>00 22 30 | 14           | 70                                      | 76             |                                            |
| 27  | " 4    | F                     | 07 22 38<br>07 22 50<br>07 23 57             |              |                                         | 89             |                                            |
| 28  | " 5    | F                     | 08 35 38<br>08 35 57<br>08 38 15             |              |                                         | 124            |                                            |
| 29  | " 5    | F                     | 11 01 48<br>11 02 44<br>11 02 16             | 12           | 207                                     | 131            | End overtake by following watch-<br>grade. |
| 30  | " 5    | F                     | 11 08 26<br>11 08 21<br>11 10 45             |              |                                         | 114            |                                            |





No. 3

from 5 to

192

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi=25^{\circ} 02'.3$   $\lambda=120^{\circ} 30'.8$   $h=8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | $r/T_0$ | V   |
|---------|------------|---------|-----|
| AN : 16 |            |         | 120 |
| AE : 30 |            |         | 20  |
| AZ :    |            |         | 20  |

| No. | Date | Phase         | Time<br>h m s                                | Period<br>s. | Amplitude<br>AN $\mu$ AE $\mu$ AZ $\mu$ | $\Delta$<br>km | Remarks |
|-----|------|---------------|----------------------------------------------|--------------|-----------------------------------------|----------------|---------|
| 21  | 8/5  | $\frac{L}{F}$ | 16 41 14<br>16 43 10                         |              |                                         |                |         |
| 32  | " 6  | $\frac{L}{F}$ | 00 47 54<br>00 48 14                         |              |                                         |                | 146     |
| 33  | " "  | $\frac{L}{F}$ | 00 50 41                                     |              |                                         |                | 43      |
| 34  | " 8  | $\frac{L}{F}$ | 02 42 43<br>02 42 49<br>02 44 43             |              |                                         |                |         |
| 35  | " 10 | $\frac{L}{F}$ | 18 52 51<br>18 54 50                         |              |                                         |                |         |
| 36  | " 11 | $\frac{L}{F}$ | 03 31 12<br>03 36 49                         |              |                                         |                |         |
| 37  | " 13 | $\frac{L}{F}$ | 14 52 21<br>14 54 24                         |              |                                         |                |         |
| 38  | " 15 | $\frac{L}{F}$ | 22 40 17<br>22 42 45                         |              |                                         |                |         |
| 39  | " 15 | $\frac{L}{F}$ | 00 15 01<br>00 16 29                         |              |                                         |                | 191     |
| 40  | " 16 | $\frac{L}{F}$ | 04 29 05<br>04 29 31<br>04 29 45<br>04 32 02 | 1.3          | 62                                      |                | 111     |
| 41  | " 17 | $\frac{L}{F}$ | 19 42 36<br>19 42 51<br>19 44 56             |              |                                         |                |         |
| 42  | " 17 | $\frac{L}{F}$ | 16 40 54<br>16 43 06                         |              |                                         |                |         |
| 43  | " 18 | $\frac{L}{F}$ | 21 07 07<br>21 09 15                         |              |                                         |                |         |
| 44  | " 21 | $\frac{L}{F}$ | 02 55 31<br>02 56 40                         |              |                                         |                |         |
| 45  | " 22 | $\frac{L}{F}$ | 03 33 47<br>03 45 20                         |              |                                         |                | 471     |



# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\varphi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum (mass 16 kg.)

T.  $\epsilon$   $r/T_0$  V  
AN: 16  
AE: 30  
Az: 20

| No. | Date  | Phase                                 | Time<br>h m s                                | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks  |
|-----|-------|---------------------------------------|----------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|----------|
| 46  | Mar 1 | $\frac{2}{F}$                         | 07 51 11<br>07 52 40.                        |              |             |                          |             |                |          |
| 47  | " 2   | $\frac{2}{LN}$<br>$\frac{F}{F}$       | 14 45 27<br>14 45 38<br>14 47 26             |              |             |                          |             | 82             |          |
| 48  | " "   | $\frac{2}{F}$                         | 15 28 21<br>15 29 34                         |              |             |                          |             |                |          |
| 49  | " "   | $\frac{2}{F}$                         | 15 49 07<br>15 50 09                         |              |             |                          |             |                |          |
| 50  | " 4   | P<br>$\frac{SE}{LN}$<br>$\frac{F}{F}$ | 13 14 45<br>13 17 59<br>13 20 12<br>14 22 -  |              |             |                          |             | 2859           | Distant. |
| 51  | " 5   | $\frac{2}{LN}$<br>MN<br>$\frac{F}{F}$ | 07 53 42<br>07 53 55<br>07 54 01<br>07 57 52 | 164          | 47          |                          |             | 93             |          |
| 52  | " 6   | P<br>$\frac{LN}{MN}$<br>$\frac{F}{F}$ | 12 08 50<br>12 09 09<br>12 09 10<br>12 11 43 | 16           | 58          |                          |             | 139            |          |
| 53  | " 10  | $\frac{2}{F}$                         | 17 03 25<br>17 04 37                         |              |             |                          |             |                |          |
| 54  | " 12  | $\frac{2E}{FE}$                       | 18 23 30<br>19 15 -                          |              |             |                          |             |                |          |
| 55  | " 15  | $\frac{2}{F}$                         | 09 33 28<br>09 34 40                         |              |             |                          |             |                |          |
| 56  | " 16  | $\frac{2}{F}$                         | 01 16 16<br>01 18 26                         |              |             |                          |             |                |          |
| 57  | " "   | P<br>$\frac{LN}{MN}$<br>$\frac{F}{F}$ | 05 35 24<br>05 35 38<br>05 35 40<br>05 42 00 | 19           | 144         |                          |             | 107            |          |
| 58  | " 19  | $\frac{2}{F}$                         | 09 30 02<br>09 30 48                         |              |             |                          |             |                |          |
| 59  | " 21  | $\frac{2}{F}$                         | 18 41 43<br>18 43 06                         |              |             |                          |             |                |          |
| 60  | " 23  | P<br>$\frac{LN}{MN}$<br>$\frac{F}{F}$ | 03 01 45<br>03 02 09<br>03 02 02<br>03 05 25 | 24           | 253         |                          |             | 114            |          |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| $T_0$  | $\epsilon$ | $r/T_0$ | V   |
|--------|------------|---------|-----|
| AN: 16 |            |         | 120 |
| AE: 30 |            |         | 20  |
| AZ:    |            |         | 20  |

| No. | Date    | Phase              | G. M. T.<br>Time<br>h m s                    | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km. | Remarks  |
|-----|---------|--------------------|----------------------------------------------|--------------|-------------|-------------|-------------|-----------------|----------|
|     |         |                    |                                              |              | AN<br>$\mu$ | AE<br>$\mu$ | AZ<br>$\mu$ |                 |          |
| 61  | Mar. 27 | e<br>F             | 23 36 26<br>23 37 58                         |              |             |             |             |                 |          |
| 62  | " 29    | P<br>LN<br>MN<br>F | 09 14 26<br>09 14 43<br>09 14 43<br>09 19 47 | 19           | 237         |             |             | 123             |          |
| 63  | " 31    | e<br>F             | 17 51 46<br>17 53 34                         |              |             |             |             | 116             |          |
| 64  | Apr. 2  | e<br>LN<br>F       | 01 24 16<br>01 24 32<br>01 26 39             |              |             |             |             | 134             |          |
| 65  | " 3     | P<br>LN<br>MN<br>F | 02 16 48<br>02 17 06<br>02 17 11<br>02 20 20 | 19           | 156         |             |             | 128             |          |
| 66  | " "     | P<br>LN<br>F       | 07 49 56<br>07 50 13<br>07 52 33             |              |             |             |             | 111             |          |
| 67  | " 5     | e<br>LN<br>ME<br>F | 00 45 55<br>00 46 10<br>00 46 11<br>00 47 41 | 09           | 195         |             |             | 2676            | Distant. |
| 68  | " "     | P<br>LN<br>F       | 10 05 49<br>10 10 48<br>11 22 00             |              |             |             |             |                 |          |
| 69  | " 7     | e<br>F             | 15 59 00<br>16 25 00                         |              |             |             |             |                 |          |
| 70  | " "     | e<br>F             | 16 34 00<br>16 36 23                         |              |             |             |             |                 |          |
| 71  | " 8     | e<br>F             | 03 51 -<br>04 16 -                           |              |             |             |             |                 |          |
| 72  | " 9     | e<br>F             | 06 16 07<br>06 19 35                         |              |             |             |             |                 |          |
| 73  | " 10    | P<br>LN<br>ME<br>F | 03 10 02<br>03 10 22<br>03 10 23<br>03 15 11 | 12           | 700         |             |             | 150             |          |
| 74  | " "     | e<br>F             | 16 16 00<br>16 17 45                         |              |             |             |             |                 |          |
| 75  | " 17    | e<br>LN<br>F       | 02 14 13<br>02 14 32<br>02 17 39             |              |             |             |             | 140             |          |



大正 11 年 7 月 25 日

NO. 78

No. 6.

from April 20 to May 2 1922

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Onori Horizontal Pendulum (mass 16 kg.)

| $T_0$  | $\epsilon$ | $V/T_0$ | V   |
|--------|------------|---------|-----|
| AN: 46 |            |         | 170 |
| AE: 30 |            |         | 20  |
| Az:    |            |         | 20  |

| No. | Date    | Phase                   | G. M. T.<br>h m s                                        | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks                                              |
|-----|---------|-------------------------|----------------------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|------------------------------------------------------|
| 76  | Apr. 20 | E<br>F                  | 13 15 28<br><i>overtaken by following earthquake.</i>    |              |             |                          |             |                |                                                      |
| 77  | "       | E<br>F                  | 13 18 29<br>13 22 00                                     |              |             |                          |             |                |                                                      |
| 78  | "       | E<br>L<br>F             | 13 34 43<br>13 36 05<br>13 43 20                         |              |             |                          |             | 602            |                                                      |
| 79  | " 21    | P<br>L<br>MN<br>F       | 19 54 22<br>19 54 34<br>19 54 54<br>19 58 23             | ?            | 111         |                          |             | 87             |                                                      |
| 80  | " 23    | E<br>F                  | 21 35 -<br>22 18 -                                       |              |             |                          |             |                | Distant.                                             |
| 81  | " 24    | P<br>L<br>MN<br>F       | 23 22 55<br>23 23 11<br>23 23 32<br>23 26 55             | 10           | 107         |                          |             | 117            |                                                      |
| 82  | " 25    | E<br>F                  | 21 37 05<br><i>overtaken by following earthquake.</i>    |              |             |                          |             |                | Distant.                                             |
| 83  | " 25    | E<br>F                  | 22 30 50<br>23 18 -                                      |              |             |                          |             |                | Distant.                                             |
| 84  | " 26    | E<br>L<br>F             | 01 15 45<br>01 19 19<br>01 52 35                         |              |             |                          |             | 2119           | Strong variety made near Tainan.                     |
| 85  | " "     | E<br>L<br>F             | 04 13 10<br>04 18 23<br>05 28 53                         |              |             |                          |             | 2767           | Distant.                                             |
| 86  | " 27    | P<br>L<br>F             | 18 17 48<br>18 18 05<br>18 25 06                         |              |             |                          |             | 126            |                                                      |
| 87  | " 30    | E<br>F                  | 15 53 13<br>15 53 53                                     |              |             |                          |             |                |                                                      |
| 88  | " 31    | E<br>L<br>F             | 17 29 07<br>17 29 39<br>17 31 08                         |              |             |                          |             | 239            |                                                      |
| 89  | " 31    | E<br>F                  | 22 20 33<br>22 24 32                                     |              |             |                          |             |                |                                                      |
| 90  | May 2   | E<br>L<br>MN<br>ME<br>F | 11 19 47<br>11 22 40<br>11 23 12<br>11 23 50<br>11 52 02 | 139<br>104   | 7103        |                          |             | 1852           | Distant. Max. of N component lost by force of shock. |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02.3$   $\lambda=120^{\circ} 30.8$   $h=8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

|     | $T_0$ | $\epsilon$ | $r/T_0$ | V   |
|-----|-------|------------|---------|-----|
| AN: | 16    |            |         | 120 |
| AE: | 30    |            |         | 20  |
| Az: |       |            |         | 20  |

| No. | Date  | Phase     | G. M. T.<br>h m s                            | Period<br>s. | Amplitude<br>AN<br>$\mu$ | AE<br>$\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks  |
|-----|-------|-----------|----------------------------------------------|--------------|--------------------------|-------------|-------------|----------------|----------|
| 91  | May 4 | e F       | 09 25 32<br>10 20 34                         |              |                          |             |             |                | Distant. |
| 92  | " 5   | e F       | 00 37 06<br>01 09 48                         |              |                          |             |             |                | Do.      |
| 93  | " "   | e L F     | 08 44 50<br>08 45 13<br>08 46 47             |              |                          |             |             | 193            |          |
| 94  | " "   | e F       | 20 03 00<br>20 04 53                         |              |                          |             |             |                |          |
| 95  | " 9   | e F       | 13 57 14<br>14 39 52                         |              |                          |             |             |                | Distant. |
| 96  | " 10  | e L F     | 18 50 49<br>18 51 03<br>18 52 36             |              |                          |             |             | 100            |          |
| 97  | " 12  | P L MN F  | 04 33 37<br>04 33 59<br>04 34 00<br>04 36 07 | 18           | 38                       |             |             | 165            |          |
| 98  | " 13  | e F       | 04 30 56<br>04 32 12                         |              |                          |             |             |                |          |
| 99  | " 15  | e SN LN F | 20 26 34<br>20 31 02<br>20 35 47<br>21 00 -  |              |                          |             |             | 4337           | Distant. |
| 100 | " 16  | e LN MN F | 08 08 10<br>08 09 15<br>08 09 26<br>08 28 -  | 48           | 77                       |             |             | 482            |          |
| 101 | " 16  | e F       | 08 49 47<br>09 00 -                          |              |                          |             |             |                |          |
| 102 | " 22  | P L MN F  | 18 05 14<br>18 05 35<br>18 06 22<br>18 23 30 | 65           | 575                      |             |             | 156            |          |
| 103 | " "   | e F       | 18 29 37<br>18 31 57                         |              |                          |             |             |                |          |
| 104 | " "   | e F       | 18 35 12<br>18 38 19                         |              |                          |             |             |                |          |
| 105 | " "   | e L F     | 18 58 48<br>18 59 08<br>19 06 50             |              |                          |             |             | 150            |          |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

|     | $T_0$ | $\epsilon$ | $r/T_0$ | V   |
|-----|-------|------------|---------|-----|
| AN: | 16    |            |         | 120 |
| AE: | 30    |            |         | 20  |
| Az: |       |            |         | 20  |

| No. | Date          | Phase                       | G. M. T.<br>Time<br>h m s                    | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks         |
|-----|---------------|-----------------------------|----------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|-----------------|
| 106 | <i>May 24</i> | $\epsilon$<br>LN<br>MN<br>F | 01 36 11<br>01 36 37<br>01 36 46<br>01 39 47 | 18           | 54          |                          |             | 191            |                 |
| 107 | "             | $\epsilon$<br>L<br>F        | 06 41 04<br>06 41 30<br>06 43 38             |              |             |                          |             | 195            |                 |
| 108 | " 25          | $\epsilon$<br>L<br>F        | 15 15 40<br>15 15 54<br>15 17 50             |              |             |                          |             | 106            |                 |
| 109 | " 26          | $\epsilon$<br>L<br>MN<br>F  | 15 48 29<br>15 48 40<br>15 48 40<br>15 50 30 | 10           | 45          |                          |             | 80             |                 |
| 110 | " 30          | $\epsilon$<br>F             | 12 24 38<br>12 25 38                         |              |             |                          |             |                |                 |
| 111 | "             | $\epsilon$<br>F             | 23 26 58<br>23 28 06                         |              |             |                          |             |                |                 |
| 112 | " 31          | P<br>LN<br>MN<br>F          | 20 14 01<br>20 14 19<br>20 14 21<br>20 16 44 | 12           | 83          |                          |             | 134            |                 |
| 113 | <i>June 1</i> | $\epsilon$<br>F             | 03 08 55<br>03 10 24                         |              |             |                          |             |                |                 |
| 114 | "             | $\epsilon$<br>L<br>F        | 16 19 54<br>16 20 44<br>16 25 02             |              |             |                          |             | 369            |                 |
| 115 | " 2           | P<br>L<br>F                 | 20 16 07<br>20 19 29<br>21 36 31             |              |             |                          |             | 2041           | <i>Distant.</i> |
| 116 | " 3           | $\epsilon$<br>F             | 02 27 12<br>02 28 11                         |              |             |                          |             |                |                 |
| 117 | " 4           | $\epsilon$<br>L<br>MN<br>F  | 09 59 17<br>09 59 31<br>09 59 33<br>10 02 21 | 14           | 65          |                          |             | 104            |                 |
| 118 | " 5           | $\epsilon$<br>L<br>F        | 10 53 56<br>10 54 13<br>10 57 55             |              |             |                          |             | 125            |                 |
| 119 | " 6           | $\epsilon$<br>F             | 22 00 30<br>22 01 54                         |              |             |                          |             |                |                 |



No. 9.

from June 10 to June 23, 1922.

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| $T_0$  | $\epsilon$ | $r/T_0$ | V   |
|--------|------------|---------|-----|
| AN: 16 |            |         | 120 |
| AE: 30 |            |         | 20  |
| Az: 20 |            |         | 20  |

| No. | Date    | Phase                      | G. M. T.<br>Time<br>h m s                                      | Period<br>s.               | Amplitude   |             |             | $\Delta$<br>km | Remarks                                   |
|-----|---------|----------------------------|----------------------------------------------------------------|----------------------------|-------------|-------------|-------------|----------------|-------------------------------------------|
|     |         |                            |                                                                |                            | AN<br>$\mu$ | AE<br>$\mu$ | Az<br>$\mu$ |                |                                           |
| 120 | June 10 | $\epsilon$<br>L<br>F       | 05 04 14<br>05 04 25<br>05 06 08                               |                            |             |             |             | 79             |                                           |
| 121 | " 11    | $\epsilon$<br>L<br>F       | 11 57 30<br>11 57 52<br>11 59 51                               |                            |             |             |             | 164            |                                           |
| 122 | " "     | $\epsilon$<br>L<br>F       | 12 51 37<br>12 52 01<br>12 54 08                               |                            |             |             |             |                |                                           |
| 123 | " "     | $\epsilon$<br>L<br>MN<br>F | 17 24 22<br>17 24 53<br>17 26 12<br>17 29 09                   | 1.9                        | 57          |             |             | 228            |                                           |
| 124 | " "     | $\epsilon$<br>F            | 20 36 09<br>20 38 25                                           |                            |             |             |             |                |                                           |
| 125 | " 13    | $\epsilon$<br>L<br>F       | 06 10 17<br>06 10 27<br>06 11 36                               |                            |             |             |             | 73             |                                           |
| 126 | " 17    | $\epsilon$<br>L<br>MN<br>F | 02 55 00<br>02 55 06<br>02 55 07<br>02 56 39                   | 1.4                        | 90          |             |             | 45             |                                           |
| 127 | " 22    | P<br>L<br>MN<br>ME<br>F    | 00 01 15<br>00 01 17<br>lost by force.<br>00 01 37<br>00 14 35 | 1.5                        |             | 340         |             | 89             | Direction of initial<br>displacement S19E |
| 128 | " "     | P<br>L<br>F                | 16 30 55<br>16 31 02<br>16 32 48                               |                            |             |             |             | 50             |                                           |
| 129 | " "     | P<br>L<br>F                | 16 33 48<br>16 33 55<br>16 35 16                               |                            |             |             |             | 50             |                                           |
| 130 | " "     | P<br>L<br>MN<br>ME<br>F    | 16 49 11<br>16 49 18<br>16 49 23<br>16 49 19<br>16 58 33       | Run out, Max. lost.<br>1.1 |             |             |             | 50             | 375                                       |
| 131 | " "     | P<br>L<br>F                | 17 10 24<br>17 10 31<br>17 12 40                               |                            |             |             |             |                |                                           |
| 132 | " 23    | $\epsilon$<br>F            | 04 31 54<br>04 32 50                                           |                            |             |             |             | 50             |                                           |



大正11年8月22日

震第112号

No. 10

from June 23 to July 13, 1922.

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02' 3$   $\lambda = 120^{\circ} 30' 8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.        | $\epsilon$ | $r/T$ | V   |
|-----------|------------|-------|-----|
| AN: 8     |            |       |     |
| AE: 30 25 |            |       | 120 |
| Az: 20    |            |       | 20  |
|           |            |       | 20  |

| No. | Date    | Phase                   | G. M. T.<br>h m s                            | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks  |
|-----|---------|-------------------------|----------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|----------|
| 133 | June 23 | e<br>L<br>F             | 20 10 44<br>20 10 53<br>20 12 19             |              |             |                          |             | 68             |          |
| 134 | " 24    | P<br>Le<br>MN<br>F      | 07 15 36<br>07 15 41<br>07 18 18             | 07.3         | 200?        |                          |             | 39             |          |
| 135 | " 26    | P<br>L<br>F             | 15 43 51<br>15 43 58<br>15 46 26             |              |             |                          |             | 50             |          |
| 136 | " 27    | e<br>L<br>F             | 14 34 27<br>14 37 44<br>15 37 30             |              |             |                          |             | 2009           | Distant. |
| 137 | " 30    | e<br>F                  | 07 46 25<br>07 47 25                         |              |             |                          |             |                |          |
| 138 | July 2  | e<br>L<br>F             | 10 17 14<br>10 17 36<br>10 19 49             |              |             |                          |             | 160            |          |
| 139 | " "     | P<br>L<br>MN<br>ME<br>F | 13 30 13<br>13 30 32<br>13 30 41<br>13 43 49 | 2<br>10      | ?           | 215                      |             | 143            |          |
| 140 | " "     | e<br>L<br>F             | 13 54 52<br>14 03 01<br>15 13 00             |              |             |                          |             | 4272           | Distant. |
| 141 | " 3     | e<br>F                  | 06 01 -<br>06 20 -                           |              |             |                          |             |                | Do.      |
| 142 | " "     | e<br>LN<br>F            | 20 03 15<br>20 03 28<br>20 05 36             |              |             |                          |             | 93             |          |
| 143 | " 9     | e<br>LN<br>F            | 09 48 05<br>09 48 37<br>09 50 56             |              |             |                          |             | 240            |          |
| 144 | " 10    | e<br>F                  | 08 05 32<br>08 07 21                         |              |             |                          |             |                |          |
| 145 | " 13    | P<br>SE<br>LE<br>F      | 05 02 30<br>05 05 51<br>05 08 21<br>06 10 -  |              |             |                          |             | 3016           | Distant. |
| 146 | " "     | e<br>LN<br>MN<br>F      | 21 11 13<br>21 11 44<br>21 12 22<br>21 16 19 | 15           | 44          |                          |             | 232            |          |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.       | $\epsilon$ | $r/T.$ | V   |
|----------|------------|--------|-----|
| AN: 8    |            |        |     |
| AE: 30.5 |            |        | 120 |
| AZ:      |            |        | 20  |

| No. | Date    | Phase              | G. M. T.<br>Time<br>h m s                    | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks                           |
|-----|---------|--------------------|----------------------------------------------|--------------|-------------|-------------|-------------|----------------|-----------------------------------|
|     |         |                    |                                              |              | AN<br>$\mu$ | AE<br>$\mu$ | Az<br>$\mu$ |                |                                   |
| 147 | July 15 | e<br>F             | 03 53 58<br>03 54 55                         |              |             |             |             |                |                                   |
| 148 | "       | e<br>F             | 17 39 05<br>17 39 45                         |              |             |             |             |                |                                   |
| 149 | " 19    | P<br>LE<br>ME<br>F | 12 55 08<br>12 55 19<br>12 55 19<br>13 11 20 | 09           |             | 205         |             | 79             |                                   |
| 150 | "       | e<br>F             | 12 59 06<br>?                                |              |             |             |             |                |                                   |
| 151 | "       | e<br>LN<br>MN<br>F | 13 17 57<br>13 18 09<br>13 18 10<br>13 21 24 | 09           | 52          |             |             | 89             | End overtaken by following quake. |
| 152 | "       | e<br>F             | 13 21 59<br>13 22 39                         |              |             |             |             |                |                                   |
| 153 | "       | e<br>F             | 15 58 07<br>15 58 31                         |              |             |             |             |                |                                   |
| 154 | "       | e<br>F             | 17 27 37<br>17 28 45                         |              |             |             |             |                |                                   |
| 155 | "       | e<br>F             | 20 00 29<br>20 01 49                         |              |             |             |             |                |                                   |
| 156 | "       | e<br>F             | 20 28 32<br>20 29 52                         |              |             |             |             |                |                                   |
| 157 | "       | e<br>F             | 21 00 32<br>21 01 27                         |              |             |             |             |                |                                   |
| 158 | " 20    | e<br>L<br>F        | 01 15 12<br>01 15 24<br>01 18 00             |              |             |             |             | 85             |                                   |
| 159 | "       | e<br>F             | 08 38 20<br>08 40 40                         |              |             |             |             |                |                                   |
| 160 | "       | e<br>F             | 08 55 19<br>08 56 01                         |              |             |             |             |                |                                   |
| 161 | "       | e<br>F             | 10 21 38<br>10 23 24                         |              |             |             |             |                |                                   |
| 162 | "       | e<br>F             | 11 12 56<br>11 14 44                         |              |             |             |             |                |                                   |
| 163 | "       | e<br>F             | 12 59 11<br>13 01 22                         |              |             |             |             |                |                                   |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02.3$   $\lambda=120^{\circ} 30.8$   $h=8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.        | $\epsilon$ | $r/T_0$ | V   |
|-----------|------------|---------|-----|
| AN: 8     |            |         | 120 |
| AE: 30.25 |            |         | 20  |
| Az:       |            |         | 20  |

| No. | Date    | Phase  | G.M.T.<br>Time<br>h m s          | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks |
|-----|---------|--------|----------------------------------|--------------|-------------|-------------|-------------|----------------|---------|
|     |         |        |                                  |              | AN<br>$\mu$ | AE<br>$\mu$ | Az<br>$\mu$ |                |         |
| 164 | July 20 | e F    | 16 43 27<br>16 44 42             |              |             |             |             |                |         |
| 165 | "       | e F    | 20 41 32<br>20 42 47             |              |             |             |             |                |         |
| 166 | "       | e F    | 20 45 56<br>20 47 47             |              |             |             |             |                |         |
| 167 | " 21    | e F    | 00 47 00<br>00 47 44             |              |             |             |             |                |         |
| 168 | "       | e F    | 01 48 42<br>01 50 14             |              |             |             |             |                |         |
| 169 | "       | e F    | 08 02 01<br>08 03 48             |              |             |             |             |                |         |
| 170 | "       | e F    | 08 03 48<br>08 05 31             |              |             |             |             |                |         |
| 171 | "       | e F    | 12 40 00<br>12 41 59             |              |             |             |             |                |         |
| 172 | "       | e F    | 23 08 46<br>23 11 46             |              |             |             |             |                |         |
| 173 | "       | e F    | 23 34 50<br>23 35 59             |              |             |             |             |                |         |
| 174 | " 23    | e F    | 12 25 30<br>12 26 59             |              |             |             |             |                |         |
| 175 | "       | e F    | 15 42 00<br>15 42 54             |              |             |             |             |                |         |
| 176 | " 24    | e LN F | 06 34 21<br>06 34 35             |              |             |             |             |                |         |
| 177 | "       | e F    | 06 35 18<br>06 36 54             |              |             |             |             |                |         |
| 178 | "       | e F    | 13 55 42<br>13 57 16             |              |             |             |             |                |         |
| 179 | "       | e LN F | 16 22 30<br>16 22 48<br>16 24 21 |              |             |             |             | 131            |         |
| 180 | " 25    | e LN F | 04 07 45<br>04 08 19<br>04 11 01 |              |             |             |             | 249            |         |

End overtake by  
following grade



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.        | $\varepsilon$ | r/T. | V   |
|-----------|---------------|------|-----|
| AN: 8     |               |      | 120 |
| AE: 30.25 |               |      | 20  |
| Az: 20    |               |      | 20  |

| No. | Date    | Phase              | Time<br>h m s                                | Period<br>s. | AN<br>$\mu$ | Amplitude   |             | $\Delta$<br>km | Remarks |
|-----|---------|--------------------|----------------------------------------------|--------------|-------------|-------------|-------------|----------------|---------|
|     |         |                    |                                              |              |             | AE<br>$\mu$ | Az<br>$\mu$ |                |         |
| 181 | July 25 | e<br>LN<br>MN<br>F | 07 48 54<br>07 49 39<br>07 49 49<br>07 52 17 | 12           | 58          |             |             | 335            |         |
| 182 | "       | e<br>F             | 15 29 20<br>15 33 17                         |              |             |             |             |                |         |
| 183 | " 26    | e<br>F             | 08 54 15<br>08 54 33                         |              |             |             |             |                |         |
| 184 | " 27    | e<br>F             | 05 30 06<br>05 30 47                         |              |             |             |             |                |         |
| 185 | "       | P<br>F             | 22 16 31<br>22 17 36                         |              |             |             |             |                |         |
| 186 | " 28    | e<br>F             | 21 31 31<br>21 32 33                         |              |             |             |             |                |         |
| 187 | " 30    | e<br>F             | 09 27 33<br>09 29 40                         |              |             |             |             |                |         |
| 188 | "       | P<br>LN<br>F       | 11 06 07<br>11 06 16<br>11 09 12             |              |             |             |             | 67             |         |
| 189 | " 31    | e<br>F             | 22 02 29<br>22 03 47                         |              |             |             |             |                |         |
| 190 | Aug. 1  | e<br>F             | 03 12 30<br>03 13 28                         |              |             |             |             |                |         |
| 191 | "       | e<br>F             | 13 46 21<br>13 48 00                         |              |             |             |             |                |         |
| 192 | "       | e<br>F             | 14 00 22<br>14 01 58                         |              |             |             |             |                |         |
| 193 | "       | e<br>F             | 15 32 48<br>15 33 23                         |              |             |             |             |                |         |
| 194 | "       | e<br>F             | 19 29 39<br>19 30 54                         |              |             |             |             |                |         |
| 195 | " 5     | e<br>F             | 15 48 26<br>15 50 35                         |              |             |             |             |                |         |
| 196 | "       | e<br>F             | 17 30 29<br>17 32 22                         |              |             |             |             |                |         |



No. 14.

from Aug. 11 to Aug. 26 1922.

(甲 第四 號)

# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\phi = 25^\circ$   $\lambda = 121^\circ 30.8'$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum (mass 16 kg.)

T.  $\epsilon$  r/T. V  
 AN: 16  
 AE: 30  
 AZ: 20

| No. | Date    | Phase             | G. M. T.<br>h m s                        | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | AZ<br>$\mu$ | $\Delta$<br>km | Remarks  |
|-----|---------|-------------------|------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|----------|
| 197 | Aug. 11 | e<br>F            | 3 31 14<br>3 32 26                       |              |             |                          |             |                |          |
| 198 | " 13    | e<br>F            | 0 32 -<br>1 50 -                         |              |             |                          |             |                |          |
| 199 | " 14    | e<br>F            | 11 01 22<br>11 02 23                     |              |             |                          |             |                |          |
| 200 | " "     | e<br>F            | 13 16 59<br>13 18 32                     |              |             |                          |             |                |          |
| 201 | " "     | e<br>F            | 23 17 17<br>23 18 38                     |              |             |                          |             |                |          |
| 202 | " "     | e<br>F            | 23 42 57<br>23 44 08                     |              |             |                          |             |                |          |
| 203 | " 15    | e<br>L<br>MN<br>F | 6 53 46<br>6 53 57<br>6 53 58<br>6 53 40 | 15           | 23          |                          |             |                |          |
| 204 | " 16    | e<br>F            | 16 09 19<br>16 58 15                     |              |             |                          |             |                | Distant. |
| 205 | " 20    | P<br>L<br>MN<br>F | 3 15 53<br>3 16 26<br>3 16 31<br>3 28 28 | 20           | 252         |                          |             |                |          |
| 206 | " "     | e<br>F            | 7 12 02<br>7 14 03                       |              |             |                          |             |                |          |
| 207 | " "     | e<br>F            | 16 36 28<br>16 37 34                     |              |             |                          |             |                |          |
| 208 | " "     | e<br>F            | 20 37 48<br>20 39 28                     |              |             |                          |             |                |          |
| 209 | " 22    | e<br>F            | 7 19 04<br>7 20 26                       |              |             |                          |             |                |          |
| 210 | " "     | e<br>F            | 16 10 53<br>16 12 30                     |              |             |                          |             |                |          |
| 211 | " 25    | e<br>L<br>F       | 9 24 25<br>9 24 37<br>9 25 57            |              |             |                          |             |                |          |
| 212 | " "     | e<br>F            | 19 45 10<br>20 13 -                      |              |             |                          |             |                | Distant. |
| 213 | " 26    | e<br>F            | 8 44 38<br>8 45 00                       |              |             |                          |             |                |          |



No. 15.

from Aug. 29 to Sept. 17, 1922.

(甲 第四 號)

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\varphi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.  |    | $\epsilon$ | $r/T$ . | V   |
|-----|----|------------|---------|-----|
| AN: | 16 |            |         | 120 |
| AE: | 30 |            |         | 20  |
| Az: |    |            |         |     |

| No.  | Date    | Phase       | Time<br>h m s<br>G.M.T.          | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks                                                                                   |
|------|---------|-------------|----------------------------------|--------------|-------------|-------------|-------------|----------------|-------------------------------------------------------------------------------------------|
|      |         |             |                                  |              | AN<br>$\mu$ | AE<br>$\mu$ | AZ<br>$\mu$ |                |                                                                                           |
| 214  | Aug. 29 | L<br>F      | 17 04 07<br>17 07 43<br>17 49 40 |              |             |             |             |                | Distant.                                                                                  |
| 215  | " 30    | L<br>F      | 11 36 04<br>12 19 00             |              |             |             |             |                | Ditto.                                                                                    |
| 216  | " 31    | L<br>F      | 4 13 27<br>4 13 43<br>4 15 52    |              |             |             |             |                | Felt strongly in Formosa.<br>Land M lost by the force<br>of the shock.                    |
| 217  | Sept. 1 | P<br>F      | 19 16 21<br>20 44 32             |              |             |             |             |                | Felt weakly in N Formosa.<br>Max. lost by the force of<br>the shock.                      |
| 333  | " "     | P<br>L<br>F | 17 54 04<br>17 54 15<br>18 04 00 |              |             |             |             |                | Distant.                                                                                  |
| 494  | " 11    | P<br>F      | 14 54 21<br>15 20 -              |              |             |             |             |                | Felt in N Formosa.<br>L, M and F lost by the<br>force of the shock.                       |
| 514  | " 14    | P           | 19 31 48                         |              |             |             |             |                | Felt in N Formosa.<br>Max. lost by the force.<br>End mistaken by following<br>earthquake. |
| 1005 | " 16    | P<br>L      | 22 42 33<br>22 44 55             |              |             |             |             |                | Felt in N Formosa.<br>Max. lost by the force<br>of the shock.                             |
| 1069 | " 17    | P<br>L<br>F | 7 22 38<br>7 22 53<br>7 39 00    |              |             |             |             |                | Ditto.                                                                                    |
| 1073 | " "     | P<br>F      | 7 53 11<br>8 07 00               |              |             |             |             |                | Ditto. End mistaken by<br>following earthquake.                                           |
| 1095 | " "     | P           | 9 59 36                          |              |             |             |             |                | Ditto.                                                                                    |
| 1107 | " "     | P<br>F      | 10 59 52<br>11 05 00             |              |             |             |             |                | Ditto.                                                                                    |

No. 218-332 = Minor after shocks are omitted.

No. 334-493 = Minor after shocks of No. 217 omitted.

No. 495-513 = Minor after shocks of No. 217 are omitted.

No. 515-1004 = Minor after shocks of No. 217 are omitted.

No. 1006-1068 = Minor after shocks of No. 217 are omitted.

No. 1070-1072 = Minor after shocks of No. 217 are omitted.

No. 1074-1094 = Minor after shocks of No. 217 are omitted.

No. 1096-1106 = Minor after shocks of No. 217 are omitted.

No. 1108-1204 = Minor after shocks of No. 217 are omitted.



# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\phi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | r/T. | V   |
|--------|------------|------|-----|
| AN: 16 |            |      | 120 |
| AE: 30 |            |      | 20  |
| AZ:    |            |      |     |

| No.  | Date     | Phase             | G. M. Time<br>h m s                          | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | AZ<br>$\mu$ | $\Delta$<br>km | Remarks                                                                 |
|------|----------|-------------------|----------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|-------------------------------------------------------------------------|
| 1215 | Sept. 17 | P<br>L<br>ME      | 21 59 18<br>21 59 28<br>21 59 35             | 17           |             | 493                      |             |                | Felt in N Formosa. End overtaken by following quake at 22h 05m 25s.     |
| 1253 | " 18     | P<br>L<br>ME      | 6 20 00<br>6 20 10<br>6 20 16                | 12           |             | 1338                     |             |                | Ditto. Max. lost by force. End overtaken by following quake at 14h 28m. |
| 1751 | " 28     | P<br>L            | 22 03 42<br>22 03 54                         |              |             |                          |             |                | Ditto. Max. lost by force. End overtaken by following quake at 22h 09m. |
| 1912 | Oct. 5   | P<br>F            | 5 23 -<br>6 00 -                             |              |             |                          |             |                | Distant.                                                                |
| 1925 | " "      | P<br>L<br>ME<br>F | 17 12 12<br>17 12 21<br>17 12 28<br>17 20 00 | 13           |             | 83                       |             |                | Felt in N Formosa. Max. lost by the force of shock.                     |
| 1997 | " 11     | P<br>L<br>F       | 12 34 10<br>12 41 00<br>13 04 10             |              |             |                          |             |                | Distant.                                                                |
| 1999 | " "      | P<br>F            | 15 22 -<br>16 52 -                           |              |             |                          |             |                | Ditto.                                                                  |
| 2033 | " 14     | P<br>L<br>F       | 3 56 40<br>3 56 53<br>4 09 00                |              |             |                          |             |                | Felt in N Formosa. Max. lost by the force of shock.                     |
| 2063 | " "      | P<br>L<br>F       | 23 47 05<br>23 47 17<br>0 20 00              |              |             |                          |             |                | Ditto.                                                                  |
| 2081 | " "      | P<br>ME           | 0 40 54<br>0 41 27                           | 15           |             | 725                      |             |                | Ditto. End overtaken by following quake at 0h 42m.                      |



# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\varepsilon$ | $r/T$ . | V   |
|--------|---------------|---------|-----|
| AN: 16 |               |         | 120 |
| AE: 30 |               |         | 20  |
| Az:    |               |         | 20- |

| No.  | Date   | Phase          | G. M. T.<br>Time<br>h m s       | Period<br>s. | Amplitude<br>AN $\mu$ AE $\mu$ Az $\mu$ | $\Delta$<br>km | Remarks                                                     |
|------|--------|----------------|---------------------------------|--------------|-----------------------------------------|----------------|-------------------------------------------------------------|
| 25   | Oct. 5 | P <sub>L</sub> | 17 12 12<br>17 12 20            |              |                                         |                | No. 1926-1951 no sense.                                     |
| 52   | " 8    | P <sub>L</sub> | 2 58 16<br>2 58 28              |              |                                         |                | No. 1953-1965 no sense.                                     |
| 66   | " 9    | P <sub>L</sub> | 5 48 07<br>5 48 17              |              |                                         |                | No. 1967-1980 no sense.                                     |
| 189  | " 10   | P <sub>L</sub> | 22 06 05<br>22 06 16            |              |                                         |                | No. 1980-1995 no sense.                                     |
| 196  | " 11   | P <sub>L</sub> | 11 45 56<br>11 46 13            |              |                                         |                | No. 1997 no sense.                                          |
| 1998 | " 12   | P              | 12 46 06                        |              |                                         |                |                                                             |
| 1999 | " "    | e              | 15 31 15                        |              |                                         |                | Disturbed. No. 2000-2009 no sense.                          |
| 2110 | " "    | P <sub>L</sub> | 16 46 45<br>16 46 54            |              |                                         |                | No. 2011-2032 no sense.                                     |
| 2033 | " 14   | P <sub>L</sub> | 3 56 40<br>3 56 53              |              |                                         |                | The pendulum thrown out, N comp. at P, E comp. N1.          |
| 2034 | " "    | P              | 3 58 10                         |              |                                         |                | Merged in the preceding grade. No. 2035-2044 no sense.      |
| 2045 | " "    | P <sub>L</sub> | 7 39 05<br>7 39 15              |              |                                         |                | No. 2046-2062 no sense.                                     |
| 2063 | " "    | P <sub>L</sub> | 23 45 07<br>23 45 19<br>0 20 00 |              |                                         |                | The pens off sheet at N1.                                   |
| 2064 | " "    | P <sub>L</sub> | 23 49 25                        |              |                                         |                | } Merged in the preceding grade.<br>No. 2066-2080 no sense. |
| 2065 | " "    | P <sub>L</sub> | 23 50 08                        |              |                                         |                |                                                             |
| 2081 | " 15   | P              | 0 40 54                         |              |                                         |                | No. 2082-2085 no sense.                                     |
| 2086 | " "    | P <sub>L</sub> | 1 00 50<br>1 01 02              |              |                                         |                | No. 2087-2093 no sense.                                     |
| 2094 | " "    | P <sub>L</sub> | 1 41 40<br>1 41 52              |              |                                         |                | No. 2095-2122 no sense.                                     |
| 2123 | " "    | P <sub>L</sub> | 8 24 20<br>8 24 31              |              |                                         |                | No. 2124-2128 no sense.                                     |
| 2129 | " "    | P <sub>L</sub> | 9 47 42<br>9 47 52              |              |                                         |                | No. 2130-2138 no sense.                                     |
| 2139 | " "    | P              | 12 08 49                        |              |                                         |                | No. 2140-2184 no sense.                                     |
| 2185 | " 17   | P <sub>L</sub> | 3 17 05<br>3 17 16              |              |                                         |                | No. 2186-2206 no sense.                                     |



No.

from Oct. 17 to Dec. 7 1922.

# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | $r/T$ . | V   |
|--------|------------|---------|-----|
| AN: 16 |            |         |     |
| AE: 30 |            |         | 120 |
| Az: 20 |            |         | 20  |

| No.  | Date    | Phase                   | G. M. T.<br>Time<br>h m s                               | Period<br>s.                         | Amplitude<br>AN $\mu$ AE $\mu$ Az $\mu$ | $\Delta$<br>km | Remarks                                                                                 |
|------|---------|-------------------------|---------------------------------------------------------|--------------------------------------|-----------------------------------------|----------------|-----------------------------------------------------------------------------------------|
| 2208 | Oct. 17 | P<br>F                  | 6 43 03<br>7 16 03                                      |                                      |                                         |                | Distant. No. 218-2207<br>no sense.                                                      |
| 2209 | " 18    | P<br>L                  | 3 00 07<br>3 00 18                                      |                                      |                                         |                | No. 2209-2272 no sense.                                                                 |
| 2273 | " 24    | P                       | 21 27 20                                                |                                      |                                         |                | Distant. No. 2274-<br>2282 no sense.                                                    |
| 2283 | " 27    | P<br>L<br>ME<br>F       | 14 23 19<br>14 23 31<br>14 23 44<br>15 43 00            | 09                                   | 1900                                    |                | Merged in the preceding<br>quake. No. 2285-2317<br>no sense.<br>No. 2319-2338 no sense. |
| 2284 | " "     | P                       | 14 48 05                                                |                                      |                                         |                | No. 2340-2383 no sense.                                                                 |
| 2318 | " 31    | P<br>L                  | 5 54 35<br>5 54 45                                      |                                      |                                         |                | Chilean earthquake.<br>No. 2385-2416 no sense.                                          |
| 2339 | Nov. 3  | P<br>L                  | 15 02 53<br>15 03 11                                    |                                      |                                         |                | No. 2418-2445 no sense.                                                                 |
| 2384 | " 11    | P<br>S<br>ME<br>F       | 4 52 57<br>5 04 51<br>5 18 33<br>5 13 56<br>7 20 -      | 290                                  | 330                                     |                | No. 2447-2452 no sense.                                                                 |
| 2417 | " 18    | P<br>L<br>MN<br>ME<br>F | 10 56 52<br>12 57 03<br>13 57 05<br>12 57 07<br>19 09 - | <i>T. - pen off the paper.</i><br>12 | 2058                                    |                | No. 2454-2462 no sense.                                                                 |
| 2446 | " 25    | P<br>L<br>MN<br>F       | 13 38 35<br>13 38 44<br>13 39 20<br>13 40 36            |                                      |                                         |                | No. 2464-2473 no sense.                                                                 |
| 2453 | " 26    | P<br>L<br>F             | 21 06 18<br>21 06 28<br>21 09 59                        |                                      |                                         |                | MN, & ME, lost by the<br>force of shock.<br>No. 2475-2570 no sense.                     |
| 2463 | " 28    | P<br>F                  | 13 08 06<br>13 10 49                                    |                                      |                                         |                | No. 2572- <del>2578</del> no sense.                                                     |
| 2474 | Dec. 2  | P<br>L<br>ME<br>MN<br>F | 3 46 42<br>3 46 52<br>3 47 28<br>3 51 34<br>4 00 49     | 09<br>77                             | 642                                     | 1671           |                                                                                         |
| 2511 | " 7     | P<br>L<br>MN<br>F       | 5 48 05<br>5 48 14<br>5 48 38<br>5 49 51                | 12                                   | 126                                     |                |                                                                                         |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | $r/T$ . | V   |
|--------|------------|---------|-----|
| AN: 16 |            |         |     |
| AE: 30 |            |         | 120 |
| Az: 20 |            |         | 20  |

| No.  | Date   | Phase                                             | G. M. T.<br>h m s                                                             | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks                                                                                              |
|------|--------|---------------------------------------------------|-------------------------------------------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|------------------------------------------------------------------------------------------------------|
| 2513 | Dec. 7 | P <sub>2</sub><br>L <sub>2</sub><br>ME<br>MN<br>F | 16 53 03<br>16 56 26<br>16 57 12<br>16 57 30<br>17 38 -                       | 216<br>176   | 833         | 857                      |             |                | Off paper at MN. Resident<br>seismograph at Shima-<br>bara near Nagasaki.<br>No. 2514-2518 no sense. |
| 2519 | Dec. 8 | P <sub>2</sub><br>F                               | 2 10 -<br>2 37 -                                                              |              |             |                          |             |                | Distance. No. 2520-<br>2521 no sense.                                                                |
| 2522 | "      | P<br>L<br>MN<br>F                                 | 19 02 48<br>19 02 57<br>19 03 00<br>19 06 29                                  | 10           | 111         |                          |             |                | No. 2523-2524 no sense.                                                                              |
| 2525 | " 9    | P<br>L<br>MN<br>F                                 | 2 42 41<br>2 42 51<br>2 42 58<br>2 54 16                                      | ?            | 300         |                          |             |                | No. 2526-2529 no sense.                                                                              |
| 2530 | " 11   | P<br>L<br>ME<br>MN<br>F                           | 5 31 50<br>5 31 59<br>5 32 04<br>5 32 07<br>5 38 55                           | 14<br>10     | 261         | 248                      |             |                | No. 2532-2542 no sense.                                                                              |
| 2531 | "      | P<br>L<br>MN<br>F                                 | 12 27 33<br>12 27 42<br>12 27 46<br>12 29 38                                  | 8            | 57          |                          |             |                |                                                                                                      |
| 2543 | " 13   | P<br>L<br>MN<br>F                                 | 11 26 25<br>11 26 32<br>11 26 32<br>11 28 33                                  | 07           | 125         |                          |             |                | No. 2545-2557 no sense.                                                                              |
| 2544 | "      | P<br>L<br>ME<br>MN<br>F                           | 14 04 22<br>14 04 14<br>14 04 20<br>14 04 24<br>Overtaken by following quake. | 20<br>?      | 925         | 1038                     |             |                | No. 2559-2561 no sense.                                                                              |
| 2558 | " 15   | P<br>L<br>MN<br>ME<br>F                           | 16 43 30<br>16 43 39<br>16 43 40<br>16 43 41<br>16 47 22                      | 07<br>10     | 142         | 108                      |             |                | No. 2563-2575 no sense.                                                                              |
| 2562 | " 16   | P<br>L<br>MN<br>F                                 | 20 29 18<br>20 29 30<br>20 29 30<br>20 31 29                                  | 09           | 93          |                          |             |                | Distance.<br>No. 2597 no sense.                                                                      |
| 2576 | " 31   | L<br>F                                            | 7 32 23<br>7 36 44<br>8 04 00                                                 |              |             |                          |             |                |                                                                                                      |



# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\phi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.  |    | $\epsilon$ |  | $r/T$ . |  | V   |
|-----|----|------------|--|---------|--|-----|
| AN: | 16 |            |  |         |  | 120 |
| AE: | 30 |            |  |         |  | 20  |
| Az: |    |            |  |         |  |     |

| No.  | Date    | Phase                   | G.M.T.                                                  |                  | Period<br>s. | Amplitude |             |  | AZ<br>μ | Δ<br>km | Remarks                                                                                  |
|------|---------|-------------------------|---------------------------------------------------------|------------------|--------------|-----------|-------------|--|---------|---------|------------------------------------------------------------------------------------------|
|      |         |                         | h                                                       | m s              |              | AN<br>μ   | AE<br>μ     |  |         |         |                                                                                          |
| 2188 | Oct. 17 | P<br>F                  | 6                                                       | 43 03<br>7 16 00 |              |           |             |  |         |         | Distant.                                                                                 |
| 2272 | " 24    | P<br>S<br>L<br>F        | No. 2187-2271 = minor aftershocks are omitted.          |                  |              |           |             |  |         |         | Ditto.                                                                                   |
| 2282 | " 27    | P<br>L<br>ME<br>F       | 14 23 19<br>14 23 31<br>14 23 44<br>15 43 00            |                  | 09           |           | 1900        |  |         |         | Felt in N Formosa. Max<br>of N component lost by<br>the force of shock.                  |
| 2383 | Nov. 11 | P<br>S<br>L<br>F        | 04 52 57<br>05 04 51<br>05 18 33<br>07 20 -             |                  |              |           |             |  |         |         | Distant.                                                                                 |
| 2417 | " 18    | P<br>L<br>MN<br>ME<br>F | 18 56 52<br>18 57 03<br>18 57 05<br>18 57 07<br>19 09 - |                  | 12           |           |             |  |         |         | Felt in N Formosa.                                                                       |
| 2474 | Dec. 2  | P<br>L<br>ME<br>MN<br>F | 3 47 53<br>3 48 03<br>3 48 39<br>3 52 45<br>4 02 -      |                  | 09<br>77     |           | 1671<br>642 |  |         |         | Felt in N Formosa.<br>Pans of N and E components<br>thrown out by the force<br>of shock. |
| 2573 | " 7     | P<br>L<br>ME<br>MN<br>F | 16 56 03<br>16 56 26<br>16 57 12<br>16 57 30<br>17 30 - |                  | 216<br>176   |           | 257<br>233  |  |         |         | Distant. Noisier with<br>quake near Nagasaki,<br>Japan.                                  |
| 2579 | " 8     | P<br>F                  | 2 10 00<br>2 37 -                                       |                  |              |           |             |  |         |         | Distant.                                                                                 |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02' .3$   $\lambda=121^{\circ} 30' .8$   $h=8.0$  m. Underground; alluvial.

Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No.              | Date         | Phase             | G. M. T.<br>h m s                         | Period<br>s. | Amplitude<br>A <sub>E</sub> $\mu$ | A <sub>N</sub> $\mu$ | A <sub>Z</sub> $\mu$ | $\Delta$<br>km | Remarks          |
|------------------|--------------|-------------------|-------------------------------------------|--------------|-----------------------------------|----------------------|----------------------|----------------|------------------|
| (115)<br>116     | *<br>Feb. 4. | P<br>L<br>MN<br>F | 14 37 05<br>" 37 07<br>" 37 36<br>" 42 15 |              |                                   | 73                   |                      | 160            | Off NE. Formosa. |
| 117              | " 4.         | P<br>F            | 20 18 50<br>" 20 00                       |              |                                   |                      |                      |                |                  |
| 118              | " 5.         | P<br>L<br>MN<br>F | 22 15 25<br>" 15 33<br>" 15 34<br>" 16 40 |              |                                   | 27                   |                      | 57             | N. Formosa.      |
| 119              | " 5.         | P<br>F            | 22 41 25<br>" 42 23                       |              |                                   |                      |                      |                |                  |
| 120              | " 6.         | P<br>F            | 07 30 08<br>" 32 29                       |              |                                   |                      |                      |                |                  |
| (121-125)<br>126 | *<br>" 8     | P<br>F            | 08 21 28<br>" 24 50                       |              |                                   |                      |                      |                | Distant.         |
| (127)<br>128     | *<br>" 9     | P<br>L<br>F       | 09 16 10<br>" 16 19<br>" 17 16            |              |                                   |                      |                      | 64             | N. Formosa.      |
| (129-131)<br>132 | *<br>" 10    | P<br>L<br>F       | 01 58 09<br>" 58 18<br>" 59 04            |              |                                   |                      |                      | 64             | Do.              |
| (133)<br>134     | *<br>" 11    | P<br>L<br>MN<br>F | 21 30 24<br>" 30 33<br>" 30 36<br>" 31 55 |              |                                   | 33                   |                      | 64             | Do.              |
| 135              | " 11         | P<br>F            | 23 13 19<br>" 35 30                       |              |                                   |                      |                      |                | Distant.         |
| (136-146)<br>147 | " 13         | P<br>L<br>MN<br>F | 12 10 14<br>" 10 26<br>" 10 27<br>" 11 36 |              |                                   | 93                   |                      | 89             |                  |
| (148-150)<br>151 | *<br>" 15    | P<br>L<br>MN<br>F | 03 44 34<br>" 44 50<br>" 44 51<br>" 46 49 |              |                                   | 34                   |                      | 117            |                  |

\* Minor shocks are omitted.



## TAIHKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\varphi=25^{\circ} 02' .3$   $\lambda=121^{\circ} 30' .8$   $h=8.0$  m. Underground; alluvial.  
 Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No.         | Date    | Phase                        | G. M. T.<br>Time<br>h m s                                        | Period<br>s. | AE<br>$\mu$ | Amplitude<br>AN $\mu$ |     | Az<br>$\mu$ | $\Delta$<br>km | Remarks                     |
|-------------|---------|------------------------------|------------------------------------------------------------------|--------------|-------------|-----------------------|-----|-------------|----------------|-----------------------------|
| (152-158) * |         |                              |                                                                  |              |             |                       |     |             |                |                             |
| 159         | Feb. 20 | P<br>F                       | 00 48 50<br>" 49 30                                              |              |             |                       |     |             |                | N. Formosa.                 |
| (160-162) * |         |                              |                                                                  |              |             |                       |     |             |                |                             |
| 163         | " 23    | P<br>F                       | 05 57 30<br>06 23 07                                             |              |             |                       |     |             |                | Distant.                    |
| 164         | " 23    | P<br>L<br>MN<br>F            | 14 14 45<br>" 14 55<br>" 14 57<br>" 17 06                        |              |             |                       | 63  |             | 71             |                             |
| (165-166) * |         |                              |                                                                  |              |             |                       |     |             |                |                             |
| 167         | " 24    | P<br>L<br>ME<br>MN<br>C<br>F | 07 48 45<br>" 58 25<br>08 00 40<br>" 06 28<br>" 16 48<br>9 39 55 | 16.4<br>16.8 | 4100        |                       | 754 |             | 4546           | Distant.                    |
| 168         | " 24    | P<br>L<br>F                  | 21 36 06<br>" 36 13<br>" 38 00                                   |              |             |                       |     |             | 53             |                             |
| (169-172) * |         |                              |                                                                  |              |             |                       |     |             |                |                             |
| 173         | " 24    | P<br>L<br>MN<br>F            | 02 49 46<br>" 49 55<br>" 49 57<br>" 51 05                        |              |             |                       | 29  |             | 64             |                             |
| (174-182) * |         |                              |                                                                  |              |             |                       |     |             |                |                             |
| 183         | " 28    | P<br>L<br>MN<br>ME<br>F      | 10 12 23<br>" 12 32<br>" 12 38<br>" 12 38<br>" 20 10             | 1.1          | 200         |                       | 315 |             | 64             | N. Formosa.                 |
| (184-185) * |         |                              |                                                                  |              |             |                       |     |             |                |                             |
|             |         |                              |                                                                  |              |             |                       |     |             |                | * minor shocks are omitted. |



## TAIHOKEU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02'.3$   $\lambda=121^{\circ} 30'.8$   $h=8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.  |    | $\varepsilon$ | r/T. | V   |
|-----|----|---------------|------|-----|
| AN: | 16 |               |      | 120 |
| AE: | 30 |               |      | 20  |
| Az: |    |               |      |     |

| No.                         | Date | Phase                        | G. M. T.<br>Time<br>h m s                                         | Period<br>s. | AE<br>$\mu$ | Amplitude<br>AN $\mu$ |  | Az<br>$\mu$ | $\Delta$<br>km | Remarks          |
|-----------------------------|------|------------------------------|-------------------------------------------------------------------|--------------|-------------|-----------------------|--|-------------|----------------|------------------|
| (186-201)*<br>202 March, 2. |      | P<br>S<br>L<br>ME<br>MN<br>F | 16 48 51<br>" 53 42<br>" 57 02<br>" 59 00<br>17 03 10<br>18 24 05 | 26.4<br>16.8 | 4475        | 358                   |  |             | 3932           | Distant.         |
| 203 " "                     |      | P<br>F                       | 19 52 14<br>" 53 20                                               |              |             |                       |  |             |                | Off NE. Formosa. |
| (204-205)*<br>206 " 5.      |      | P<br>L<br>F                  | 0 10 40<br>" 10 48<br>" 13 00                                     |              |             |                       |  |             | 61             | Do               |
| (207-220)*<br>221 " 7.      |      | P<br>L<br>MN<br>F            | 21 34 10<br>" 34 22<br>" 34 24<br>" 38 28                         | 1.4          |             | 42                    |  |             | 89             | Do               |
| (222)*<br>223 " 7.          |      | P<br>L<br>MN<br>F            | 22 31 40<br>" 31 57<br>" 32 11<br>" 36 41                         | 1.3          |             | 146                   |  |             |                | Do               |
| (224)*<br>225 " 8.          |      | P<br>L<br>MN<br>F            | 22 21 30<br>" " 40<br>" " 41<br>" 23 05                           | 1.3          |             | 63                    |  |             | 71             | Do               |
| (226)*<br>227 " 9.          |      | P<br>L<br>MN<br>F            | 04 13 55<br>" 14 00<br>" 14 00<br>" 15 05                         | -            |             | 33                    |  |             | 36             | Do               |
| (228)*<br>229 " 10.         |      | P<br>L<br>MN<br>F            | 11 21 34<br>" 21 42<br>" 21 43<br>" 22 51                         | -            |             | 44                    |  |             | 61             | Do               |
| (230)*<br>231 " 11.         |      | P<br>L<br>ME<br>MN<br>F      | 14 48 05<br>" 48 19<br>" 48 17<br>" 48 28<br>" 53 19              | 1.9          | 63          | 100                   |  |             | 107            | Do               |
| (232-233)*<br>234 " 12.     |      | P<br>L<br>MN<br>F            | 10 17 37<br>" 17 42<br>" 17 51<br>" 22 02                         | 1.4          |             | 101                   |  |             | 36             | Do               |

\* Minor shocks are omitted.



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

|     | T. | $\epsilon$ | $r/T_0$ | V   |
|-----|----|------------|---------|-----|
| AN: | 16 |            |         | 120 |
| AE: | 30 |            |         | 20  |
| Az: |    |            |         | 20  |

| No. | Date   | Phase                    | Time<br>h m s                                                                             | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks      |
|-----|--------|--------------------------|-------------------------------------------------------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|--------------|
| 241 | Mar 13 | F                        | 20 54 00<br>21 32 23                                                                      |              |             |                          |             |                | Distant.     |
| 241 | " 16   | P<br>S<br>L              | 22 06 05<br>22 10 02<br>22 12 06                                                          |              |             | 438                      |             | 3081           | Distant.     |
| 243 | " 17   | MIE<br>MN<br>F           | 22 15 35<br>22 16 35<br>23 31 53                                                          | 216<br>192   | 54          |                          |             | 135            | E coast off. |
| 244 | " 17   | P<br>L<br>MN<br>MIE<br>F | 16 02 17<br>16 02 35<br>16 02 40<br>16 02 39<br>16 10 12                                  | 19<br>19     | 1238        | 613                      |             | 135            | Do.          |
| 251 | " 18   | P<br>L<br>MN<br>F        | 16 19 31<br>16 19 49<br>16 20 00<br>16 22 02                                              | 14           | 44          |                          |             | 107            | Do.          |
| 257 | " 23   | P<br>L<br>F              | 16 30 04<br>16 30 18<br>16 30 19<br>16 32 15                                              | ?            | 17          |                          |             |                |              |
| 258 | " "    | P<br>L<br>F              | 6 14 06<br>6 14 19<br>6 16 40                                                             |              |             |                          |             | 54             | N Formosa.   |
| 259 | " "    | P<br>L<br>MN<br>F        | 18 44 20<br>18 44 28<br>18 44 28<br>18 46 31                                              | 14           | 50          |                          |             | 106            | E coast off. |
| 261 | " 24   | P<br>L<br>F              | 23 39 21<br>23 39 35<br>23 41 47                                                          |              |             |                          |             | 71             | Do.          |
| 262 | " "    | P<br>S<br>L<br>MIE<br>F  | 5 29 03<br>5 29 13<br>5 31 08<br>12 44 55<br>12 43 38<br>12 50 56<br>12 51 53<br>14 02 24 |              |             |                          |             | 3081           | Distant.     |
| 264 | " 26   | P<br>L<br>MN<br>F        | 14 24 23<br>14 24 30<br>14 24 34<br>14 29 20                                              | 19           | 231         | 4230                     |             | 52             | E coast off. |

\* Minor shocks are omitted.



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02.3'$   $\lambda = 120^{\circ} 30.8'$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | $r/T_0$ | V   |
|---------|------------|---------|-----|
| AN : 16 |            |         | 120 |
| AE : 30 |            |         | 20  |
| AZ :    |            |         | 20  |

| No.               | Date   | Phase                   | G. M. T.<br>Time<br>h m s                                | Period<br>s. | Amplitude<br>AN $\mu$ AE $\mu$ Az $\mu$ | $\Delta$<br>km | Remarks                                                                         |
|-------------------|--------|-------------------------|----------------------------------------------------------|--------------|-----------------------------------------|----------------|---------------------------------------------------------------------------------|
| (265-269)*<br>270 | Apr. 3 | P<br>L<br>MN<br>F       | 16 02 19<br>16 02 37<br>16 02 38<br>16 05 13             | 14           | 42                                      |                | 131<br>Felt at Sakaishigaki.                                                    |
| (271)*<br>272     | " 5    | P<br>L<br>ME<br>F       | 22 09 45<br>22 09 57<br>22 10 02<br>22 23 07             | ?            | 2950                                    |                | 89<br>Felt in N Formosa.<br>O: off E coast.<br>Printer of N comp. off<br>sheet. |
| (273-278)*<br>277 | " 9    | P<br>L<br>F             | 16 02 09<br>16 02 21<br>16 04 52                         |              |                                         |                | 91                                                                              |
| 278               | " "    | P<br>L<br>F             | 18 27 35<br>18 27 45<br>18 29 43                         |              |                                         |                | 73                                                                              |
| (279-283)*<br>284 | " 13   | e<br>L<br>ME<br>F       | 15 51 30<br>15 56 12<br>15 56 25<br>16 41 -              | 222          | 54                                      |                | 2564<br>Distant.                                                                |
| (285-290)*<br>296 | " 19   | e<br>L<br>F             | 03 14 10<br>03 18 22<br>03 55 -                          |              |                                         |                | 2368<br>Do.                                                                     |
| (291-303)*<br>304 | " 23   | P<br>L<br>F             | 03 15 38<br>03 19 19<br>04 10 -                          |              |                                         |                | 2166<br>Do. Printer of N comp.<br>got out off sheet.                            |
| (305-318)*<br>319 | May 2  | e<br>L<br>F             | 19 03 10<br>19 04 26<br>19 08 25                         |              |                                         |                | 491                                                                             |
| 321               | " 4    | P<br>L<br>ME<br>MN<br>F | 10 41 32<br>10 42 06<br>10 42 17<br>10 42 23<br>10 53 48 | 19<br>12     | 206                                     | 185            | 249                                                                             |
| 322               | " "    | P<br>S<br>L<br>F        | 16 50 16<br>16 57 25<br>17 03 28<br>18 27 00             |              |                                         |                | 5900<br>Distant.                                                                |
| (323-325)*<br>326 | " 6    | e<br>L<br>F             | 12 20 25<br>12 21 43<br>12 26 02                         |              |                                         |                | 577                                                                             |
| (327-338)*<br>339 | " 17   | e<br>L<br>MN<br>F       | 15 12 49<br>15 13 44<br>15 13 58<br>15 19 12             | 20           | 38                                      |                | 409<br>Felt at Koshun.                                                          |



地震觀測表

地震番號 246

台北測候所

有感覺地震番號

強震計觀測番號

(甲 第 參 號)

|        |     |           |    |       |       |        |       |         |   |
|--------|-----|-----------|----|-------|-------|--------|-------|---------|---|
| 微動計ノ種類 |     | 倍率        | 週期 | 振子ノ方  | 摩擦    | 制振度    | 觀測所位置 |         |   |
| 東西動    |     |           |    |       |       |        | 東經    | 121°31' |   |
| 南北動    |     | 20        | 30 |       |       |        | 北緯    | 25°02'  |   |
| 上下動    |     | 120       | 16 |       |       |        | 高サ    | 8米      |   |
| 發震年月日  |     | 大正十年三月十七日 |    |       |       |        |       |         |   |
| 相      | 發   | 現         | 時  | 刻     | 振幅    |        | 週     | 期       |   |
|        |     |           |    |       | 東西    | 南北     |       |         |   |
| P      | 06  | 06        | 05 |       |       |        |       |         |   |
| S      | ..  | 10        | 02 |       |       |        |       |         |   |
| L      | ..  | 12        | 00 |       |       |        |       |         |   |
| ME     | ..  | 15        | 35 | 0.438 |       |        |       | 21.8    |   |
| MX     | -   | 16        | 35 |       | 0.054 |        |       | 19.2    |   |
| F      | 07  | 31        | 53 |       |       |        |       |         |   |
|        |     |           |    | 震央距離  |       | 308 Km |       |         |   |
| 初動     |     |           |    |       |       |        |       |         |   |
| 強震計觀測  | 發   | 現         | 時  | 刻     | 水     |        | 上下    |         |   |
|        |     |           |    |       | 平     | 動      | 時     | 分       | 秒 |
|        | 初   | 微         | 動  | 時     | 分     | 秒      | 時     | 分       | 秒 |
|        | 主   | 要         | 動  | 時     | 分     | 秒      | 時     | 分       | 秒 |
|        | 震   | 動         | 終  | 時     | 分     | 秒      | 時     | 分       | 秒 |
| 最大動    |     | 發         | 現  | 時     | 時     | 分      | 分     | 秒       |   |
|        |     | 全         | 振  | 耗     | 耗     |        |       |         |   |
|        |     | 週         | 期  | 秒     | 秒     |        |       |         |   |
| 振動ノ方向  |     |           |    |       |       |        |       |         |   |
| 人身ノ感覺  | 震度  |           | 性  |       | 質     |        | 地     |         |   |
|        |     |           | 急  |       | 稍     |        | 有     |         |   |
| 記      | 遠距離 |           |    |       |       |        |       |         |   |
|        |     |           |    |       |       |        | 鳴     |         |   |
| 事      |     |           |    |       |       |        |       |         |   |
|        |     |           |    |       |       |        | 無     |         |   |



from May 17 to May 31 1923

# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\varphi = 25^{\circ} 02'.3$   $\lambda = 120^{\circ} 30'.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

T.  $\varepsilon$   $\frac{1}{T}$  V

AN: 16

AE: 30

Az: 20

| No. | Date   | Phase | G. M. T.<br>h m s | Period<br>s. | AN<br>μ | Amplitude<br>AE<br>μ | Az<br>μ | Δ<br>km | Remarks                                    |
|-----|--------|-------|-------------------|--------------|---------|----------------------|---------|---------|--------------------------------------------|
| 340 | May 17 | e     | 21 47 28          |              |         |                      |         | 108     | Felt in NE Formosa.                        |
| 341 | " 18   | P     | 11 19 47          |              |         |                      |         | 119     | Felt in the northern half of Formosa.      |
|     |        | L     | 11 20 03          |              |         |                      |         |         |                                            |
|     |        | MN    | 11 20 05          |              |         |                      |         |         |                                            |
|     |        | F     | 11 24 15          | 15           | 127     |                      |         |         | Microseism.                                |
| 342 | " 19   | e     | 21 20 30          |              |         |                      |         |         | Do.                                        |
| 343 | " 20   | e     | 10 42 57          |              |         |                      |         |         | Felt in NE Formosa.                        |
| 344 | " 21   | P     | 11 26 41          |              |         |                      |         | 85      |                                            |
|     |        | L     | 11 26 53          |              |         |                      |         |         |                                            |
|     |        | MN    | 11 27 03          |              |         |                      |         |         |                                            |
|     |        | F     | 11 29 09          |              |         |                      |         |         |                                            |
| 345 | " "    | P     | 12 17 15          |              |         |                      |         | 85      | Do.                                        |
|     |        | L     | 12 17 27          |              |         |                      |         |         |                                            |
|     |        | MN    | 12 17 31          | 12           | 39      |                      |         |         |                                            |
|     |        | F     | 12 19 29          |              |         |                      |         |         |                                            |
| 346 | " 22   | P     | 10 15 56          |              |         |                      |         | 85      | Do.                                        |
|     |        | L     | 10 16 08          |              |         |                      |         |         |                                            |
|     |        | MN    | 10 16 13          | 14           | 58      |                      |         |         |                                            |
|     |        | F     | 10 19 23          |              |         |                      |         |         |                                            |
| 347 | " 23   | P     | 11 30 52          |              |         |                      |         | 89      | Felt in the northern half part of Formosa. |
|     |        | L     | 11 31 04          |              |         |                      |         |         |                                            |
|     |        | MN    | 11 31 17          | 14           |         | 173                  |         |         |                                            |
|     |        | F     | 11 37 36          |              |         |                      |         |         | Distant.                                   |
| 348 | " "    | e     | 22 51 15          |              |         |                      |         |         | Do.                                        |
| 349 | " 24   | F     | 00 21 05          |              |         |                      |         |         | Do.                                        |
|     | " 25   | e     | 22 42 30          |              |         |                      |         |         |                                            |
|     | " 26   | F     | 00 11 40          |              |         |                      |         |         |                                            |
| 350 | " "    | e     | 03 21 44          |              |         |                      |         |         |                                            |
|     |        | F     | 03 55 30          |              |         |                      |         |         |                                            |
| 351 | " "    | P     | 09 49 32          | 07           | 78      |                      |         | 89      | Felt in the half northern part of Formosa. |
|     |        | L     | 09 49 44          |              |         |                      |         |         |                                            |
|     |        | MN    | 09 50 07          |              |         |                      |         |         |                                            |
|     |        | F     | 09 55 34          |              |         |                      |         |         |                                            |
| 352 | " "    | e     | 23 14 55          |              |         |                      |         |         | Felt at Asahimura (E coast).               |
| 353 | " 27   | e     | 19 25 55          |              |         |                      |         |         | Microseism.                                |
| 354 | " "    | P     | 19 54 18          |              |         |                      |         | 93      | Felt in the E coast.                       |
|     |        | L     | 19 54 31          |              |         |                      |         |         |                                            |
|     |        | MN    | 19 54 36          | 13           | 60      |                      |         |         |                                            |
|     |        | F     | 19 57 15          |              |         |                      |         |         |                                            |
| 355 | " 28   | e     | 01 49 15          |              |         |                      |         |         | Distant.                                   |
|     |        | F     | 02 41 55          |              |         |                      |         |         |                                            |
| 356 | " "    | e     | 12 29 37          |              |         |                      |         |         | Felt at Kurehō (E coast).                  |
| 357 | " 30   | L     | 08 58 -           |              |         |                      |         |         | Distant.                                   |
|     |        | F     | 09 16 -           |              |         |                      |         |         |                                            |
| 358 | " "    | e     | 18 24 55          |              |         |                      |         |         | Do.                                        |
|     |        | F     | 18 46 15          |              |         |                      |         |         |                                            |
|     |        | L     | 18 46 15          |              |         |                      |         |         |                                            |
| 359 | " 31   | e     | 06 04 34          |              |         |                      |         |         | Do.                                        |
|     |        | F     | 06 36 28          |              |         |                      |         |         |                                            |
|     |        | L     | 19 18 44          |              |         |                      |         |         |                                            |
| 360 | " "    | e     | 22 46 11          |              |         |                      |         |         | Microseism.                                |
| 361 | " "    | P     | 22 46 21          | 14           | 54      |                      |         | 76      | Felt in NE Formosa.                        |
|     |        | L     | 22 46 29          |              |         |                      |         |         |                                            |
|     |        | MN    | 22 46 50          |              |         |                      |         |         |                                            |
|     |        | F     |                   |              |         |                      |         |         |                                            |







## 地震觀測表

地震番號

363

台北測候所

有感覺地震番號

強震計觀測番號

(甲 第 參 號)

|        |     |     |    |      |         |     |             |
|--------|-----|-----|----|------|---------|-----|-------------|
| 微動計ノ種類 | 倍率  | 週期  | 振目 | 于ノ方  | 摩察      | 制振度 | 觀測所位置       |
| 東西動    | 大森式 | 20  | 25 | 16.1 | 0.00096 | -   | 東經 121 30.8 |
| 南北動    | "   | 120 | 16 | 55.0 | -       | -   | 北緯 25 02.3  |
| 上下動    |     |     |    |      |         |     | 高サ 80       |

發震年月日

大正十二年六月二日

| 相               | 發  | 現時刻 |    | 振幅 |   |        | 週期   |
|-----------------|----|-----|----|----|---|--------|------|
|                 |    | 時   | 分  | 東  | 西 | 南北     |      |
| Pc              | 04 | 20  | 20 |    |   |        |      |
| L               | 04 | 24  | 21 |    |   |        |      |
| MN <sub>1</sub> | 04 | 30  | 06 |    |   | -0.438 | 152  |
| MN <sub>2</sub> | 04 | 30  | 31 |    |   | +0.444 | 168  |
| F               | 06 | 33  | 06 |    |   |        | 14.1 |
|                 |    | 10  | -  |    |   |        |      |

震

央距離

2297

初動

| 強震計觀測 | 初動    | 水平動 |   | 上下動 |   |
|-------|-------|-----|---|-----|---|
|       |       | 時   | 分 | 時   | 分 |
| 發     | 初期微動  | 時   | 分 | 時   | 分 |
| 現     | 主 要 動 | 時   | 分 | 時   | 分 |
| 時     | 震動ノ終  | 時   | 分 | 時   | 分 |
| 最大動   | 發 現 時 | 時   | 分 | 時   | 分 |
|       | 全 振 幅 | 耗   |   | 耗   |   |
|       | 週 期   | 秒   |   | 秒   |   |
|       | 振動ノ方向 |     |   |     |   |

人身ノ感覺

震

度

性 質

地

鳴

記

事

前報告中5.12.9.10.ハ、△△△△ハ主要動第二部1初トヌ



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | $r/T$ . | V   |
|--------|------------|---------|-----|
| AN: 16 |            |         |     |
| AE: 30 |            |         | 120 |
| Az: 20 |            |         | 20  |

| No. | Date   | Phase                                                 | Gr. M. T.<br>Time<br>h m s                                                                  | Period<br>s.             | Amplitude<br>AN $\mu$ AE $\mu$ Az $\mu$         | $\Delta$<br>km | Remarks                            |
|-----|--------|-------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------|----------------|------------------------------------|
| 362 | June 1 | $\epsilon$<br>L<br>MN<br>MN2<br>ME1<br>MN<br>ME2<br>F | 17 29 22<br>17 33 28<br>17 34 53<br>17 36 55<br>17 37 00<br>17 39 16<br>17 39 15<br>19 44 - | 128<br>211<br>234<br>175 | +175<br>-233<br><br>+564<br>off sheet.<br>+1002 | 2329           | Off the coast of Choshi,<br>Japan. |
| 363 | " 1    | $\epsilon$<br>L<br>MN<br>ME<br>MN2<br>F               | 20 20 20<br>20 24 21<br>20 30 06<br>20 30 31<br>20 33 06<br>22 10 -                         | 152<br>168<br>141        | -438<br>+444<br>-378                            | 2297           | Do.                                |
| 365 | " 6    | $\epsilon$<br>F                                       | 17 44 50<br>18 19 -                                                                         |                          |                                                 |                | Distant.                           |
| 367 | " 14   | P<br>L<br>MN<br>F                                     | 16 04 54<br>16 05 04<br>16 05 04<br>16 07 03                                                | 09                       | 29                                              | 71             |                                    |
| 374 | " 18   | $\epsilon$                                            | 8 27 15<br>9 22 -                                                                           |                          |                                                 |                | Distant.                           |
| 377 | " 19   | P<br>L<br>MN<br>F                                     | 14 52 17<br>14 52 27<br>14 52 28<br>14 54 59                                                | 06                       | 56                                              | 76             |                                    |
| 379 | " 20   | P<br>L<br>MN<br>F                                     | 4 53 24<br>4 53 40<br>4 53 47<br>4 56 25                                                    | 10                       | 56                                              | 117            | Felt in central Formosa.           |
| 380 | " 22   | P<br>S<br>L<br>ME<br>F                                | 6 49 16<br>6 53 15<br>6 55 58<br>6 57 03<br>8 35 -                                          | 202                      | -2513                                           | 3349           | Distant; N component<br>off sheet. |
| 381 | " "    | $\epsilon$<br>F                                       | 10 03 39<br>10 08 02                                                                        |                          |                                                 |                | Distant.                           |
| 382 | " "    | $\epsilon$<br>F                                       | 12 14 43<br>12 22 05                                                                        |                          |                                                 |                | Do.                                |
| 385 | " 23   | P<br>L<br>MN<br>F                                     | 15 17 24<br>15 17 49<br>15 18 06<br>15 23 15                                                | 19                       | 49                                              | 189            | Felt in E coast.                   |

Nos. 364, 366, 368, 373, 375, 376, 378, 383 &amp; 384 microseisms are omitted.



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | $r/T$ | V   |
|--------|------------|-------|-----|
| AN: 16 |            |       |     |
| AE: 30 |            |       | 120 |
| Az: 20 |            |       | 20  |

| No. | Date    | Phase             | G.M.T.<br>Time<br>h m s                      | Period<br>s. | Amplitude<br>AN $\mu$ AE $\mu$ Az $\mu$ | $\Delta$<br>km | Remarks                                                                |
|-----|---------|-------------------|----------------------------------------------|--------------|-----------------------------------------|----------------|------------------------------------------------------------------------|
| 386 | June 25 | P<br>L<br>MN<br>F | 0 53 53<br>0 54 11<br>0 54 13<br>0 58 22     | 1.0          | 75                                      | 134            | Felt at Gotoh-in. (coast).                                             |
| 387 | "       | P<br>L<br>MN<br>F | 9 59 53<br>10 00 18<br>10 00 38<br>10 06 12  | 1.9          | 39                                      | 186            | Felt in E coast.                                                       |
| 388 | "       | P<br>L<br>MN<br>F | 11 31 47<br>11 32 15<br>11 32 28<br>11 37 56 | 1.4          | 79                                      | 206            | Do.                                                                    |
| 393 | " 28    | P<br>L<br>MN<br>F | 20 06 20<br>20 06 40<br>20 06 46<br>20 10 28 | 1.4          | 35                                      | 151            | Do.                                                                    |
| 394 | July 1  | e<br>F            | 8 03 04<br>8 29 06                           |              |                                         |                | Distant                                                                |
| 395 | " 2     | P<br>L<br>MN<br>F | 2 32 34<br>2 33 04<br>2 34 22<br>3 33 -      | 177          | 3225                                    | 219            | Non-ment off sheet.<br>Felt in all Formosa.                            |
| 400 | "       | e<br>L<br>MN      | 3 06 02<br>3 06 28<br>3 06 29                | 24           | 51                                      | 189            | Occurred in the former<br>record and overlapped by<br>following quake. |
| 407 | "       | e<br>L            | 13 40 08<br>13 40 38                         |              |                                         | 219            | Overlapped by following<br>quake. Felt at Taihoku.                     |
| 410 | "       | e<br>L<br>F       | 15 09 53<br>15 10 26<br>15 17 15             |              |                                         | 242            |                                                                        |
| 415 | " 5     | e<br>L            | 1 41 29<br>1 41 54                           |              |                                         | 183            | Overlapped by following<br>quake.                                      |
| 424 | " 7     | e<br>L<br>MN<br>F | 3 53 36<br>3 53 58<br>3 54 16<br>3 59 20     | 19           | 69                                      | 165            | Felt in E coast.                                                       |
| 425 | "       | P<br>L<br>F       | 7 44 18<br>7 44 44<br>7 47 58                |              |                                         | 191            | Do.                                                                    |
| 431 | " 12    | e<br>F            | 3 36 -<br>4 40 -                             |              |                                         |                | Distant.                                                               |

Nos. 389-392; 396-399; 401-406; 408, 409, 411-414; 416-423; 426-430 microseisms are omitted.



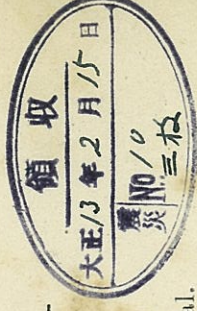
## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | $1/T_0$ | V   |
|--------|------------|---------|-----|
| AN: 16 |            |         |     |
| AE: 30 |            |         | 120 |
| AZ: 20 |            |         | 20  |
|        |            |         | 20  |



| No. | Date  | Phase                         | G. M. T.<br>h m s                                                   | Period<br>s.      | Amplitude<br>AN $\mu$ AE $\mu$ Az $\mu$ | $\Delta$<br>km | Remarks                               |
|-----|-------|-------------------------------|---------------------------------------------------------------------|-------------------|-----------------------------------------|----------------|---------------------------------------|
| 579 | Nov 2 | P<br>S<br>L<br>F              | 21 16 05<br>21 23 23<br>21 28 57<br>23 12 07                        |                   |                                         |                | 5729<br>Distinct.                     |
| 580 | " 3   | e<br>F                        | 23 25 11<br>00 23 08                                                |                   |                                         |                | Do.                                   |
| 581 | " "   | P<br>L<br>MN<br>ME<br>F       | 16 21 27<br>16 23 30<br>16 25 49<br>16 29 05<br>17 30 -             | 180<br>185        | 465<br>375                              |                |                                       |
| 582 | " 4   | P<br>S<br>L<br>F              | 0 12 32<br>0 19 00<br>0 22 49<br>1 15 -                             |                   |                                         |                | 4742<br>Do.                           |
| 583 | " "   | e<br>F                        | 20 53 -<br>21 07 -                                                  |                   |                                         |                | Do.                                   |
| 584 | " 5   | P<br>L<br>ME<br>MN<br>ME<br>F | 21 30 10<br>21 32 39<br>21 33 47<br>21 34 39<br>21 38 10<br>23 10 - | 288<br>198<br>255 | 833<br>358<br>1088                      | 1106           | Do.<br>Origin 130° 15' E<br>28° 45' N |
| 585 | " 6   | e<br>F                        | 19 21 12<br>20 05 -                                                 |                   |                                         |                | Very faint.                           |
| 586 | " 14  | e<br>F                        | 17 11 48<br>17 13 34                                                |                   |                                         | 97             |                                       |
| 587 | " "   | e<br>L<br>F                   | 18 52 00<br>18 52 13<br>18 53 19                                    |                   |                                         |                |                                       |
| 588 | " 15  | e<br>L<br>F                   | 7 16 08<br>7 16 20<br>7 17 21                                       |                   |                                         | 91             |                                       |
| 589 | " "   | e<br>F                        | 23 49 32<br>23 51 04                                                |                   |                                         |                |                                       |
| 590 | " 16  | P<br>F                        | 19 24 20<br>19 25 34                                                |                   |                                         |                |                                       |
| 591 | " 18  | P<br>F                        | 16 23 35<br>16 24 35                                                |                   |                                         |                |                                       |
| 592 | " "   | P<br>F                        | 19 31 10<br>19 31 55                                                |                   |                                         |                |                                       |
| 593 | " "   | P<br>L<br>F                   | 20 13 59<br>20 13 27<br>20 16 42                                    |                   |                                         | 130            |                                       |



## TAIHOKU, FORMOSA, JAPAN.

## • SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | $r/T_0$ | V   |
|--------|------------|---------|-----|
| AN: 16 |            |         | 120 |
| AE: 30 |            |         | 20  |
| AZ: 20 |            |         | 20  |

| No. | Date   | Phase             | Time<br>h m s                                | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | AZ<br>$\mu$ | $\Delta$<br>km | Remarks                                                                                       |
|-----|--------|-------------------|----------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|-----------------------------------------------------------------------------------------------|
| 594 | Nov 18 | P<br>L            | 21 26 37<br>21 26 54                         |              |             |                          |             | 125            | End overtaken<br>by following.                                                                |
| 595 | "      | P                 | 21 29 16                                     |              |             |                          |             | 125            | Ditto.                                                                                        |
| 596 | "      | P<br>L<br>F       | 21 29 52<br>21 30 09<br>21 53 00             |              |             |                          |             | 122            | Max. lost by writing<br>print getting out of<br>sheet. Felt in N. W. half<br>part of Formosa. |
| 597 | "      | P<br>L<br>MN<br>F | 22 37 05<br>22 37 22<br>22 37 50<br>22 39 35 | ?            | 127         |                          |             |                | After shock of No. 596.                                                                       |
| 598 | " 19   | P<br>F            | 0 49 50<br>0 51 24                           |              |             |                          |             |                | Ditto.                                                                                        |
| 599 | "      | P<br>L<br>ME      | 2 19 31<br>2 19 50<br>2 19 55                | 19           |             | 1040                     |             | 137            | Ditto. Felt in N. W. Formosa.<br>Max. lost. End overtaken<br>by following one.                |
| 600 | "      | P<br>L<br>ME<br>F | 2 23 14<br>2 23 33<br>2 23 47<br>2 32 40     | 19           |             | 388                      |             |                | Ditto. Felt in N. W. Formosa.                                                                 |
| 601 | "      | P<br>F            | 2 48 22<br>2 50 18                           |              |             |                          |             |                | Ditto.                                                                                        |
| 602 | "      | e<br>MN<br>F      | 4 09 58<br>4 10 16<br>4 12 50                | 14           | 47          |                          |             |                | Ditto.                                                                                        |
| 603 | "      | P<br>L<br>MN<br>F | 4 13 21<br>4 13 38<br>4 13 42<br>4 17 12     | ?            | 142         |                          |             |                | Ditto.                                                                                        |
| 604 | "      | e<br>F            | 17 52 22<br>17 54 14                         |              |             |                          |             |                | Ditto.                                                                                        |
| 605 | " 20   | e<br>F            | 3 04 16<br>3 05 50                           |              |             |                          |             |                | Ditto.                                                                                        |
| 606 | "      | e<br>F            | 12 46 09<br>12 48 08                         |              |             |                          |             |                | Ditto.                                                                                        |
| 607 | " 22   | P<br>L<br>ME<br>F | 7 21 15<br>7 21 33<br>7 21 49<br>7 32 45     | 19           |             | 1030                     |             | 132            | Ditto. Felt in N. Formosa.<br>Max. lost.                                                      |
| 608 | " 23   | P<br>L<br>MN<br>F | 13 24 59<br>13 25 11<br>13 25 14<br>13 27 54 | 10           | 43          |                          |             | 80             |                                                                                               |



# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\phi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | $r/T_0$ | V   |
|--------|------------|---------|-----|
| AN: 16 |            |         |     |
| AE: 30 |            |         | 120 |
| Az: 20 |            |         | 20  |

| No. | Date    | Phase                          | Time<br>h m s                                | Period<br>s. | Amplitude<br>AN $\mu$ AE $\mu$ Az $\mu$ | $\Delta$<br>km | Remarks                                        |
|-----|---------|--------------------------------|----------------------------------------------|--------------|-----------------------------------------|----------------|------------------------------------------------|
| 609 | Nov. 23 | P<br>L<br>F                    | 20 30 20<br>20 30 45<br>20 33 19             |              |                                         |                | 111                                            |
| 610 | " "     | P<br>F                         | 20 35 04<br>20 36 24                         |              |                                         |                |                                                |
| 611 | " 24    | e<br>F                         | 12 25 00<br>12 25 54                         |              |                                         |                |                                                |
| 612 | " 25    | P<br>L<br>ME<br>F              | 17 03 49<br>17 04 15<br>17 04 25<br>17 33 00 | 0.7          |                                         |                | 192 Felt in N. W. part of Formosa              |
| 613 | Dec. 4  | P <sub>2</sub><br>L<br>MN<br>F | 0 50 32<br>0 51 03<br>0 51 14<br>0 54 12     | 2.8          | 86                                      |                | 230 Felt at station (from coast) and Pescadore |
| 614 | " 6     | ME<br>F <sub>2</sub>           | 23 49 -<br>23 58 -                           |              |                                         |                | Print trace                                    |
| 615 | " 5     | e<br>F                         | 21 13 35<br>21 20 00                         |              |                                         |                |                                                |
| 616 | " "     | e<br>L <sub>2</sub><br>F       | 22 41 22<br>22 46 19<br>23 07 -              |              |                                         |                | 2663                                           |
| 617 | " 6     | e<br>F                         | 21 38 18<br>21 40 27                         |              |                                         |                |                                                |
| 618 | " 7     | e<br>F                         | 11 47 10<br>11 48 08                         |              |                                         |                |                                                |
| 619 | " "     | P<br>L<br>F                    | 15 27 42<br>15 28 13<br>15 29 45             |              |                                         |                | 232                                            |
| 620 | " "     | e<br>F                         | 19 51 35<br>19 52 52                         |              |                                         |                |                                                |
| 621 | " 8     | e<br>L<br>MN<br>F              | 5 50 48<br>5 51 12<br>5 51 26<br>5 57 04     | 2.5          | 44                                      |                |                                                |
| 622 | " "     | e<br>F                         | 19 11 -<br>19 23 -                           |              |                                         |                | Print trace of distant earthquake              |
| 623 | " 10    | P<br>L<br>MN<br>F              | 2 35 42<br>2 36 04<br>2 36 32<br>2 39 00     | 1.4          | 83                                      |                | 160                                            |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02.3$   $\lambda = 120^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| $T_0$  | $\varepsilon$ | $r/\Gamma_0$ | V   |
|--------|---------------|--------------|-----|
| AN: 16 |               |              |     |
| AE: 30 |               |              | 120 |
| Az: 20 |               |              | 20  |

| No. | Date    | Phase | G. M. T.<br>Time<br>h m s        | Period<br>s. | Amplitude |         |         | $\Delta$<br>km | Remarks |
|-----|---------|-------|----------------------------------|--------------|-----------|---------|---------|----------------|---------|
|     |         |       |                                  |              | AN<br>"   | AE<br>" | Az<br>" |                |         |
| 624 | Dec. 11 | e F   | 5 25 -<br>5 51 -                 |              |           |         |         |                |         |
| 625 | " 12    | e F   | 22 59 03<br>22 59 19             |              |           |         |         |                |         |
| 626 | " 13    | e F   | 4 47 18<br>4 48 19               |              |           |         |         |                |         |
| 627 | " 14    | e F   | 8 07 56<br>8 08 55               |              |           |         |         |                |         |
| 628 | " 16    | P L F | 10 24 06<br>10 24 18<br>10 26 06 |              |           |         |         |                |         |
| 629 | " "     | e F   | 21 34 09<br>21 35 05             |              |           |         |         |                |         |
| 630 | " 18    | e F   | 8 02 52<br>8 04 01               |              |           |         |         |                |         |
| 631 | " 21    | e F   | 16 42 23<br>16 43 38             |              |           |         |         |                |         |
| 632 | " 22    | e L F | 19 02 11<br>19 02 20<br>19 05 29 |              |           |         |         |                |         |
| 633 | " 24    | e F   | 19 06 00<br>19 06 20             |              |           |         |         |                |         |
| 634 | " 25    | e F   | 4 34 36<br>4 36 14               |              |           |         |         |                |         |
| 635 | " "     | P L F | 6 46 45<br>6 46 59<br>6 49 45    |              |           |         |         |                |         |
| 636 | " 26    | e L F | 6 44 17<br>6 44 36<br>6 48 05    |              |           |         |         |                |         |
| 637 | " 27    | e F   | 14 42 38<br>15 08 -              |              |           |         |         |                |         |
| 638 | " 28    | P L F | 19 53 59<br>19 53 12<br>19 55 33 |              |           |         |         |                |         |
| 639 | " "     | e F   | 22 49 -<br>23 14 -               |              |           |         |         |                |         |
| 640 | " "     | e F   | 23 54 03<br>23 54 52             |              |           |         |         |                |         |



## TAIHOKU, FORMOSA, JAPAN.

(甲 第四號)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\varphi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     |            | r/T.  |       | V     |
|--------|------------|-------|-------|-------|
| T.     | $\epsilon$ | $\mu$ | $\mu$ | $\mu$ |
| AN: 16 |            |       |       | 120   |
| AE: 30 |            |       |       | 20    |
| Az:    |            |       |       |       |

| No. | Date   | Phase                   | G. M. T.<br>Time<br>h m s                 | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | AZ<br>$\mu$ | $\Delta$<br>km | Remarks                                                                                       |
|-----|--------|-------------------------|-------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|-----------------------------------------------------------------------------------------------|
| 1   | Jan. 2 | e<br>F                  | 14 49 46<br>50 33                         |              |             |                          |             |                |                                                                                               |
| 2   | " 3    | e<br>L<br>MN<br>F       | 11 51 58<br>52 17<br>25<br>54 09          | 14           | 28          |                          |             |                |                                                                                               |
| 3   | " 7    | e<br>F                  | 6 02 24<br>03 38                          |              |             |                          |             |                |                                                                                               |
| 4   | " 10   | e<br>L<br>F             | 14 48 07<br>49 28<br>53 32                |              |             |                          |             |                |                                                                                               |
| 5   | " "    | e<br>L<br>MN<br>F       | 23 06 26.0<br>46.2<br>07 31.2<br>12 50.0  | 1.0          | 60          |                          |             | 2257           | Violent earthquake<br>near Tokio.                                                             |
| 6   | " 14   | P<br>L<br>MN<br>ME<br>F | 4 54 44<br>58 39<br>55<br>5 02 03<br>30 - | 144<br>240   | 321         | 1050                     |             |                | Felt in N. part of<br>the Island. Epicenter<br>E coast off.                                   |
| 7   | " "    | P<br>L<br>ME<br>F       | 23 13 37.0<br>44.2<br>46.1<br>18 11.0     | 10           |             | 135                      |             |                | Ditto.                                                                                        |
| 8   | " " 15 | P<br>L<br>F             | 23 58 49.0<br>56.2<br>0 01 26.0           |              |             |                          |             |                | Felt in whole. Formosa<br>except the N. part.<br>Epicenter probably in<br>the Bashee Channel. |
| 9   | " "    | e<br>L<br>MN<br>F       | 11 36 18.0<br>45.8<br>37 21.8<br>46 28.0  | 192          | 98          |                          |             |                |                                                                                               |
| 10  | " 16   | e<br>F                  | 19 57 22<br>59 30                         |              |             |                          |             |                |                                                                                               |
| 11  | " 17   | e<br>F                  | 23 12 45<br>13 48                         |              |             |                          |             |                |                                                                                               |
| 12  | " 18   | P<br>F                  | 3 21 00<br>47                             |              |             |                          |             |                |                                                                                               |
| 13  | " 19   | e<br>F                  | 4 54 34<br>55 48                          |              |             |                          |             |                |                                                                                               |
| 14  | " 21   | e<br>F                  | 2 00 00<br>28 35                          |              |             |                          |             |                |                                                                                               |
| 15  | " "    | e<br>F                  | 16 52 54<br>54 25                         |              |             |                          |             |                |                                                                                               |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\varphi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | r/T. | V   |
|--------|------------|------|-----|
| AN: 46 |            |      | 120 |
| AE: 30 |            |      | 20  |
| AZ:    |            |      |     |

| No. | Date   | Phase                                | G. M. T.<br>Time<br>h m s       | Period<br>s. | Amplitude   |             | AZ<br>$\mu$ | $\Delta$<br>km | Remarks                     |
|-----|--------|--------------------------------------|---------------------------------|--------------|-------------|-------------|-------------|----------------|-----------------------------|
|     |        |                                      |                                 |              | AN<br>$\mu$ | AE<br>$\mu$ |             |                |                             |
| 16  | Jan 22 | $\frac{e}{F}$                        | 0 00 58<br>02 58                |              |             |             |             |                |                             |
| 17  | " 27   | $\frac{e}{L}$<br>MN<br>$\frac{F}{F}$ | 4 24 00<br>55<br>25 07<br>46 00 | 24           | 46          |             |             |                |                             |
| 18  | " 29   | $\frac{L_e}{F}$                      | 2 43 -<br>56 -                  |              |             |             |             |                |                             |
| 19  | " "    | $\frac{L_e}{F}$                      | 3 13 -<br>56 -                  |              |             |             |             |                |                             |
| 20  | " 30   | $\frac{e}{F}$                        | 0 13 05<br>34 -                 |              |             |             |             |                |                             |
| 21  | " "    | $\frac{e}{F}$                        | 4 51 41<br>5 14 40              |              |             |             |             |                |                             |
| 22  | " "    | $\frac{e}{F}$                        | 10 03 56<br>05 18               |              |             |             |             |                |                             |
| 23  | " 31   | $\frac{e}{F}$                        | 23 03 34<br>05 33               |              |             |             |             |                |                             |
| 24  | Feb 1  | $\frac{e}{F}$                        | 17 13 40<br>14 41               |              |             |             |             |                |                             |
| 25  | " 9    | MN<br>$\frac{F}{F}$                  | 19 49 10<br>50                  |              |             |             |             |                |                             |
| 26  | " "    | $\frac{e}{F}$                        | 23 09 00<br>30                  |              |             |             |             |                |                             |
| 27  | " 13   | $\frac{e}{F}$                        | 17 47 33<br>48 46               |              |             |             |             |                |                             |
| 28  | " "    | $\frac{e}{L}$<br>$\frac{F}{F}$       | 23 56 10<br>23 00 53<br>19 38   |              |             |             |             |                |                             |
| 29  | " 14   | $\frac{e}{F}$                        | 19 05 40<br>14 15               |              |             |             |             |                |                             |
| 30  | " 15   | $\frac{e}{F}$                        | 0 10 56<br>11 40                |              |             |             |             |                |                             |
| 31  | " 17   | P<br>$\frac{F}{F}$                   | 22 43 49<br>46 10               |              |             |             |             |                |                             |
| 32  | " "    | P<br>$\frac{F}{F}$                   | 22 47 00<br>40                  |              |             |             |             |                |                             |
| 33  | " 25   | $\frac{e}{L}$<br>$\frac{F}{F}$       | 3 03.47<br>04 00<br>05 52       |              |             |             |             |                | Felt at Kamsaku (alluvial). |



TAIHOKU, FORMOSA, JAPAN.

(甲 第四號)

領收  
大正13年7月9日  
震NO. 18  
四枚

SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\varphi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum (mass 16 kg.)

T.  $\epsilon$  r/T. V  
AN: 16  
AE: 30  
AZ: 20

| No. | Date   | Phase | Time  |     | Period<br>s. | AN<br>$\mu$ | Amplitude   |             | AZ<br>$\mu$ | $\Delta$<br>km | Remarks |
|-----|--------|-------|-------|-----|--------------|-------------|-------------|-------------|-------------|----------------|---------|
|     |        |       | h     | m s |              |             | AN<br>$\mu$ | AE<br>$\mu$ |             |                |         |
| 34  | Feb 26 | L     | 23 47 | 22  |              |             |             |             |             |                |         |
|     |        | L     | 23 47 | 38  |              |             |             |             |             |                |         |
|     |        | MN    | 23 48 | 31  |              |             |             |             |             |                |         |
|     |        | F     | 23 55 | 30  |              |             |             |             |             |                |         |
| 35  | " 29   | F     | 8 26  | 37  | 14           | 40          |             |             |             |                |         |
|     |        | F     | 8 27  | 02  |              |             |             |             |             |                |         |
| 36  | Mar 2  | L     | 6 29  | 31  |              |             |             |             |             |                |         |
|     |        | F     | 6 29  | 41  |              |             |             |             |             |                |         |
|     |        | F     | 6 31  | 00  |              |             |             |             |             |                |         |
| 37  | " 2    | F     | 12 34 | 40  |              |             |             |             |             |                |         |
|     |        | F     | 12 35 | 26  |              |             |             |             |             |                |         |
| 38  | " 4    | F     | 11 06 | 41  |              |             |             |             |             |                |         |
|     |        | F     | 12 18 | 10  |              |             |             |             |             |                |         |
| 39  | " 8    | F     | 11 45 | 47  |              |             |             |             |             |                |         |
|     |        | F     | 11 46 | 20  |              |             |             |             |             |                |         |
| 40  | " 8    | F     | 11 46 | 55  |              |             |             |             |             |                |         |
|     |        | F     | 11 47 | 36  |              |             |             |             |             |                |         |
| 41  | " 8    | F     | 11 48 | 15  |              |             |             |             |             |                |         |
|     |        | F     | 11 49 | 03  |              |             |             |             |             |                |         |
| 42  | " 8    | F     | 18 16 | 17  |              |             |             |             |             |                |         |
|     |        | F     | 18 16 | 44  |              |             |             |             |             |                |         |
| 43  | " 11   | F     | 5 49  | 09  |              |             |             |             |             |                |         |
|     |        | F     | 5 49  | 50  |              |             |             |             |             |                |         |
| 44  | " 11   | L     | 11 58 | 46  |              |             |             |             |             |                |         |
|     |        | F     | 11 59 | 00  |              |             |             |             |             |                |         |
|     |        | F     | 12 00 | 57  |              |             |             |             |             |                |         |
| 45  | " 11   | F     | 13 11 | 22  |              |             |             |             |             |                |         |
|     |        | F     | 13 11 | 50  |              |             |             |             |             |                |         |
| 46  | " 12   | L     | 11 56 | 52  |              |             |             |             |             |                |         |
|     |        | F     | 11 57 | 01  |              |             |             |             |             |                |         |
|     |        | F     | 11 57 | 28  |              |             |             |             |             |                |         |
| 47  | " 13   | F     | 5 53  | 55  |              |             |             |             |             |                |         |
|     |        | F     | 5 54  | 41  |              |             |             |             |             |                |         |
| 48  | " 14   | F     | 0 54  | 33  |              |             |             |             |             |                |         |
|     |        | F     | 0 54  | 46  |              |             |             |             |             |                |         |
| 49  | " 15   | L     | 10 37 | 32  |              |             |             |             |             |                |         |
|     |        | S     | 10 42 | 40  |              |             |             |             |             |                |         |
|     |        | L     | 10 43 | 32  |              |             |             |             |             |                |         |
|     |        | MN    | 10 51 | 18  | 163          | 182         |             |             |             |                |         |
|     |        | F     | 11 55 | -   |              |             |             |             |             |                |         |

3247  
Strong and  
longish



No. 4

from March to April, 1924

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\varphi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Onori Horizontal Pendulum (mass 16 kg.)

T.  $\epsilon$   $r/T$ . V  
 AN: 16  
 AE: 30  
 AZ: 20

| No. | Date    | Phase          | Time<br>h m s                                | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | AZ<br>$\mu$ | $\Delta$<br>km | Remarks |
|-----|---------|----------------|----------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|---------|
| 50  | Mar. 16 | e F            | 16 35 35<br>16 37 04                         |              |             |                          |             |                |         |
| 51  | " 19    | P<br>L F       | 2 09 25<br>2 09 34<br>2 10 58                |              |             |                          |             |                |         |
| 52  | " 19    | e F            | 21 27 42<br>21 28 13                         |              |             |                          |             |                |         |
| 53  | " 19    | e F            | 21 47 17<br>21 48 17                         |              |             |                          |             |                |         |
| 54  | " 21    | P<br>L<br>MN F | 12 03 19<br>12 03 32<br>12 03 33<br>12 05 28 | 10           | 15          |                          |             |                |         |
| 55  | " 21    | P<br>L<br>MN F | 12 12 58<br>12 13 11<br>12 13 12<br>12 14 55 | 12           | 27          |                          |             |                |         |
| 56  | " 22    | e F            | 5 46 10<br>5 47 09                           |              |             |                          |             |                |         |
| 57  | " 23    | e L<br>MN F    | 12 35 36<br>12 35 56<br>12 35 59<br>12 38 02 | 12           | - 35        |                          |             |                |         |
| 58  | " 25    | e F            | 19 27 39<br>19 28 45                         |              |             |                          |             |                |         |
| 59  | " 25    | e L<br>MN F    | 22 15 47<br>22 15 53<br>22 15 54<br>22 17 24 | 10           | + 45        |                          |             |                |         |
| 60  | " 26    | e L<br>MN F    | 14 01 24<br>14 01 36<br>14 01 37<br>14 04 27 | 07           | 105         |                          |             |                |         |
| 61  | " 28    | e L<br>MN F    | 11 33 06<br>11 33 24<br>11 33 30<br>11 35 30 | 14           | 90          |                          |             |                |         |
| 62  | " 31    | e F            | 20 54 09<br>20 54 58                         |              |             |                          |             |                |         |
| 63  | Apr. 1  | P<br>L F       | 4 44 02<br>4 49 12<br>4 51 32                |              |             |                          |             |                |         |



No.

from April 1 to April 15 1924.

(甲 第四號)

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

|      |    |            |      |    |
|------|----|------------|------|----|
| T.   | .  | $\epsilon$ | r/T. | V  |
| AN : |    |            |      |    |
| AE : | 30 |            |      | 20 |
| AZ : |    |            |      |    |

| No. | Date   | Phase | Time<br>h m s | Period<br>s. | AN<br>$\mu$ | Amplitude   |   | AZ<br>$\mu$ | $\Delta$<br>km | Remarks |
|-----|--------|-------|---------------|--------------|-------------|-------------|---|-------------|----------------|---------|
|     |        |       |               |              |             | AE<br>$\mu$ | V |             |                |         |
| 64  | Apr. 1 | L     | 11 14 20      |              |             |             |   |             |                |         |
|     | "      | F     | 11 15 00      |              |             |             |   |             |                |         |
| 65  | "      | L     | 12 47 01      |              |             |             |   |             |                |         |
|     | "      | F     | 12 48 28      |              |             |             |   |             |                |         |
| 66  | "      | L     | 16 45 18      |              |             |             |   |             |                |         |
|     | "      | L     | 16 45 25      |              |             |             |   |             |                |         |
|     | "      | MN    | 16 45 26      | 07           | 22          |             |   |             |                |         |
|     | "      | F     | 16 45 58      |              |             |             |   |             |                |         |
| 67  | "      | P     | 3 14 03       |              |             |             |   |             |                |         |
|     | "      | L     | 3 14 24       |              |             |             |   |             |                |         |
|     | "      | MN    | 3 14 32       | 12           | 70          |             |   |             |                |         |
|     | "      | F     | 3 17 30       |              |             |             |   |             |                |         |
| 68  | "      | L     | 5 53 30       |              |             |             |   |             |                |         |
|     | "      | L     | 5 53 49       |              |             |             |   |             |                |         |
|     | "      | MN    | 5 54 04       | 14           | 40          |             |   |             |                |         |
|     | "      | F     | 5 55 43       |              |             |             |   |             |                |         |
| 69  | "      | P     | 13 10 15      |              |             |             |   |             |                |         |
|     | "      | L     | 13 10 25      |              |             |             |   |             |                |         |
|     | "      | MN    | 13 10 36      | 05           | 10          |             |   |             |                |         |
|     | "      | F     | 13 13 44      |              |             |             |   |             |                |         |
| 70  | "      | L     | 4 16 17       |              |             |             |   |             |                |         |
|     | "      | L     | 4 16 28       |              |             |             |   |             |                |         |
|     | "      | MN    | 4 16 29       | 05           | 23          |             |   |             |                |         |
|     | "      | F     | 4 17 30       |              |             |             |   |             |                |         |
| 71  | "      | L     | 13 18 50      |              |             |             |   |             |                |         |
|     | "      | L     | 13 18 57      |              |             |             |   |             |                |         |
|     | "      | MN    | 13 18 58      | 10           | 46          |             |   |             |                |         |
|     | "      | F     | 13 20 12      |              |             |             |   |             |                |         |
| 72  | "      | L     | 17 47 48      |              |             |             |   |             |                |         |
|     | "      | L     | 17 48 05      |              |             |             |   |             |                |         |
|     | "      | MN    | 17 48 06      | 14           | 75          |             |   |             |                |         |
|     | "      | F     | 17 49 34      |              |             |             |   |             |                |         |
| 73  | "      | L     | 13 03 30      |              |             |             |   |             |                |         |
|     | "      | F     | 13 04 40      |              |             |             |   |             |                |         |
| 74  | "      | P     | 13 49 25      |              |             |             |   |             |                |         |
|     | "      | S     | 13 51 20      |              |             |             |   |             |                |         |
|     | "      | L     | 13 53 25      |              |             |             |   |             |                |         |
|     | "      | F     | 14 30         |              |             |             |   |             |                |         |
| 75  | "      | L     | 15 12 53      |              |             |             |   |             |                |         |
|     | "      | F     | 15 14 48      |              |             |             |   |             |                |         |
| 76  | "      | L     | 15 53 25      |              |             |             |   |             |                |         |
|     | "      | F     | 15 54 47      |              |             |             |   |             |                |         |



# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\varphi = 25^{\circ} 02.3$     $\lambda = 121^{\circ} 30.8$     $h = 8.0$  m.   Underground ; alluvial.  
 Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | $r/T$ . | V   |
|---------|------------|---------|-----|
| AN : 16 |            |         |     |
| AE : 30 |            |         | 120 |
| AZ :    |            |         | 20  |

| No. | Date   | Phase | Time |       | Period<br>s. | AN<br>$\mu$ | Amplitude   |             | AZ<br>$\mu$ | $\Delta$<br>km | Remarks |
|-----|--------|-------|------|-------|--------------|-------------|-------------|-------------|-------------|----------------|---------|
|     |        |       | h    | m s   |              |             | AE<br>$\mu$ | AN<br>$\mu$ |             |                |         |
| 77  | Apr 14 | P.    | 16   | 22 40 |              |             |             |             |             |                |         |
|     |        | L.    | 16   | 23 57 |              |             |             |             |             |                |         |
|     |        | ME    | 16   | 26 53 |              |             |             |             |             |                |         |
|     |        | ME    | 16   | 28 36 |              |             |             |             |             |                |         |
|     |        | ME    | 16   | 56 10 |              |             |             |             |             |                |         |
|     |        | F     | 18   | 38 40 |              |             |             |             |             |                |         |
| 78  | " 15   | L.    | 21   | 08 16 |              |             |             |             |             |                |         |
|     |        | F     | 21   | 29 -  |              |             |             |             |             |                |         |
| 79  | " 16   | L.    | 4    | 12 55 |              |             |             |             |             |                |         |
|     |        | L.    | 4    | 13 04 |              |             |             |             |             |                |         |
|     |        | ME    | 4    | 13 05 | 0.5          |             |             |             |             |                |         |
|     |        | F     | 4    | 14 11 |              |             |             |             |             |                |         |
| 80  | " 21   | L.    | 16   | 21 25 |              |             |             |             |             |                |         |
|     |        | F     | 16   | 34 40 |              |             |             |             |             |                |         |
| 81  | " 22   | L.    | 11   | 10 29 |              |             |             |             |             |                |         |
|     |        | F     | 11   | 11 15 |              |             |             |             |             |                |         |
| 82  | " 25   | L.    | 12   | 17 00 |              |             |             |             |             |                |         |
|     |        | F     | 12   | 17 34 |              |             |             |             |             |                |         |
| 83  | " "    | L.    | 18   | 09 54 |              |             |             |             |             |                |         |
|     |        | F     | 18   | 34 28 |              |             |             |             |             |                |         |
| 84  | " 26   | L.    | 23   | 38 25 |              |             |             |             |             |                |         |
|     |        | F     | 23   | 40 17 |              |             |             |             |             |                |         |
| 85  | " 27   | L.    | 12   | 54 57 |              |             |             |             |             |                |         |
|     |        | F     | 12   | 56 36 |              |             |             |             |             |                |         |
| 86  | " "    | L.    | 15   | 14 47 |              |             |             |             |             |                |         |
|     |        | F     | 15   | 15 18 |              |             |             |             |             |                |         |
|     |        | F     | 15   | 17 33 |              |             |             |             |             |                |         |
| 87  | " 28   | L.    | 4    | 09 17 |              |             |             |             |             |                |         |
|     |        | F     | 4    | 09 44 |              |             |             |             |             |                |         |
| 88  | " "    | L.    | 11   | 02 03 |              |             |             |             |             |                |         |
|     |        | F     | 11   | 02 51 |              |             |             |             |             |                |         |
| 89  | " "    | L.    | 14   | 20 02 |              |             |             |             |             |                |         |
|     |        | F     | 14   | 20 56 |              |             |             |             |             |                |         |
| 90  | " 29   | L.    | 7    | 02 55 |              |             |             |             |             |                |         |
|     |        | F     | 7    | 03 43 |              |             |             |             |             |                |         |
| 91  | " "    | L.    | 21   | 03 05 |              |             |             |             |             |                |         |
|     |        | F     | 21   | 37 25 |              |             |             |             |             |                |         |
|     | " 30   | P.    | 11   | 14 34 |              |             |             |             |             |                |         |
|     |        | L.    | 11   | 14 42 |              |             |             |             |             |                |         |
|     |        | ME    | 11   | 14 47 |              |             |             |             |             |                |         |
|     |        | F     | 11   | 17 05 |              |             |             |             |             |                |         |

Sinusoidal wave.

100



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | r/T. | V   |
|--------|------------|------|-----|
| AN: 16 |            |      | 120 |
| AE: 30 |            |      | 20  |
| AZ:    |            |      |     |

| No. | Date    | Phase                         | Time<br>h m s                                                        | Period<br>s.         | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | AZ<br>$\mu$ | $\Delta$<br>km | Remarks                             |
|-----|---------|-------------------------------|----------------------------------------------------------------------|----------------------|-------------|--------------------------|-------------|----------------|-------------------------------------|
| 93  | Apr. 30 | e<br>F                        | 12 16 41<br>12 17 33                                                 |                      |             |                          |             |                | Local shock                         |
| 94  | " "     | e<br>F                        | 20 43 26<br>20 44 04                                                 |                      |             |                          |             |                | Do.                                 |
| 95  | " "     | e<br>F                        | 22 49 12<br>22 59 34                                                 |                      |             |                          |             |                | Do.                                 |
| 96  | May 1   | e<br>F                        | 3 49 05<br>3 51 03                                                   |                      |             |                          |             |                | Do.                                 |
| 97  | " 4     | e<br>F                        | 17 07 33<br>17 08 26                                                 |                      |             |                          |             |                | Do.                                 |
| 98  | " "     | e<br>F                        | 17 11 18<br>17 40 36                                                 |                      |             |                          |             |                | Do.                                 |
| 99  | " 5     | e<br>F                        | 18 41 09<br>18 42 05                                                 |                      |             |                          |             |                | Do.                                 |
| 100 | " "     | e<br>F                        | 21 33 20<br>21 34 55                                                 |                      |             |                          |             |                | Do.                                 |
| 101 | " 6     | P<br>LN<br>MN<br>F            | 15 11 08<br>15 11 22<br>15 11 24<br>15 14 03                         | 2.9                  | 169         |                          |             |                | Do.                                 |
| 102 | " "     | P<br>L<br>ME<br>MN<br>MN<br>F | 16 11 58<br>16 14 05<br>16 15 44<br>16 17 23<br>16 19 16<br>16 36 00 | 2.50<br>1.39<br>1.44 | 615<br>535  | 2138                     |             |                | Local shock.                        |
| 103 | " 7     | e<br>F                        | 19 21 00<br>19 21 45                                                 |                      |             |                          |             |                | Do.                                 |
| 104 | " 12    | e<br>F                        | 13 31 32<br>13 32 13                                                 |                      |             |                          |             |                |                                     |
| 105 | " 13    | e<br>F                        | 0 56 08<br>0 59 29                                                   |                      |             |                          |             |                |                                     |
| 106 | " "     | P<br>L<br>ME<br>F             | 19 15 46<br>19 15 58<br>19 15 59<br>19 25 30                         | 0.5                  |             | 283                      |             |                | Felt Northern Formosa               |
| 107 | " 16    | L<br>F                        | 12 56 57<br>13 38 50                                                 |                      |             |                          |             |                | Very faint sinusoidal L waves.      |
|     |         |                               |                                                                      |                      |             |                          |             |                | Should be read to phase 16h 25m 56s |

Errata. In the Bulletin No. 6, quake No. 77 should be read to phase 16h 23m 57s. instead of 16h 23m 57s.



# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | r/T. | V   |
|--------|------------|------|-----|
| AN: 16 |            |      |     |
| AE: 30 |            |      | 120 |
| AZ: 20 |            |      |     |

| No. | Date   | Phase                    | Time<br>h m s                                       | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | AZ<br>$\mu$ | $\Delta$<br>km | Remarks                                       |
|-----|--------|--------------------------|-----------------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|-----------------------------------------------|
| 108 | May 17 | e<br>F                   | 5 19 19<br>6 20 -                                   |              |             |                          |             |                | Very faint sinusoidal L waves.                |
| 109 | " 18   | e<br>L<br>F              | 11 52 46<br>11 53 12<br>11 55 25                    |              |             |                          |             |                | Felt in S. Formosa.                           |
| 110 | " 21   | e<br>L<br>MN<br>F        | 7 41 43<br>7 42 00<br>7 42 07<br>7 44 04            | 1.0          | 25          |                          |             |                | Local shock.                                  |
| 111 | " 24   | e<br>F                   | 2 26 -<br>2 53 -                                    |              |             |                          |             |                | Very faint sinusoidal L waves.                |
| 112 | " 25   | Pi<br>L<br>MN<br>ME<br>F | 4 57 40<br>4 57 52<br>4 57 52<br>4 57 55<br>5 04 46 | ?<br>0.6     | > 258       | 98                       |             |                | N-S pen was deflected off the recording drum. |
| 113 | " "    | e<br>F                   | 13 51 20<br>13 52 36                                |              |             |                          |             |                | Local shock.                                  |
| 114 | " 26   | e<br>F                   | 17 18 57<br>17 20 39                                |              |             |                          |             |                | Do.                                           |
| 115 | " 28   | e<br>F                   | 2 29 12<br>2 30 32                                  |              |             |                          |             |                | Do.                                           |
| 116 | " "    | P<br>S<br>L<br>F         | 9 57 52<br>10 01 59<br>10 04 40<br>10 28 -          |              |             |                          |             |                |                                               |
| 117 | " "    | e<br>L<br>F              | 13 04 21<br>13 04 30<br>13 05 50                    |              |             |                          |             |                | Local shock.                                  |
| 118 | " "    | e<br>F                   | 15 45 06<br>15 45 56                                |              |             |                          |             |                | Do.                                           |
| 119 | " 29   | e<br>F                   | 21 00 23<br>21 01 34                                |              |             |                          |             |                | Do.                                           |
| 120 | " 31   | e<br>F                   | 12 10 -<br>12 35 -                                  |              |             |                          |             |                | Very faint sinusoidal L waves.                |
| 121 | " "    | e<br>F                   | 12 35 -<br>12 59 -                                  |              |             |                          |             |                | Do.                                           |
| 122 | June 1 | e<br>F                   | 7 55 58<br>7 57 02                                  |              |             |                          |             |                | Local shock.                                  |
| 123 | " 2    | e<br>F                   | 13 39 28<br>13 41 15                                |              |             |                          |             |                | Do.                                           |



## TAIHOKU, FORMOSA, JAPAN.

(甲 第四 號)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\phi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      |     |
| AE : 30 |            |      | 120 |
| AZ :    |            |      | 20  |

| No. | Date   | Phase                                                   | G.M.T.<br>Time<br>h m s                                                                                   | Period<br>s.                 | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | AZ<br>$\mu$                                 | $\Delta$<br>km | Remarks |
|-----|--------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------|-------------|--------------------------|---------------------------------------------|----------------|---------|
| 124 | June 3 | e F                                                     | 15 56 08<br>15 57 40                                                                                      |                              |             | Local shock.             |                                             |                |         |
| 125 | " 4    | e F                                                     | 14 01 05<br>14 01 54                                                                                      |                              |             | Do.                      |                                             |                |         |
| 126 | " 6    | e F                                                     | 14 49 39<br>14 51 11                                                                                      |                              |             | Do.                      |                                             |                |         |
| 127 | " 8    | e F                                                     | 19 28 24<br>19 29 26                                                                                      |                              |             | Do.                      |                                             |                |         |
| 128 | " 16   | P<br>L<br>ME<br>F                                       | 0 17 14<br>0 17 32<br>0 17 34<br>0 19 36                                                                  | 1.9                          |             | 30                       | Local shock.<br>Felt at Sunan (SW Formosa). |                |         |
| 129 | " 24   | P<br>L<br>F                                             | 14 35 29<br>14 35 42<br>14 37 02                                                                          |                              |             | Local shock.             |                                             |                |         |
| 130 | " 26   | P<br>SE<br>SN<br>LE<br>LN<br>ME<br>MN<br>ME<br>ME<br>Fe | 1 50 26<br>2 00 56<br>2 00 58<br>2 06 44<br>2 06 41<br>2 07 04<br>2 07 14<br>2 13 38<br>2 18 59<br>4 41 - | 2.50<br>2.00<br>2.60<br>32.0 | 92          | 150<br>338<br>200        |                                             |                |         |
| 131 | " "    | P<br>LN<br>MN<br>F                                      | 18 28 50<br>18 29 21<br>18 29 25<br>18 31 05                                                              | 1.0                          | 16          | Local shock.             |                                             |                |         |
| 132 | " 27   | e F                                                     | 23 04 53<br>23 06 09                                                                                      |                              |             | Do.                      |                                             |                |         |
| 133 | " 29   | e F                                                     | 8 32 05<br>8 33 12                                                                                        |                              |             | Do.                      |                                             |                |         |
| 134 | " 30   | e<br>LE<br>LN<br>ME<br>ME<br>ME<br>Fe                   | 15 50 09<br>15 55 16<br>15 55 27<br>15 55 32<br>15 58 14<br>16 01 25<br>17 02 -                           | 192<br>307<br>166            |             | 53<br>60<br>50           |                                             |                |         |
| 135 | July 1 | e F                                                     | 15 07 56<br>15 09 59                                                                                      |                              |             | Local shock.             |                                             |                |         |
| 136 | " 2    | e F                                                     | 19 17 03<br>19 19 22                                                                                      |                              |             | Do.                      |                                             |                |         |



No. 10

from July 3 to July 9, 1924.

(甲 第四 號)

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02' 3$   $\lambda=121^{\circ} 30' 8$   $h=8.0$  m. Underground; alluvial.

Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date   | Phase | Time<br>h m s | Period<br>s. | Amplitude<br>A <sub>E</sub> $\mu$ | A <sub>N</sub> $\mu$ | A <sub>Z</sub> $\mu$ | $\Delta$<br>km | Remarks                                                                                       |
|-----|--------|-------|---------------|--------------|-----------------------------------|----------------------|----------------------|----------------|-----------------------------------------------------------------------------------------------|
| 137 | July 3 | P     | 4 46 59       |              |                                   |                      |                      | 3789           |                                                                                               |
|     |        | SN    | 4 52 31       |              |                                   |                      |                      |                |                                                                                               |
|     |        | SE    | 4 52 35       |              |                                   |                      |                      |                |                                                                                               |
|     |        | LE    | 4 58 33       |              |                                   |                      |                      |                |                                                                                               |
|     |        | LN    | 4 58 34       |              |                                   |                      |                      |                |                                                                                               |
|     |        | MN    | 4 59 19       |              |                                   |                      |                      |                |                                                                                               |
|     |        | ME    | 4 59 40       |              |                                   |                      |                      |                |                                                                                               |
|     |        | CE    | 5 01 30       |              |                                   |                      |                      |                |                                                                                               |
|     |        | FE    | 6 22 -        |              |                                   |                      |                      |                |                                                                                               |
| 138 | "      | e     | 10 45 40      |              |                                   |                      |                      |                |                                                                                               |
|     |        | F     | 10 47 12      |              |                                   |                      |                      |                |                                                                                               |
| 139 | " 5    | e     | 6 25 44.0     |              |                                   |                      |                      | 114            |                                                                                               |
|     |        | L     | 6 25 59.4     |              |                                   |                      |                      |                |                                                                                               |
|     |        | MN    | 6 25 59.6     | 07           | 15                                | Do.                  |                      |                |                                                                                               |
|     |        | F     | 6 27 47.0     |              |                                   |                      |                      |                |                                                                                               |
| 140 | "      | e     | 17 15 26      |              |                                   |                      |                      |                |                                                                                               |
|     |        | L     | 17 16 19      |              |                                   |                      |                      |                |                                                                                               |
|     |        | F     | 17 20 26      |              |                                   |                      |                      |                |                                                                                               |
| 141 | "      | e     | 23 05 -       |              |                                   |                      |                      |                |                                                                                               |
|     |        | FE    | 23 16 -       |              |                                   |                      |                      |                | Very faint sinusoidal L waves.                                                                |
| 142 | " 6    | e     | 18 50 15      |              |                                   |                      |                      |                |                                                                                               |
|     |        | F     | 19 19 39      |              |                                   |                      |                      |                |                                                                                               |
| 143 | "      | P     | 21 09 49.0    |              |                                   |                      |                      |                |                                                                                               |
|     |        | LN    | 21 10 19.7    |              |                                   |                      |                      |                |                                                                                               |
|     |        | MN    | 21 10 34.6    |              |                                   |                      |                      |                |                                                                                               |
|     |        | F     | 21 20 00.0    | 14           | 122                               |                      |                      |                | File in SE coast of Formosa. Epicenter presumably 10 miles E of Taito. (SE coast of Formosa). |
| 144 | "      | e     | 23 31 09      |              |                                   |                      |                      |                |                                                                                               |
|     |        | F     | 23 33 53      |              |                                   |                      |                      |                | Epicenter: same as No. 143.                                                                   |
| 145 | " 7    | e     | 8 53 53       |              |                                   |                      |                      |                |                                                                                               |
|     |        | F     | 9 09 54       |              |                                   |                      |                      |                | Record is very irregular.                                                                     |
| 146 | "      | e     | 9 30 37       |              |                                   |                      |                      |                |                                                                                               |
|     |        | F     | 9 32 51       |              |                                   |                      |                      |                | Local shock.                                                                                  |
| 147 | "      | e     | 9 40 55       |              |                                   |                      |                      |                | Do.                                                                                           |
|     |        | F     | 9 41 53       |              |                                   |                      |                      |                |                                                                                               |
| 148 | " 8    | e     | 15 59 06      |              |                                   |                      |                      |                |                                                                                               |
|     |        | F     | 15 59 58      |              |                                   |                      |                      |                | Do.                                                                                           |
| 149 | " 9    | e     | 11 48 22      |              |                                   |                      |                      |                |                                                                                               |
|     |        | F     | 11 49 47      |              |                                   |                      |                      |                | Do.                                                                                           |



No.

from July 11 to

July 22 1924.

(甲 第 四 號)

## TAIHOKEU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02'.3$   $\lambda = 121^{\circ} 30'.8$   $h = 8.0$  m. Underground; alluvial.

Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date    | Phase                                       | G. M. T.<br>Time<br>h m s                                                                   | Period<br>s.     | Amplitude<br>A <sub>E</sub> $\mu$ | Amplitude<br>A <sub>N</sub> $\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks                                                                                                      |
|-----|---------|---------------------------------------------|---------------------------------------------------------------------------------------------|------------------|-----------------------------------|-----------------------------------|-------------|----------------|--------------------------------------------------------------------------------------------------------------|
| 150 | July 11 | P<br>SE<br>LNE<br>NE<br>NN<br>NE<br>CE<br>F | 19 51 43<br>19 57 11<br>20 03 34<br>20 04 20<br>20 04 27<br>20 06 42<br>20 07 46<br>21 40 - | 18.7<br>?<br>178 | > -790                            | -1600<br>-738                     |             | 3667           | Reflected off the sheet.                                                                                     |
| 51  | " 12    | L<br>LE<br>NE<br>F                          | 15 27 09<br>15 36 25<br>15 40 40<br>16 18 -                                                 | 120              |                                   | 80                                |             |                | F marks in micro.                                                                                            |
| 52  | " 14    | L<br>L<br>NN<br>F                           | 0 34 45<br>0 35 07<br>0 35 09<br>0 36 53                                                    | 10               | 37                                |                                   |             |                | Shake at Aizawa (E coast)                                                                                    |
| 53  | " "     | P<br>L<br>NN<br>NE<br>F                     | 12 04 44<br>12 04 59<br>12 05 00<br>12 05 01<br>12 09 44                                    | 13<br>14         | 469                               | 500                               |             |                | Shake in N Formosa. Epicenter<br>approximately 20 miles NE of Aizawa.                                        |
| 54  | " "     | L<br>F                                      | 16 26 23<br>16 27 13                                                                        |                  |                                   |                                   |             |                | Local shock.                                                                                                 |
| 55  | " 17    | L<br>F                                      | 11 51 41<br>11 52 54                                                                        |                  |                                   |                                   | Do.         |                |                                                                                                              |
| 56  | " 20    | L<br>NN<br>F                                | 18 47 12<br>18 47 30<br>18 47 35<br>18 49 48                                                | 07               | 15                                |                                   | Do.         |                |                                                                                                              |
| 57  | " 21    | L<br>F                                      | 0 51 -<br>1 09 -                                                                            |                  |                                   |                                   |             |                | Very faint sinusoidal L waves.                                                                               |
| 58  | " "     | L<br>F                                      | 11 58 13<br>11 59 18                                                                        |                  |                                   |                                   |             |                | Local shock.                                                                                                 |
| 159 | " "     | L<br>F                                      | 12 04 12<br>12 05 32                                                                        |                  |                                   |                                   | Do.         |                |                                                                                                              |
| 160 | " "     | L<br>F                                      | 18 31 35<br>18 32 32                                                                        |                  |                                   |                                   | Do.         |                |                                                                                                              |
| 161 | " "     | L<br>F                                      | 22 33 14<br>22 34 34                                                                        |                  |                                   |                                   | Do.         |                |                                                                                                              |
| 162 | " 22    | P<br>L<br>NN<br>F                           | 14 24 22<br>14 24 40<br>14 24 40<br>15 15 -                                                 | ?                | > 5150                            |                                   |             |                | Both pens were deflected off the sheet. Tilt<br>in whole island. Epicenter approximately<br>23.8 N, 122.3 E. |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02'.3$   $\lambda=121^{\circ} 30'.8$   $h=8.0$  m. Underground; alluvial.

Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date    | Phase                         | G. M. T.<br>Time<br>h m s                | Period<br>s. | Amplitude<br>A <sub>E</sub> $\mu$ | Amplitude<br>A <sub>N</sub> $\mu$ | A <sub>Z</sub> $\mu$ | $\Delta$ km | Remarks                                         |
|-----|---------|-------------------------------|------------------------------------------|--------------|-----------------------------------|-----------------------------------|----------------------|-------------|-------------------------------------------------|
| 163 | July 22 | e F                           | 14 30 56<br>14 31 30                     |              |                                   |                                   |                      |             | Local shock.                                    |
| 164 | "       | e F                           | 14 43 06<br>14 44 03                     |              |                                   |                                   |                      |             | Do.                                             |
| 165 | "       | e F                           | 17 05 38<br>17 06 26                     |              |                                   |                                   |                      |             | Do.                                             |
| 166 | "       | e F                           | 20 40 15<br>20 41 10                     |              |                                   |                                   |                      |             | Do.                                             |
| 167 | " 24    | e F                           | 5 18 05<br>5 28 -                        |              |                                   |                                   |                      |             | Very faint record. Pand F mass in microt.       |
| 168 | " 25    | e F                           | 13 01 09<br>13 01 52                     |              |                                   |                                   |                      |             | Local shock.                                    |
| 169 | " 29    | P <sub>2</sub> F              | 5 24 31<br>6 17 -                        |              |                                   |                                   |                      |             | The record is very faint, may be distant quake. |
| 170 | " 31    | e F                           | 15 40 14<br>15 41 41                     |              |                                   |                                   |                      |             | Local shock.                                    |
| 171 | Aug. 1  | e L<br>MN F                   | 8 27 19<br>8 27 34<br>8 27 34<br>8 29 54 | 25           | 42                                |                                   |                      |             | Do. Felt at Kadenhō (E coast)                   |
| 172 | "       | e L<br>MN F                   | 9 10 03<br>9 10 23<br>9 10 37<br>9 13 30 | 24           | 72                                |                                   |                      |             | Do.                                             |
| 173 | "       | e F                           | 11 47 07<br>11 49 05                     |              |                                   |                                   |                      |             | Do.                                             |
| 174 | " 2     | e                             | 20 39 27                                 |              |                                   |                                   |                      |             | Do. Foretaken by following quake.               |
| 175 | "       | L F                           | 20 40 11<br>20 43 13                     |              |                                   |                                   |                      |             | Do. P merged in the tail preceding quake.       |
| 176 | "       | e L F                         | 20 55 50<br>20 56 02<br>20 59 14         |              |                                   |                                   |                      |             | Do.                                             |
| 177 | "       | e F                           | 22 55 53<br>22 57 33                     |              |                                   |                                   |                      |             | Do.                                             |
| 178 | " 8     | e F                           | 8 44 56<br>8 46 49                       |              |                                   |                                   |                      |             | Do.                                             |
| 179 | " 10    | L <sub>0</sub> F <sub>0</sub> | 5 46 -<br>6 07 -                         |              |                                   |                                   |                      |             | Very faint sinusoidal L waves.                  |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02'.3$   $\lambda = 121^{\circ} 30'.8$   $h = 8.0$  m. Underground; alluvial.

Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.   |    | $\varepsilon$ | r/T. | V   |
|------|----|---------------|------|-----|
| AN : | 16 |               |      | 120 |
| AE : | 30 |               |      | 20  |
| Az : |    |               |      |     |

| No. | Date    | Phase                                                                                       | G. M. T.                                                            |     | Period<br>s. | Amplitude           |                     |  | Az<br>μ                                                                     | Δ<br>km | Remarks |
|-----|---------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----|--------------|---------------------|---------------------|--|-----------------------------------------------------------------------------|---------|---------|
|     |         |                                                                                             | h                                                                   | m s |              | A <sub>E</sub><br>μ | A <sub>N</sub><br>μ |  |                                                                             |         |         |
| 180 | Aug. 14 | P<br>S <sub>E</sub><br>L <sub>E</sub><br>M <sub>N</sub><br>M <sub>E</sub><br>F <sub>E</sub> | 18 07 26<br>18 11 25<br>18 16 14<br>18 18 00<br>18 18 06<br>19 58 - |     | 139<br>153   | 153                 | 355                 |  | 2433<br><br>Micros heavy.                                                   |         |         |
| 181 | " "     | L<br>S <sub>E</sub><br>L <sub>E</sub><br>F                                                  | 23 31 13<br>23 35 23<br>23 40 05<br>0 18 -                          |     |              |                     |                     |  | Δ 2578 km.<br>very faintly recorded.<br>N-S component both in heavy micros. |         |         |
| 182 | " "     | L<br>M <sub>N</sub><br>F                                                                    | 3 47 24<br>3 47 37<br>3 47 37<br>3 49 49                            |     | 1.0          | 93                  |                     |  | Local shock.                                                                |         |         |
| 183 | " 16    | P<br>L<br>M <sub>E</sub><br>F                                                               | 22 24 44.0<br>22 24 57.9<br>22 24 58.4<br>22 29 00.0                |     | 1.0          |                     | 248                 |  | Do. Felt at Taihoku.                                                        |         |         |
| 184 | " 17    | S <sub>E</sub><br>L <sub>E</sub><br>M <sub>E</sub><br>F                                     | 1 53 40<br>1 59 49<br>2 01 18<br>- - -                              |     | 130          |                     | 45                  |  | Overtaken by following quake.<br>heavy micros.                              |         |         |
| 185 | " "     | P <sub>E</sub><br>S <sub>E</sub><br>L <sub>E</sub><br>M <sub>E</sub><br>F                   | 2 13 07<br>2 19 04<br>2 24 49<br>2 26 05<br>3 06 -                  |     | 139          |                     | 90                  |  | Δ 4156 km.<br>Heavy micros.                                                 |         |         |
| 186 | " 21    | P <sub>N</sub><br>L <sub>N</sub><br>F                                                       | 18 06 55<br>18 07 03<br>18 07 58                                    |     |              |                     |                     |  | Local shock.                                                                |         |         |
| 187 | " "     | P<br>F                                                                                      | 18 10 47<br>18 12 02                                                |     |              |                     |                     |  | Do.                                                                         |         |         |
| 188 | " 22    | P<br>L<br>M <sub>N</sub><br>F                                                               | 13 02 240<br>13 02 317<br>13 02 317<br>13 03 380                    |     | 0.5          | 28                  |                     |  | Do.                                                                         |         |         |
| 189 | " "     | P<br>F                                                                                      | 18 02 11<br>18 03 36                                                |     |              |                     |                     |  | Do.                                                                         |         |         |
| 190 | " 23    | P<br>L<br>M <sub>N</sub><br>F                                                               | 0 17 16.0<br>0 17 26.1<br>0 17 26.1<br>0 19 14.0                    |     | 0.5          | 31                  |                     |  | Do.                                                                         |         |         |
| 191 | " "     | P<br>L<br>M <sub>N</sub><br>F                                                               | 23 18 030<br>23 18 19.8<br>23 18 21.7<br>23 24 43.0                 |     | 1.0          | 173                 |                     |  | Felt at Kurembo (E Coast).                                                  |         |         |



## TAIHOKEU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02'.3$   $\lambda = 121^{\circ} 30'.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date    | Phase                    | G. M. T.<br>Time<br>h m s                                          | Period<br>s.         | $A_E$<br>$\mu$ | Amplitude<br>$A_N$<br>$\mu$ | $A_z$<br>$\mu$                                                                                                                  | $\Delta$<br>km | Remarks |
|-----|---------|--------------------------|--------------------------------------------------------------------|----------------------|----------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------|---------|
| 192 | Aug. 24 | P<br>L<br>MN<br>F        | 0 59 03.0<br>0 59 25.3<br>0 59 26.2<br>1 02 05.0                   | 0.7                  | 69             |                             |                                                                                                                                 | Local shock.   |         |
| 193 | " 25    | e<br>F                   | 2 45 18<br>2 47 28                                                 |                      |                |                             | Do.                                                                                                                             |                |         |
| 194 | " "     | e<br>S<br>L<br>ME<br>F   | 14 35 35<br>14 40 19<br>14 44 25<br>14 47 45<br>15 35 -            | 144                  |                | 160                         | $\Delta$ 3011 km.                                                                                                               |                |         |
| 195 | " 28    | e<br>F                   | 3 51 08<br>3 51 57                                                 |                      |                |                             | Local shock.                                                                                                                    |                |         |
| 196 | " "     | e<br>F                   | 13 19 10<br>13 20 02                                               |                      |                |                             | Do.                                                                                                                             |                |         |
| 197 | " "     | P<br>L<br>MN<br>ME<br>F  | 15 22 04.0<br>15 22 13.6<br>15 22 14.6<br>15 22 14.6<br>15 25 14.0 | 1.0<br>1.4           | 271            | 145                         | Felt at Karento (E coast).                                                                                                      |                |         |
| 198 | " "     | e<br>F                   | 15 28 58<br>15 29 55                                               |                      |                |                             | Local shock.                                                                                                                    |                |         |
| 199 | " "     | e<br>F                   | 15 36 26<br>15 37 32                                               |                      |                |                             | Do.                                                                                                                             |                |         |
| 200 | " "     | e<br>F                   | 15 48 19<br>15 49 20                                               |                      |                |                             | Do.                                                                                                                             |                |         |
| 201 | " "     | L<br>F                   | 21 56 22<br>22 20 -                                                |                      |                |                             | Very faint sinusoidal L wave.                                                                                                   |                |         |
| 202 | " 29    | e<br>F                   | 3 15 40<br>3 16 45                                                 |                      |                |                             | Local shock.                                                                                                                    |                |         |
| 203 | " "     | e<br>F                   | 5 53 02<br>5 54 02                                                 |                      |                |                             | Do.                                                                                                                             |                |         |
| 204 | " "     | e<br>L<br>MN<br>F        | 9 16 29.0<br>9 16 38.6<br>9 16 41.0<br>9 18 25.0                   | 1.0                  | 27             |                             | Felt at Karento.                                                                                                                |                |         |
| 205 | " "     | e<br>F                   | 11 57 24<br>11 58 43                                               |                      |                |                             | Local shock.                                                                                                                    |                |         |
| 206 | " 30    | P<br>L<br>MN<br>ME<br>ME | 3 06 48<br>3 10 07<br>3 12 49<br>3 12 54<br>3 15 12                | 2.16<br>2.59<br>2.06 | 450            | 1925<br>1475                | Press report strong earthquake felt in Mindanao and there were damage at Misamis. Before the end came following quake appeared. |                |         |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02' .3$  $\lambda=121^{\circ} 30' .8$  $h=8.0$  m.

Underground; alluvial.

Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date    | Phase                                      | G. M. T.<br>h m s                            | Period<br>s. | Amplitude<br>A <sub>E</sub> $\mu$ | Amplitude<br>A <sub>N</sub> $\mu$ | A <sub>Z</sub> $\mu$ | $\Delta$<br>km | Remarks                                           |
|-----|---------|--------------------------------------------|----------------------------------------------|--------------|-----------------------------------|-----------------------------------|----------------------|----------------|---------------------------------------------------|
| 207 | Aug. 30 | e<br>L<br>F                                | 4 22 45<br>4 22 59<br>4 25 05                |              |                                   |                                   |                      |                | Local shock.                                      |
| 208 | " "     | P<br>L<br>ME<br>F                          | 4 43 36<br>4 43 50<br>4 44 00<br>4 56 08     | 1.9          |                                   | 736                               |                      |                | Felt in N Formosa.<br>N-S component out of scale. |
| 209 | " "     | P <sub>a</sub><br>F                        | 9 08 56<br>9 09 46                           |              |                                   |                                   |                      |                | Local shock.                                      |
| 210 | " 31    | e<br>L<br>F                                | 19 10 27<br>19 10 37<br>19 11 55             |              |                                   |                                   |                      |                | Do.                                               |
| 211 | " "     | e<br>F                                     | 20 19 11<br>20 20 14                         |              |                                   |                                   |                      |                | Do.                                               |
| 212 | Sept. 5 | P<br>L<br>ME<br>F                          | 21 23 56<br>21 24 09<br>21 24 17<br>21 26 23 | 1.0          |                                   | 37                                |                      |                | Do.                                               |
| 213 | " 8     | e<br>F                                     | 1 41 49<br>1 43 57                           |              |                                   |                                   |                      |                | Do.                                               |
| 214 | " 9     | e<br>F                                     | 3 41 34<br>3 42 38                           |              |                                   |                                   |                      |                | Do.                                               |
| 215 | " 10    | e<br>F                                     | 15 34 50<br>15 35 55                         |              |                                   |                                   |                      |                | Do.                                               |
| 216 | " "     | e<br>F                                     | 17 12 25<br>17 13 34                         |              |                                   |                                   |                      |                | Do.                                               |
| 217 | " 11    | P <sub>e</sub><br>S <sub>N</sub><br>L<br>F | 3 30 14<br>3 34 01<br>3 39 44<br>4 15 -      |              |                                   |                                   |                      |                | Very faint record.                                |
| 218 | " 13    | e<br>F                                     | 6 21 42<br>6 22 33                           |              |                                   |                                   |                      |                | Local shock.                                      |
| 219 | " "     | S <sub>N</sub><br>L<br>F                   | 15 12 10<br>15 16 28<br>15 50 -              |              |                                   |                                   |                      |                | Moderate micros.                                  |
| 220 | " 14    | P<br>L<br>F                                | 14 12 09<br>14 15 04<br>15 43 -              |              |                                   |                                   |                      |                |                                                   |
| 221 | " 16    | e<br>F                                     | 3 04 24<br>3 23 -                            |              |                                   |                                   |                      |                | Very faint sinusoidal L waves.                    |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02'.3$   $\lambda=121^{\circ} 30'.8$   $h=8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date     | Phase              | G. M. T.<br>Time<br>h m s                    | Period<br>s. | Amplitude<br>$A_E$ $\mu$ | $A_N$ $\mu$ | $A_z$ $\mu$ | $\Delta$ km                                                                                     | Remarks |
|-----|----------|--------------------|----------------------------------------------|--------------|--------------------------|-------------|-------------|-------------------------------------------------------------------------------------------------|---------|
| 222 | Sept. 17 | P<br>LN<br>MN<br>F | 17 40 46<br>17 40 55<br>17 40 58<br>17 42 40 | 0.6          | 33                       |             |             | Local shock.                                                                                    |         |
| 223 | " 18     | P<br>LN<br>MN<br>F | 1 13 05<br>1 16 46<br>1 18 49<br>1 47 --     | 7.2          | 12                       |             |             | Strong earthquake in Tokio.                                                                     |         |
| 224 | " 24     | P<br>LN<br>MN<br>F | 6 03 25<br>6 03 42<br>6 03 46<br>6 05 32     | 1.9          | 21                       |             |             | Local shock.                                                                                    |         |
| 225 | " "      | P<br>F             | 6 08 35<br>6 09 28                           |              |                          |             |             | Do.                                                                                             |         |
| 226 | " 26     | P<br>LN<br>F       | 23 19 51<br>23 20 03<br>23 21 13             |              |                          |             |             | Do.                                                                                             |         |
| 227 | " 27     | P<br>F             | 7 58 10<br>8 01 40                           |              |                          |             |             |                                                                                                 |         |
| 228 | " "      | P<br>F             | 8 58 12<br>9 02 49                           |              |                          |             |             |                                                                                                 |         |
| 229 | " 28     | P<br>F             | 0 13 28<br>0 15 00                           |              |                          |             |             | Local shock.                                                                                    |         |
| 230 | " "      | P<br>LN<br>MN<br>F | 11 59 48<br>12 00 19<br>12 00 43<br>12 07 22 | 1.2          | 25                       |             |             | Strong micros.                                                                                  |         |
| 231 | Oct. 1   | P<br>LN<br>MN<br>F | 8 54 22<br>8 54 52<br>8 55 03<br>8 57 09     | 1.0          | 17                       |             |             |                                                                                                 |         |
| 232 | " 6      | P<br>LN<br>MN<br>F | 3 20 58<br>3 21 12<br>3 21 15<br>3 23 12     | 1.4          | 61                       |             |             | Local shock.                                                                                    |         |
| 233 | " "      | P<br>LN<br>MN<br>F | 18 22 25<br>18 22 37<br>18 22 43<br>18 24 25 | 1.0          | 25                       |             |             | Do.                                                                                             |         |
| 234 | " 7      | P<br>LN<br>MN<br>F | 20 56 42<br>20 56 53<br>20 56 54<br>21 01 02 | 1.2          |                          | 5.08        |             | N-S Component out of scale.<br>Origin off E coast of Formosa.<br>Felt in NE part of the island. |         |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02' .3$   $\lambda=121^{\circ} 30' .8$   $h=8.0$  m. Underground; alluvial.

Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date  | Phase                         | G. M. T.<br>h m s                                        | Period<br>s. | Amplitude<br>A <sub>E</sub> $\mu$ | Amplitude<br>A <sub>N</sub> $\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks                                                                                                       |
|-----|-------|-------------------------------|----------------------------------------------------------|--------------|-----------------------------------|-----------------------------------|-------------|----------------|---------------------------------------------------------------------------------------------------------------|
| 235 | Oct 8 | P<br>L<br>ME<br>F             | 4 58 59<br>4 59 09<br>4 59 10<br>5 03 55                 | 1.2          |                                   | 868                               |             |                | N-S component, deflected off drum.<br>Origin off E coast of Formosa.<br>Felt by New half part of the islands. |
| 236 | "     | LE<br>ME<br>F                 | 20 45 19<br>20 51 52<br>21 50 -                          | 10.6         |                                   | 70                                |             |                | Sumatral $\Delta$ waves. F missed in records.                                                                 |
| 237 | " 10  | P<br>L<br>ME<br>MN<br>F       | 21 14 26<br>21 14 34<br>21 14 37<br>21 14 38<br>21 16 57 | 12<br>14     | 344                               | 138                               |             |                | Origin off E coast of Formosa.<br>Felt in N part of the island.                                               |
| 238 | " 11  | P<br>L<br>ME<br>MN<br>F       | 8 12 05<br>8 12 15<br>8 12 16<br>8 12 21<br>8 16 11      | 10<br>?      | 185                               | 120                               |             |                | Diast.                                                                                                        |
| 239 | " 13  | e<br>Le<br>F                  | 16 25 42<br>16 31 45<br>17 07 -                          |              |                                   |                                   |             |                | Very faint irregular record.<br>$\Delta$ 2694 km.                                                             |
| 240 | " 14  | e<br>L<br>F                   | 16 58 56<br>16 59 07<br>17 01 25                         |              |                                   |                                   |             |                | Local shock.                                                                                                  |
| 241 | " 18  | P <sup>2</sup><br>S<br>L<br>F | 19 38 12<br>19 39 32<br>19 40 52<br>20 00 54             |              |                                   |                                   |             |                | Irregular record. $\Delta$ 744 km.                                                                            |
| 242 | " 19  | P<br>L<br>MN<br>F             | 3 36 44<br>3 36 16<br>3 37 22<br>3 39 33                 | 10           | 52                                |                                   |             |                | Local shock.                                                                                                  |
| 243 | " 20  | P<br>S<br>L<br>ME<br>F        | 20 07 30<br>20 10 55<br>20 13 45<br>20 18 11<br>21 25 -  | 20.6         |                                   | 10                                |             |                | $\Delta$ 2072 km.                                                                                             |
| 244 | " 21  | e<br>F                        | 17 32 23<br>17 33 12                                     |              |                                   |                                   |             |                | Local shock.                                                                                                  |
| 245 | " 23  | e<br>L<br>MN<br>F             | 12 26 48<br>12 26 55<br>12 26 56<br>12 28 54             | ?            | 59                                |                                   |             |                | Do.                                                                                                           |
| 246 | " 25  | e<br>F                        | 13 51 07<br>18 53 18                                     |              |                                   |                                   |             |                | Do.                                                                                                           |



# TAIHOKU, FORMOSA, JAPAN.

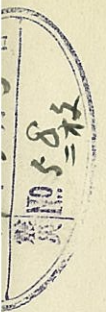
## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\varphi = 25^{\circ} 02' .3$      $\lambda = 121^{\circ} 30' .8$      $h = 8.0$  m.    Underground; alluvial.  
 Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date    | Phase      | G. M. T.<br>Time<br>h m s                                | Period<br>s. | Amplitude<br>$A_E$ $\mu$ | Amplitude<br>$A_N$ $\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks                                           |
|-----|---------|------------|----------------------------------------------------------|--------------|--------------------------|--------------------------|-------------|----------------|---------------------------------------------------|
| 247 | Oct. 27 | e F        | 20 01 12<br>20 28 05                                     |              |                          |                          |             |                | Very faint record.                                |
| 248 | " 30    | e F        | 7 01 59<br>7 04 45                                       |              |                          |                          |             |                | Local shock.                                      |
| 249 | " "     | e F        | 7 58 24<br>8 00 58                                       |              |                          |                          | Do.         |                | Do.                                               |
| 250 | " "     | e F        | 21 29 33<br>21 30 57                                     |              |                          |                          | Do.         |                | Do.                                               |
| 251 | Nov. 2  | e L F      | 10 31 04<br>10 31 18<br>10 33 10                         |              |                          |                          | Do.         |                | Do.                                               |
| 252 | " "     | P L MN F   | 11 25 31<br>11 26 07<br>11 26 13<br>11 26 14<br>11 30 43 | 19<br>19     | 604                      | 175                      |             |                | Felt in S Formosa. Origin near Kijian, S Formosa. |
| 253 | " "     | e F        | 18 21 18<br>18 23 18                                     |              |                          |                          |             |                | Local shock.                                      |
| 254 | " 8     | e L F      | 5 54 40<br>5 54 52<br>5 55 34                            |              |                          |                          |             |                | Very heavy tremor with small amplitude.           |
| 255 | " 9     | e F        | 5 06 04<br>5 06 24                                       |              |                          |                          |             |                |                                                   |
| 256 | " "     | e F        | 5 13 56<br>5 14 17                                       |              |                          |                          |             |                |                                                   |
| 257 | " 11    | P L MN F   | 11 44 23<br>11 44 42<br>11 44 44<br>11 49 00             | 17           | 98                       |                          |             |                |                                                   |
| 258 | " "     | P L MN F   | 15 01 54<br>15 02 13<br>15 02 15<br>15 04 02             | 17           | 23                       |                          |             |                |                                                   |
| 259 | " 12    | P S L MN F | 16 32 43<br>16 32 55<br>16 33 06<br>16 33 18<br>16 35 37 | 10           | 26                       |                          |             |                |                                                   |
| 260 | " 23    | e F        | 21 38 03<br>21 39 30                                     |              |                          |                          |             |                |                                                   |
| 261 | " 25    | e F        | 10 46 54<br>10 48 14                                     |              |                          |                          |             |                |                                                   |





No. 19

from Nov 25 to Dec 27 1924

(甲 第四 號)

# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\varphi=25^{\circ} 02'.3$   $\lambda=121^{\circ} 30'.8$   $h=8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date    | Phase                    | G. M. T.<br>Time<br>h m s                    | Period<br>s. | Amplitude<br>A <sub>E</sub> $\mu$ | A <sub>N</sub> $\mu$ | A <sub>Z</sub> $\mu$ | $\Delta$<br>km | Remarks |
|-----|---------|--------------------------|----------------------------------------------|--------------|-----------------------------------|----------------------|----------------------|----------------|---------|
| 262 | Nov. 25 | e<br>F                   | 17 32 24<br>17 34 40                         |              |                                   |                      |                      |                |         |
| 263 | Dec. 5  | e<br>L <sub>E</sub><br>F | 9 41 28<br>9 45 35<br>9 57 14                |              |                                   |                      |                      | 2336           |         |
| 264 | " 8     | e<br>L<br>F              | 0 11 49<br>0 11 58<br>0 23 45                |              | Local shock.                      |                      |                      |                |         |
| 265 | " 11    | P<br>L<br>ME<br>F        | 3 03 21<br>3 03 29<br>3 03 31<br>3 07 12     | 05           | Do.                               | 175                  |                      | $\Delta=60$    |         |
| 266 | " 12    | P<br>L<br>F              | 5 58 06<br>5 58 14<br>5 59 41                |              | Do.                               |                      |                      | $\Delta=61$    |         |
| 267 | " 14    | P<br>L<br>F              | 13 07 10<br>13 07 17<br>13 08 49             |              | Do.                               |                      |                      | $\Delta=53$    |         |
| 268 | " 15    | e<br>F                   | 21 05 25<br>21 31 45                         |              |                                   |                      |                      |                |         |
| 269 | " "     | e<br>F                   | 23 18 12<br>23 20 16                         |              | Local shock.                      |                      |                      |                |         |
| 270 | " 18    | e<br>F                   | 13 20 46<br>13 21 42                         |              | Do.                               |                      |                      |                |         |
| 271 | " 19    | e<br>F                   | 11 06 05<br>11 07 44                         |              | Do.                               |                      |                      |                |         |
| 272 | " 21    | e<br>L<br>F              | 16 36 50<br>16 37 07<br>16 38 35             |              | Do.                               |                      |                      | $\Delta=128$   |         |
| 273 | " 26    | e<br>F                   | 13 21 58<br>13 23 00                         |              | Do.                               |                      |                      |                |         |
| 274 | " 27    | e<br>L<br>F              | 2 56 41<br>2 56 52<br>2 58 16                |              | Do. Felt in N part<br>of Formosa. |                      |                      | $\Delta=79$    |         |
| 275 | " "     | P<br>L<br>F              | 11 28 08<br>11 32 42<br>12 03 -              |              |                                   |                      |                      | $\Delta=2512$  |         |
| 276 | " "     | P<br>L<br>MN<br>F        | 12 30 23<br>12 30 37<br>12 30 38<br>12 35 27 | 10           | Local shock.<br>32                |                      |                      | $\Delta=103$   |         |



No. 20.

from Dec. 27 to Dec. 31 1924 (甲 第四號)

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02'.3$   $\lambda=121^{\circ} 30'.8$   $h=8.0$  m. Underground; alluvial.

Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date    | Phase                              | G. M. T.<br>Time<br>h m s                                                      | Period<br>s.      | Amplitude<br>AE $\mu$ AN $\mu$ | Az $\mu$ | $\Delta$<br>km | Remarks |
|-----|---------|------------------------------------|--------------------------------------------------------------------------------|-------------------|--------------------------------|----------|----------------|---------|
| 277 | Dec. 27 | P <sub>F</sub>                     | 13 29 08<br>13 36 46                                                           |                   | Local shock.                   |          |                |         |
| 278 | " 28    | P<br>S<br>L<br>ME<br>MN<br>MN<br>F | 23 00 56<br>23 05 50<br>23 10 15<br>23 10 47<br>23 12 06<br>23 15 12<br>0 30 - | 240<br>216<br>163 | +392<br>-219                   | +820     | $\Delta=28.4$  |         |
| 279 | " 30    | e<br>F                             | 4 39 29<br>4 40 54                                                             |                   | Local shock.                   |          |                |         |
| 280 | " 31    | e<br>L<br>MN<br>F                  | 14 58 25<br>14 58 33<br>14 58 33<br>14 58 18                                   | 0.4               | Do.<br>10                      |          | $\Delta=57$    |         |





No. 1

from January 1 to Jan. 25 1925

(甲 第四號)

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02' .3$   $\lambda=121^{\circ} 30' .8$   $h=8.0$  m. Underground; alluvial.

Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date   | Phase                                  | G. M. T.<br>h m s                                       | Period<br>s. | Amplitude<br>A <sub>E</sub> $\mu$ | Amplitude<br>A <sub>N</sub> $\mu$ | A <sub>Z</sub> $\mu$ | $\Delta$<br>km | Remarks                        |
|-----|--------|----------------------------------------|---------------------------------------------------------|--------------|-----------------------------------|-----------------------------------|----------------------|----------------|--------------------------------|
| 1   | Jan. 3 | e<br>F                                 | 8 39 41<br>9 01 -                                       |              |                                   |                                   |                      |                | Very faint sinusoidal L waves. |
| 2   | " 6    | e<br>F                                 | 9 16 02<br>9 17 04                                      |              |                                   |                                   |                      |                | Local shock.                   |
| 3   | " 8    | e<br>L<br>F                            | 13 55 12<br>13 55 28<br>13 56 51                        |              |                                   |                                   |                      |                | Do.                            |
| 4   | " 9    | L<br>F                                 | 18 17 -<br>18 32 -                                      |              |                                   |                                   |                      |                | Faint sinusoidal L waves.      |
| 5   | " 10   | e<br>F                                 | 15 03 35<br>15 04 15                                    |              |                                   |                                   |                      |                | Local shock.                   |
| 6   | " 11   | e<br>F                                 | 13 36 22<br>13 37 18                                    |              |                                   |                                   |                      |                | Do.                            |
| 7   | " 13   | e<br>F                                 | 16 56 02<br>16 57 59                                    |              |                                   |                                   |                      |                | Do.                            |
| 8   | " 17   | e<br>F                                 | 22 17 15<br>22 18 07                                    |              |                                   |                                   |                      |                | Do.                            |
| 9   | " 18   | e<br>F                                 | 8 37 09<br>8 37 45                                      |              |                                   |                                   |                      |                | Do.                            |
| 10  | " "    | P <sub>e</sub><br>SE<br>LE<br>NLE<br>F | 12 12 32<br>12 11 42<br>12 21 42<br>12 25 20<br>13 53 - | 26.5         | 1385                              |                                   |                      | $\Delta 30\%$  |                                |
| 11  | " 20   | e<br>LN<br>F                           | 7 32 38<br>7 32 50<br>7 34 50                           |              |                                   |                                   |                      |                | Local shock. Record hasty.     |
| 12  | " 21   | P <sub>N</sub><br>LN<br>F              | 3 47 58<br>3 48 11<br>3 50 37                           |              |                                   |                                   |                      |                | Do.                            |
| 13  | " "    | e<br>F                                 | 13 36 41<br>13 38 41                                    |              |                                   |                                   |                      |                | Local shock.                   |
| 14  | " "    | P <sub>N</sub><br>LN<br>MN<br>F        | 18 09 19<br>18 09 49<br>18 10 23<br>18 12 27            | 08           |                                   |                                   |                      |                | Hasty record.<br>48            |
| 15  | " 23   | e<br>F                                 | 7 32 25<br>7 33 54                                      |              |                                   |                                   |                      |                | Local shock                    |
| 16  | " 25   | e<br>L<br>F                            | 2 02 54<br>2 09 05<br>2 10 22                           |              |                                   |                                   |                      |                | Do.                            |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02'.3$   $\lambda=121^{\circ} 30'.8$   $h=8.0$  m. Underground; alluvial.

Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\varepsilon$ | r/T. | V   |
|---------|---------------|------|-----|
| AN : 16 |               |      | 120 |
| AE : 30 |               |      | 20  |
| Az :    |               |      |     |

| No. | Date    | Phase                               | G. M. T.<br>Time<br>h m s                                                | Period<br>s. | Amplitude<br>$\mu$ | $\Delta$<br>km                   | Remarks |
|-----|---------|-------------------------------------|--------------------------------------------------------------------------|--------------|--------------------|----------------------------------|---------|
| 17  | Jan. 27 | P<br>L<br>ME<br>MN<br>F             | 5 39 57<br>5 40 13<br>5 40 16<br>5 40 18<br>5 43 05                      | 08<br>14     | 68<br>-175         | Local shock                      |         |
| 18  | " 28    | P<br>F                              | 1 45 59<br>1 46 44                                                       |              |                    | Do.                              |         |
| 19  | " "     | P<br>SE<br>SN<br>L<br>ME<br>MN<br>F | 4 11 45<br>4 16 06<br>4 16 28<br>4 19 55<br>4 21 56<br>4 23 45<br>5 52 - | 221<br>180   | -1343              | $\Delta N 269$                   |         |
| 20  | " 29    | P<br>F                              | 20 14 38<br>20 15 36                                                     |              | -246               | Local shock.                     |         |
| 21  | " 30    | Le<br>F                             | 17 47 20<br>18 23 -                                                      |              |                    | Very faint sinusoidal L waves.   |         |
| 22  | " 31    | P<br>L<br>MN<br>F                   | 10 19 30<br>10 19 41<br>10 19 42<br>10 21 10                             | 14           | 19                 | Local shock.                     |         |
| 23  | " "     | Le<br>F                             | 17 16 26<br>17 32 -                                                      |              |                    | Faint sinusoidal L waves.        |         |
| 24  | Feb. 1  | Se<br>L<br>ME<br>F                  | 5 34 57<br>5 38 37<br>5 40 03<br>6 35 -                                  | 192          | 160                |                                  |         |
| 25  | " 2     | L<br>F                              | 11 53 -<br>12 09 -                                                       |              |                    | Do.                              |         |
| 26  | " "     | S<br>L<br>ME                        | 13 40 13<br>13 43 33<br>13 46 45                                         | 192          | 375                | F lost <sup>in</sup> next quake. |         |
| 27  | " "     | L<br>F                              | 14 26 -<br>15 02 -                                                       |              |                    | Very faint record.               |         |
| 28  | " "     | L                                   | 19 37 -                                                                  |              |                    | F lost in next quake.            |         |
| 29  | " "     | PE<br>SE<br>LE<br>ME<br>F           | 19 53 50<br>19 58 07<br>20 01 08<br>20 03 33<br>21 13 -                  | 240          | 483                | $\Delta = 24.9$                  |         |
| 30  | " "     | L<br>F                              | 22 28 -<br>22 48 -                                                       |              |                    | Very faint sinusoidal L waves.   |         |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\varphi = 25^{\circ} 02' 3$   $\lambda = 121^{\circ} 30' 8$   $h = 8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |    | $\varepsilon$ | r/T. | V   |
|------|----|---------------|------|-----|
| AN : | 16 |               |      | 120 |
| AE : | 30 |               |      | 20  |
| Az : |    |               |      |     |

| No. | Date   | Phase        | G. M. T.<br>Time<br>h m s                    | Period<br>s. | AE<br>μ | Amplitude |    | Az<br>μ | Δ<br>km | Remarks                                                                        |
|-----|--------|--------------|----------------------------------------------|--------------|---------|-----------|----|---------|---------|--------------------------------------------------------------------------------|
|     |        |              |                                              |              |         | AN        | AE |         |         |                                                                                |
| 31  | Feb. 3 | L<br>F       | 2 41 -<br>2 52 -                             |              |         |           |    |         |         | Very faint sinuoidal L waves.                                                  |
| 32  | "      | L<br>MN<br>F | 8 15 49<br>8 15 57<br>8 16 03<br>8 18 10     | 0.6          |         | 30        |    |         |         | Local shock.                                                                   |
| 33  | "      | L<br>F       | 22 13 45<br>22 14 55                         |              |         |           |    |         | Do.     |                                                                                |
| 34  | " 4    | L<br>F       | 10 22 -<br>10 34 -                           |              |         |           |    |         |         | Very faint sinuoidal L waves.                                                  |
| 35  | " 5    | L<br>MN<br>F | 11 48 05<br>11 48 15<br>11 48 16<br>11 50 40 | 1.0          |         | 38        |    |         |         | Local shock.                                                                   |
| 36  | " 7    | P<br>L<br>ME | 18 12 30<br>18 18 44<br>18 18 53             | 1.4          | 20.25   |           |    |         |         | F lost in next quake. N comp.<br>out of scale. Felt in NE part<br>off Formosa. |
| 37  | "      | P<br>F       | 18 29 00<br>18 30 35                         |              |         |           |    |         |         | Local shock.                                                                   |
| 38  | "      | P<br>L<br>F  | 18 39 10<br>18 39 23<br>18 40 35             |              |         |           |    |         | Do.     |                                                                                |
| 39  | "      | P<br>F       | 18 44 10<br>18 44 50                         |              |         |           |    |         | Do.     |                                                                                |
| 40  | "      | P<br>F       | 18 45 59<br>18 47 01                         |              |         |           |    |         | Do.     |                                                                                |
| 41  | "      | P<br>F       | 18 48 42<br>18 50 05                         |              |         |           |    |         | Do.     |                                                                                |
| 42  | "      | P<br>F       | 19 49 01<br>19 49 56                         |              |         |           |    |         | Do.     |                                                                                |
| 43  | "      | P<br>F       | 20 18 22<br>20 19 01                         |              |         |           |    |         | Do.     |                                                                                |
| 44  | "      | P<br>F       | 20 53 01<br>20 53 40                         |              |         |           |    |         | Do.     |                                                                                |
| 45  | " 8    | P<br>F       | 11 47 29<br>11 48 24                         |              |         |           |    |         | Do.     |                                                                                |
| 46  | "      | P<br>F       | 14 09 37<br>14 11 19                         |              |         |           |    |         | Do.     |                                                                                |
| 47  | "      | P<br>L<br>F  | 15 03 00<br>15 03 11<br>15 06 03             |              |         |           |    |         | Do.     |                                                                                |



No.

from to 192

(甲 第四 號)

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

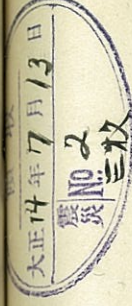
of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02' .3$   $\lambda = 121^{\circ} 30' .8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date   | Phase              | G. M. T.<br>Time<br>h m s                    | Period<br>s. | Amplitude<br>AN $\mu$ | AE $\mu$ | Az $\mu$ | $\Delta$<br>km                                                                                      | Remarks      |
|-----|--------|--------------------|----------------------------------------------|--------------|-----------------------|----------|----------|-----------------------------------------------------------------------------------------------------|--------------|
| 48  | Feb. 8 | P<br>L<br>F        | 15 12 16<br>15 12 27<br>15 14 16             |              |                       |          |          |                                                                                                     | Local shock. |
| 49  | "      | P<br>F             | 20 02 20<br>20 03 02                         |              |                       |          |          | Do.                                                                                                 |              |
| 50  | "      | P<br>F             | 0 09 44<br>0 10 19                           |              |                       |          |          | Do.                                                                                                 |              |
| 51  | "      | P<br>F             | 14 29 43<br>13 26 -                          |              |                       |          |          | Very faint record of distant quake.                                                                 |              |
| 52  | "      | P<br>F             | 15 22 57<br>15 23 44                         |              |                       |          |          | Local shock.                                                                                        |              |
| 53  | "      | P<br>F             | 19 25 34<br>19 26 21                         |              |                       |          |          | Do.                                                                                                 |              |
| 54  | "      | P<br>L<br>F        | 21 12 09<br>21 12 20<br>21 14 09             |              |                       |          |          | Do.                                                                                                 |              |
| 55  | "      | P<br>L<br>F        | 12 48 03<br>12 48 14<br>12 49 34             |              |                       |          |          | Do.                                                                                                 |              |
| 56  | "      | P<br>L<br>MIN<br>F | 15 04 02<br>15 04 13<br>15 04 14<br>15 05 49 | 1.0          | 36                    |          |          | Do.                                                                                                 |              |
| 57  | "      | P<br>F             | 23 25 40<br>23 26 31                         |              |                       |          |          | Do.                                                                                                 |              |
| 58  | "      | P<br>L<br>MIN<br>F | 2 43 21<br>2 43 34<br>2 43 37<br>2 45 20     | 1.0          | 27                    |          |          | Do.                                                                                                 |              |
| 59  | "      | P<br>F             | 10 00 03<br>10 01 07                         |              |                       |          |          | Do.                                                                                                 |              |
| 60  | "      | P<br>L<br>MIN<br>F | 22 53 02<br>22 53 06<br>22 53 06<br>22 55 04 | 0.5          | 80                    |          |          | Motion too hasty to identify. Max. amplitude of N-S component. Local quake. Felt N part of Formosa. |              |
| 61  | "      | P<br>F             | 23 00 52<br>23 01 23                         |              |                       |          |          | Local shock.                                                                                        |              |
| 62  | "      | P<br>F             | 23 07 06<br>23 07 45                         |              |                       |          |          | Do.                                                                                                 |              |
| 63  | "      | P<br>F             | 23 10 00<br>23 10 50                         |              |                       |          |          | Do.                                                                                                 |              |





No. 5

from February 18 to March 8, 1925

(甲 第四號)

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02' . 3$   $\lambda = 121^{\circ} 30' . 8$   $h = 8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |      | r/T. |  | V    |     |
|------|------|------|--|------|-----|
| AN : | 16   | AE : |  | AN : | 120 |
|      | 30   |      |  |      | 20  |
|      | Az : |      |  |      |     |

| No. | Date    | Phase               | G. M. T.<br>Time<br>h m s                                | Period<br>s. | AE<br>μ | Amplitude |         | Az<br>μ | Δ<br>km | Remarks                                                        |
|-----|---------|---------------------|----------------------------------------------------------|--------------|---------|-----------|---------|---------|---------|----------------------------------------------------------------|
|     |         |                     |                                                          |              |         | AN<br>μ   | AN<br>μ |         |         |                                                                |
| 64  | Feb. 18 | $\frac{e}{F}$       | 0 42 58<br>0 43 49                                       |              |         |           |         |         |         | Local shock.                                                   |
| 65  | " 20    | $\frac{L^E}{M^E F}$ | 1 19 04<br>1 21 13<br>2 04 -                             | 202          | 588     |           |         |         |         | The phase P was lost owing to the changing of paper at 9h 10m. |
| 66  | " 21    | $\frac{P^N}{L^N F}$ | 2 06 49<br>2 06 59<br>2 08 34                            |              |         |           |         |         |         | Local shock.                                                   |
| 67  | " "     | $\frac{P^N}{L^N F}$ | 2 35 42<br>2 35 52<br>2 35 53<br>2 37 44                 | 10           |         | 23        |         |         |         | Do.                                                            |
| 68  | " 22    | $\frac{e}{L^N F}$   | 16 57 13<br>16 57 24<br>16 58 51                         |              |         |           |         |         |         | Do.                                                            |
| 69  | " 24    | $\frac{e}{F}$       | 0 28 -<br>1 14 -                                         |              |         |           |         |         |         | Heavy micro-mass Pand F                                        |
| 70  | " "     | $\frac{P^N}{L^N F}$ | 2 10 10<br>2 10 19<br>2 10 22<br>2 11 13                 | 07           |         | 27        |         |         |         | Local shock.                                                   |
| 71  | " "     | $\frac{e}{F}$       | 11 39 04<br>11 40 06                                     |              |         |           |         |         |         | Do.                                                            |
| 72  | " "     | $\frac{e}{F}$       | 14 17 46<br>14 18 45                                     |              |         |           |         |         |         | Do.                                                            |
| 73  | " 28    | $\frac{e}{L^N F}$   | 10 13 32<br>10 13 43<br>10 15 50                         |              |         |           |         |         |         | Do.                                                            |
| 74  | " "     | $\frac{e}{F}$       | 11 06 29<br>11 07 35                                     |              |         |           |         |         |         | Do.                                                            |
| 75  | Mar. 1  | $\frac{L^E}{F}$     | 3 13 -<br>3 50 -                                         |              |         |           |         |         |         | First dimensional L waves.                                     |
| 76  | " "     | $\frac{P^N}{L^N F}$ | 12 26 16<br>12 26 43<br>12 27 06<br>12 27 08<br>12 41 40 | 24<br>26     | +395    | +333      |         |         | Δ 200.  |                                                                |
| 77  | " 2     | $\frac{e}{F}$       | 4 27 16<br>4 28 18                                       |              |         |           |         |         |         | Local shock.                                                   |
| 78  | " 4     | $\frac{e}{F}$       | 0 50 00<br>0 51 03                                       |              |         |           |         |         |         | Do.                                                            |
| 79  | " 5     | $\frac{P^E}{L^E F}$ | 7 44 54<br>7 45 04<br>7 45 08<br>7 47 41                 | 10           | 73      |           |         |         |         | Do.                                                            |
| 80  | " 8     | $\frac{e}{L^N F}$   | 15 34 29<br>15 34 42<br>15 35 55                         |              |         |           |         |         |         | Do.                                                            |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\phi = 25^{\circ} 02' 3$   $\lambda = 121^{\circ} 30' 8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |    | $\varepsilon$ |  | V |     |
|------|----|---------------|--|---|-----|
| r/T. |    |               |  |   |     |
| AN : | 16 |               |  |   | 120 |
| AE : | 30 |               |  |   | 20  |
| Az : |    |               |  |   |     |

| No. | Date   | Phase                           | G. M. T.<br>Time<br>h m s                                      | Period<br>s.      | Amplitude<br>AN $\mu$ | Az $\mu$ | $\Delta$<br>km | Remarks                                                     |
|-----|--------|---------------------------------|----------------------------------------------------------------|-------------------|-----------------------|----------|----------------|-------------------------------------------------------------|
| 81  | Mar. 9 | P<br>L<br>F                     | 13 46 38<br>13 46 49<br>13 49 34                               |                   |                       |          |                | Local shock.                                                |
| 82  | "      | E<br>F                          | 13 58 44<br>13 59 57                                           |                   |                       |          |                | Do                                                          |
| 83  | " 11   | E<br>LN<br>F                    | 2 12 53<br>2 13 19<br>2 15 33                                  |                   |                       |          |                | $\Delta$ 192                                                |
| 84  | " 12   | PE<br>LE<br>ME<br>F             | 7 31 03<br>7 31 14<br>7 31 16<br>7 34 57                       | 12                | 200                   |          |                | Local shock. Felt in N. part of Formosa.                    |
| 85  | "      | E<br>F                          | 10 51 12<br>10 52 15                                           |                   |                       |          |                | Do.                                                         |
| 86  | " 14   | E<br>L<br>F                     | 19 33 09<br>19 33 20<br>19 34 48                               |                   |                       |          |                | Do.                                                         |
| 87  | " 16   | PE<br>SE<br>LE<br>ME<br>F       | 14 46 44<br>14 50 24<br>14 52 47<br>14 54 46<br>15 57 -        | 110               | 985                   |          |                | $\Delta = 2189$ Destructive earthquake in<br>Yunnan, China. |
| 88  | " 17   | E<br>L<br>F                     | 23 58 46<br>0 01 50<br>0 25 -                                  |                   |                       |          |                | $\Delta = 1890$                                             |
| 89  | "      | E<br>L<br>F                     | 23 55 11<br>23 55 33<br>23 57 05                               |                   |                       |          |                |                                                             |
| 90  | " 20   | E<br>F                          | 12 22 28<br>12 41 47                                           |                   |                       |          |                |                                                             |
| 91  | " 22   | PE<br>LE<br>ME<br>ME<br>ME<br>F | 8 52 17<br>9 00 50<br>9 01 30<br>9 08 49<br>9 14 34<br>10 30 - | 250<br>216<br>240 | -128<br>-193<br>+188  |          |                | $\Delta = 4075$                                             |
| 92  | " 26   | E<br>F                          | 10 23 08<br>10 43 -                                            |                   |                       |          |                | irregular waves.                                            |
| 93  | " 27   | E<br>F                          | 4 19 46<br>4 21 03                                             |                   |                       |          |                | Local shock.                                                |
| 94  | "      | E<br>F                          | 8 29 48<br>8 31 25                                             |                   |                       |          |                | Do.                                                         |
| 95  | "      | E<br>F                          | 22 48 02<br>22 49 02                                           |                   |                       |          |                | Do.                                                         |
| 96  | Apr. 1 | PE<br>LE<br>ME<br>F             | 21 55 58<br>21 56 11<br>21 56 14<br>21 57 51                   | 07                | 55                    |          |                | Do.                                                         |



## TAIHOKEU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02' . 3$   $\lambda = 121^{\circ} 30' . 8$   $h = 8.0$  m. Underground; alluvial.

Instrument ; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |  | $\varepsilon$ |  | r/T. |  | V   |  |
|------|--|---------------|--|------|--|-----|--|
| AN : |  | 16            |  |      |  | 120 |  |
| AE : |  | 30            |  |      |  | 20  |  |
| AZ : |  |               |  |      |  |     |  |

| No. | Date   | Phase                                             | G. M. T.                                                 |     | Period<br>s. | Amplitude    |             |             | $\Delta$<br>km  | Remarks                           |
|-----|--------|---------------------------------------------------|----------------------------------------------------------|-----|--------------|--------------|-------------|-------------|-----------------|-----------------------------------|
|     |        |                                                   | h                                                        | m s |              | AE<br>$\mu$  | AN<br>$\mu$ | Az<br>$\mu$ |                 |                                   |
| 97  | Apr. 2 | P <sub>N</sub><br>L <sub>N</sub><br>MN<br>F       | 12 35 29<br>12 35 46<br>12 35 50<br>12 41 02             |     | 1.0          |              | 115         |             |                 | Felt at Tainan.                   |
| 98  | "      | E<br>F                                            | 13 48 23<br>13 50 46                                     |     |              |              |             |             |                 | Local shock.                      |
| 99  | "      | E<br>F                                            | 21 22 12<br>21 24 09                                     |     |              |              |             |             |                 | Do.                               |
| 100 | "      | P <sub>E</sub><br>L <sub>E</sub><br>ME<br>F       | 22 46 52<br>22 47 05<br>22 47 06<br>23 06 10             |     | 1.4          | 888          |             |             |                 | Felt in northern part of Formosa. |
| 101 | " 4    | P <sub>N</sub><br>L <sub>N</sub><br>MN<br>ME<br>F | 13 37 37<br>13 37 57<br>13 37 59<br>13 38 02<br>13 41 57 |     | 2.0<br>2.0   | 150          | 208         |             |                 | Felt at Tainan.                   |
| 102 | "      | E<br>F                                            | 14 11 23<br>14 12 29                                     |     |              |              |             |             |                 | Local shock.                      |
| 103 | " 7    | E<br>L<br>F                                       | 18 09 51<br>18 13 19<br>19 30 -                          |     |              |              |             |             | $\Delta = 2080$ |                                   |
| 104 | " 8    | E<br>F                                            | 13 09 24<br>13 11 16                                     |     |              |              |             |             |                 |                                   |
| 105 | " 9    | E<br>F                                            | 21 51 47<br>21 53 55                                     |     |              |              |             |             |                 |                                   |
| 106 | " 11   | P<br>S<br>L<br>F                                  | 10 54 45<br>11 00 00<br>11 05 15<br>12 22 -              |     |              |              |             |             | $\Delta = 3478$ |                                   |
| 107 | "      | E<br>F                                            | 17 57 58<br>17 59 20                                     |     |              |              |             |             |                 | Local shock.                      |
| 108 | " 13   | P <sub>E</sub><br>F                               | 19 11 25<br>19 12 53                                     |     |              |              |             |             |                 | Do.                               |
| 109 | " 14   | E<br>F                                            | 1 45 53<br>1 52 32                                       |     |              |              |             |             |                 | Do.                               |
| 110 | " 15   | E<br>F                                            | 14 52 57<br>14 53 57                                     |     |              |              |             |             |                 | Do.                               |
| 111 | "      | P<br>L<br>MN<br>ME<br>F                           | 16 35 11<br>16 35 31<br>16 35 34<br>16 35 44<br>16 39 29 |     | 1.9<br>1.9   | +105<br>+110 |             |             | $\Delta = 146$  |                                   |
| 112 | " 16   | E<br>F                                            | 5 41 20<br>5 48 02                                       |     |              |              |             |             |                 |                                   |
| 113 | "      | E<br>F                                            | 5 48 02<br>5 50 45                                       |     |              |              |             |             |                 | Local shock.                      |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\phi = 25^{\circ} 02' .3$   $\lambda = 121^{\circ} 30' .8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument ; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |  | $\varepsilon$ |  | r/T. |  | V   |  |
|------|--|---------------|--|------|--|-----|--|
| AN : |  | 16            |  |      |  | 120 |  |
| AE : |  | 30            |  |      |  | 20  |  |
| AZ : |  |               |  |      |  |     |  |

| No. | Date    | Phase              | G. M. T.                     |                      | Period<br>s. | Amplitude |         |         | $\Delta$<br>km                                 | Remarks                                                                                                                  |
|-----|---------|--------------------|------------------------------|----------------------|--------------|-----------|---------|---------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|     |         |                    | h                            | m s                  |              | AE<br>μ   | AN<br>μ | Az<br>μ |                                                |                                                                                                                          |
| 114 | Apr. 16 | P<br>L<br>F        | 19 53<br>19 54<br>21 35      | 34<br>34<br>-        |              |           |         |         |                                                | Max. of the North components have been lost by the force of shock. Slight displacement $5.6^{\circ}$ W; $\Delta$ 442 km. |
| 115 | " 17    | E<br>F             | 14 57<br>14 59               | 04<br>14             |              |           |         |         |                                                | Local shock.                                                                                                             |
| 116 | " "     | E<br>MN<br>F       | 18 09<br>18 09<br>18 13      | 03<br>51<br>08       | 19           |           |         | 35      |                                                | Local shock.                                                                                                             |
| 117 | " 18    | E<br>F             | 18 54<br>18 57               | 58<br>50             |              |           |         |         |                                                | Do.                                                                                                                      |
| 118 | " 19    | E<br>F             | 15 49<br>16 07               | 48<br>29             |              |           |         |         |                                                | Local shock.                                                                                                             |
| 119 | " 20    | E<br>F             | 15 19<br>15 20               | 15<br>44             |              |           |         |         |                                                | Do.                                                                                                                      |
| 120 | " 21    | E<br>F             | 00 52<br>00 54               | 42<br>08             |              |           |         |         |                                                | Local shock.                                                                                                             |
| 121 | " "     | E<br>F             | 3 22<br>3 24                 | 26<br>44             |              |           |         |         |                                                | Do.                                                                                                                      |
| 122 | " 22    | E<br>L<br>F        | 23 16<br>23 20<br>0 10       | 40<br>58<br>-        |              |           |         |         |                                                | Do.                                                                                                                      |
| 123 | " 24    | P<br>L<br>MN<br>F  | 1 48<br>1 48<br>1 48<br>1 51 | 36<br>51<br>54<br>36 | 14           |           | -90     |         | $\Delta$ 108 Felt in eastern coast of Formosa. |                                                                                                                          |
| 124 | " 25    | E<br>ME<br>MN<br>F | 9 20<br>9 22<br>9 23<br>9 37 | 24<br>20<br>03<br>00 | 96<br>69     |           | -63     |         |                                                | Felt in southern extreme of Formosa.                                                                                     |
| 125 | " "     | E<br>F             | 9 38<br>9 41                 | 22<br>34             |              |           |         |         |                                                |                                                                                                                          |
| 126 | " "     | E<br>F             | 15 52<br>15 53               | 02<br>37             |              |           |         |         |                                                | Local shock.                                                                                                             |
| 127 | " "     | E<br>F             | 18 56<br>18 57               | 04<br>11             |              |           |         |         |                                                | Do.                                                                                                                      |
| 128 | " 26    | E<br>F             | 19 13<br>19 15               | 53<br>40             |              |           |         |         |                                                | Do.                                                                                                                      |
| 129 | " 27    | E<br>L<br>F        | 16 41<br>16 41<br>16 43      | 41<br>52<br>03       |              |           |         |         |                                                |                                                                                                                          |
| 130 | " 28    | E<br>L<br>MN<br>F  | 4 39<br>4 40<br>4 40<br>4 42 | 50<br>17<br>35<br>39 | 24           |           |         | 21      |                                                |                                                                                                                          |
| 131 | " 30    | E<br>F             | 18 26<br>18 28               | 58<br>57             |              |           |         |         |                                                |                                                                                                                          |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02' .3$   $\lambda = 121^{\circ} 30' .8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |  | $\varepsilon$ |  | r/T. |  | V   |  |
|------|--|---------------|--|------|--|-----|--|
| AN : |  | 16            |  |      |  | 120 |  |
| AE : |  | 30            |  |      |  | 20  |  |
| AZ : |  |               |  |      |  |     |  |

| No. | Date  | Phase                                                    | G. M. T.                                     |                                              | Period<br>s.                                | A <sub>E</sub><br>μ | Amplitude           |      | Az<br>μ  | Δ<br>km. | Remarks                                |
|-----|-------|----------------------------------------------------------|----------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------|---------------------|------|----------|----------|----------------------------------------|
|     |       |                                                          | h                                            | m s                                          |                                             |                     | A <sub>N</sub><br>μ |      |          |          |                                        |
| 132 | May 3 | P <sub>NE</sub><br>SE<br>SN<br>LN<br>MM<br>ME<br>F       | 17<br>17<br>17<br>17<br>17<br>17<br>18       | 27<br>31<br>31<br>34<br>36<br>37<br>46       | 00<br>03<br>15<br>22<br>42<br>04<br>-       |                     |                     |      |          | Δ = 2489 |                                        |
| 133 | " 4   | L <sub>E</sub><br>F                                      | 11<br>12                                     | 53<br>09                                     | -<br>-                                      |                     |                     | -218 |          |          | Very slight sinusoidal L waves.        |
| 134 | " "   | L<br>F                                                   | 18<br>18                                     | 13<br>20                                     | 07<br>06                                    |                     |                     |      |          |          | Local shock.                           |
| 135 | " 5   | P <sub>NE</sub><br>SN<br>SE<br>LN<br>LE<br>ME<br>MM<br>F | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>11 | 09<br>12<br>12<br>14<br>14<br>16<br>18<br>35 | 54<br>37<br>38<br>37<br>49<br>38<br>05<br>- |                     |                     |      |          |          |                                        |
| 136 | " "   | L<br>F                                                   | 12<br>12                                     | 01<br>34                                     | 44<br>-                                     |                     |                     |      |          |          | Slight sinusoidal L waves.             |
| 137 | " "   | P <sub>NE</sub><br>SE<br>LE<br>ML<br>F                   | 23<br>23<br>23<br>23<br>0                    | 26<br>30<br>34<br>37<br>15                   | 11<br>53<br>48<br>03<br>-                   |                     |                     |      | Δ = 2989 |          |                                        |
| 138 | " 6   | P <sub>N</sub><br>F                                      | 15<br>15                                     | 36<br>39                                     | 40<br>45                                    |                     |                     |      |          |          | Felt at Garunshi and Koshimi.          |
| 139 | " "   | P<br>LN<br>F                                             | 15<br>15<br>16                               | 57<br>58<br>01                               | 49<br>15<br>10                              |                     |                     |      |          |          | Do.                                    |
| 140 | " 7   | P <sub>E</sub><br>L <sub>E</sub><br>F <sub>L</sub>       | 12<br>12<br>13                               | 14<br>17<br>45                               | 39<br>34<br>36                              |                     |                     |      |          |          | Faint record.                          |
| 141 | " "   | P <sub>NE</sub><br>L <sub>E</sub><br>F                   | 14<br>14<br>15                               | 37<br>39<br>40                               | 13<br>49<br>55                              |                     |                     |      |          |          | Do.                                    |
| 142 | " "   | P <sub>N</sub><br>LN<br>F                                | 18<br>18<br>18                               | 57<br>57<br>59                               | 44<br>55<br>56                              |                     |                     |      |          |          | Local shock.                           |
| 143 | " 13  | P<br>L<br>ML<br>MM<br>F                                  | 23<br>23<br>23<br>23<br>23                   | 31<br>31<br>31<br>31<br>35                   | 29<br>49<br>50<br>50<br>12                  |                     |                     | 99   |          |          | Felt in northern districts of Formosa. |
| 144 | " 14  | L<br>F                                                   | 5<br>5                                       | 35<br>36                                     | 22<br>22                                    |                     |                     | 80   |          |          | Local shock.                           |
| 145 | " "   | L<br>F                                                   | 22<br>22                                     | 24<br>26                                     | 47<br>48                                    |                     |                     |      |          |          | Do.                                    |
| 146 | " 17  | L<br>F                                                   | 9<br>9                                       | 29<br>31                                     | 28<br>08                                    |                     |                     |      |          |          | Do. Felt at Kamsu and Batuan.          |



May 19 to May 26

5

(甲 第四 號)

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.  | $\epsilon$ | r/T. | V  |
|-----|------------|------|----|
| AN: |            |      |    |
| AE: | 30         |      | 20 |
| AZ: |            |      |    |

| No. | Date   | Phase                                        | Time<br>h m s                                                                       | Period<br>s.             | AN<br>$\mu$               | Amplitude<br>AE<br>$\mu$ | AZ<br>$\mu$ | $\Delta$<br>km   | Remarks                                                                                                            |
|-----|--------|----------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|---------------------------|--------------------------|-------------|------------------|--------------------------------------------------------------------------------------------------------------------|
| 147 | May 19 | $\frac{2}{F}$                                | 5 46 40<br>6 41 -                                                                   |                          |                           |                          |             |                  | Sinusoidal L waves                                                                                                 |
| 148 | " 20   | P<br>LE<br>F                                 | 11 09 20<br>11 14 44<br>11 41 -                                                     |                          |                           |                          |             | $\Delta = 28.59$ |                                                                                                                    |
| 149 | " 22   | P <sub>NE</sub><br>SE<br>SW<br>LE<br>F       | 9 44 32<br>9 48 19<br>9 48 26<br>9 51 14<br>10 23 -                                 |                          |                           |                          |             |                  | Faint irregular waves.                                                                                             |
| 150 | " 23   | P <sub>NE</sub><br>LE<br>NW<br>NE<br>NE<br>F | 2 13 26<br>2 16 30<br>2 16 35<br>2 19 21<br>2 19 32<br>2 20 04<br>2 21 44<br>3 26 - | 211<br>216<br>162<br>168 | -1.63<br>-0.385<br>+0.175 | -0.438                   |             |                  | N-S component seen off Japan at 9:52.<br>Destructive earthquake off Japan side<br>crust. Epicenter: N 36.7 E 17.9. |
| 151 | "      | P <sub>NE</sub><br>LE<br>NW<br>F             | 7 35 180<br>7 35 343<br>7 35 401<br>7 49 150                                        | 19                       | 0.43                      |                          |             |                  | Felt over whole region of Formosa<br>except northern and southern portions.<br>Epicenter: N 74.7 E 12.0.           |
| 152 | "      | $\frac{2}{F}$                                | 9 28 24<br>9 29 25                                                                  |                          |                           |                          |             |                  | Local shock.                                                                                                       |
| 153 | "      | P<br>LE<br>LE<br>NE<br>F                     | 21 22 02<br>21 22 15<br>21 22 17<br>21 22 20<br>21 30 45                            | 0.8                      | 0.123                     |                          |             |                  | Felt over whole region of Formosa, except<br>the southern extreme. Epicenter: N 34.0<br>E 12.0.                    |
| 154 | "      | $\frac{2}{F}$                                | 21 48 21<br>21 49 23                                                                |                          |                           |                          |             |                  | Local shock.                                                                                                       |
| 155 | " 24   | P<br>F                                       | 1 23 52<br>lost in next quake.                                                      |                          |                           |                          |             |                  | Felt at Karsun.                                                                                                    |
| 156 | "      | P <sub>NE</sub><br>LE<br>F                   | 1 24 50<br>1 25 07<br>1 55 -                                                        |                          |                           |                          |             |                  | Main not identical because of distance.<br>Felt over the whole region of Formosa.<br>Epicenter: N 23.9 E 12.1.     |
| 157 | "      | $\frac{2}{F}$                                | 1 51 57<br>1 53 57                                                                  |                          |                           |                          |             |                  | Felt at Karsun and Kadamara.                                                                                       |
| 158 | "      | $\frac{2}{F}$                                | 3 10 37<br>3 12 09                                                                  |                          |                           |                          |             |                  | Local shock.                                                                                                       |
| 159 | "      | $\frac{2}{F}$                                | 3 24 23<br>3 25 57                                                                  |                          |                           |                          |             |                  | Do.                                                                                                                |
| 160 | "      | $\frac{2}{F}$<br>LE<br>NW<br>F               | 3 38 47<br>3 39 04<br>3 39 12<br>3 41 31                                            | 12                       | 0.048                     |                          |             |                  | Felt in eastern coast of Formosa.                                                                                  |
| 161 | "      | $\frac{2}{F}$                                | 3 59 43<br>4 01 32                                                                  |                          |                           |                          |             |                  | Felt at Karsun.                                                                                                    |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T   | $\epsilon$ | r/T. | V  |
|-----|------------|------|----|
| 16  |            |      |    |
| AN: |            |      |    |
| AE: | 30         |      | 20 |
| AZ: |            |      |    |

| No. | Date   | Phase                                                      | G. M. T.                                                 |     | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks                                                       |
|-----|--------|------------------------------------------------------------|----------------------------------------------------------|-----|--------------|-------------|-------------|-------------|----------------|---------------------------------------------------------------|
|     |        |                                                            | h                                                        | m s |              | AN<br>$\mu$ | AE<br>$\mu$ | AZ<br>$\mu$ |                |                                                               |
| 162 | May 24 | P <sub>10</sub><br>L <sub>10</sub><br>M <sub>10</sub><br>F | 5 09 55<br>5 10 10<br>5 10 19<br>5 10 31<br>5 17 00      |     | 10<br>10     | 108         | 129         |             |                | Felt in central districts and eastern coast of Formosa.       |
| 163 | "      | E F                                                        | 5 21 46<br>5 23 00                                       |     |              |             |             |             |                |                                                               |
| 164 | "      | E F                                                        | 6 51 41<br>6 53 44                                       |     |              |             |             |             |                | Felt at Kankō and Sankankō.                                   |
| 165 | "      | E F                                                        | 8 58 18<br>9 00 09                                       |     |              |             |             |             |                | Felt at Kankō and Butsum.                                     |
| 166 | "      | E F                                                        | 11 01 31<br>11 03 24                                     |     |              |             |             |             |                | Felt at Kankō.                                                |
| 167 | "      | E F                                                        | 23 15 23<br>23 16 29                                     |     |              |             |             |             |                |                                                               |
| 168 | " 25   | L <sub>2</sub><br>M <sub>2</sub><br>F                      | 3 48 42<br>3 53 31<br>4 46 -                             |     | 206          | 150         |             |             |                | Very faint sinusoidal L waves.                                |
| 169 | "      | L <sub>2</sub><br>F                                        | 16 29 53<br>16 50 -                                      |     |              |             |             |             |                | Very faint sinusoidal L waves. May be after-shock of No. 150. |
| 170 | " 26   | P<br>L <sub>1</sub><br>M <sub>1</sub><br>F                 | 15 37 38<br>15 38 15<br>15 38 49<br>15 39 03<br>15 57 30 |     | 26<br>27     | 613         | 427         |             |                | Felt in central districts.                                    |
| 171 | " 27   | P<br>L <sub>1</sub><br>M <sub>1</sub><br>F                 | 2 33 18<br>2 33 30<br>2 33 35<br>Lost in next quake.     |     | 14           |             | 46          |             |                |                                                               |
| 172 | "      | P <sub>2</sub><br>L <sub>2</sub><br>F                      | 2 35 10<br>2 36 09<br>2 56 -                             |     |              |             |             |             |                | P phase uncertain because of preceding quake.                 |
| 173 | " 29   | L <sub>1</sub><br>F                                        | 6 38 -<br>7 12 -                                         |     |              |             |             |             |                | Very faint sinusoidal L waves.                                |
| 174 | " 30   | E F                                                        | 5 54 40<br>5 56 31                                       |     |              |             |             |             |                | Local shock.                                                  |
| 175 | "      | E<br>L <sub>1</sub><br>F                                   | 15 33 08<br>15 33 19<br>15 34 55                         |     |              |             |             |             |                |                                                               |
| 176 | June 1 | E F                                                        | 15 01 00<br>15 04 10                                     |     |              |             |             |             |                | Do.                                                           |
| 177 | " 2    | P <sub>1</sub><br>L <sub>1</sub><br>M <sub>1</sub><br>F    | 14 25 05<br>14 25 17<br>14 25 21<br>14 26 52             |     | 12           |             | 9           |             |                | Do.                                                           |
| 178 | "      | P <sub>1</sub><br>L <sub>1</sub><br>M <sub>1</sub><br>F    | 19 14 55<br>19 15 09<br>19 15 12<br>19 17 05             |     | 10           |             | 19          |             |                | Do.                                                           |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.  | $\epsilon$ | $r/T$ . | V  |
|-----|------------|---------|----|
| AN: |            |         |    |
| AE: | 30         |         | 20 |
| AZ: |            |         |    |

| No. | Date   | Phase                                                              | G. M. T.<br>Time<br>h m s                                                                                                       | Period<br>s.                  | AN<br>$\mu$          | Amplitude<br>AE<br>$\mu$ | AZ<br>$\mu$ | $\Delta$<br>km | Remarks                                                              |
|-----|--------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------|--------------------------|-------------|----------------|----------------------------------------------------------------------|
| 179 | June 3 | P<br>LNE<br>ME<br>F                                                | 4 39 19<br>4 43 25<br>4 50 16<br>6 02 -                                                                                         | 22.1                          | -1085                |                          |             | 2329           |                                                                      |
| 180 | " 4    | e<br>LN<br>MN<br>F                                                 | 1 20 37<br>1 21 06<br>1 21 52<br>1 33 10                                                                                        | 28                            |                      | +640                     |             | 215            |                                                                      |
| 181 | " "    | e<br>F                                                             | 5 24 43<br>5 27 25                                                                                                              |                               |                      |                          |             |                | Local shock.                                                         |
| 182 | " 5    | P<br>LN<br>MN<br>F                                                 | 0 36 29<br>0 36 41<br>0 36 48<br>0 37 19                                                                                        | 16                            |                      | 17                       |             |                | Felt at Kankoo (eastern coast)                                       |
| 183 | " 6    | e<br>F                                                             | 2 47 04<br>2 52 22                                                                                                              |                               |                      |                          |             |                | Local shock.                                                         |
| 184 | " "    | e<br>F                                                             | 16 38 18<br>16 41 23                                                                                                            |                               |                      |                          |             |                | Do                                                                   |
| 185 | " 8    | e<br>F                                                             | 17 55 00<br>17 56 41                                                                                                            |                               |                      |                          |             |                | Do                                                                   |
| 186 | " 9    | P, N, E<br>AN<br>SE<br>LE<br>LN<br>MN<br>ME<br>MN<br>ME<br>ME<br>F | 13 47 19<br>13 50 03<br>13 50 20<br>13 52 32<br>13 52 48<br>13 52 51<br>13 55 00<br>13 55 13<br>13 58 40<br>14 04 04<br>14 56 - | 58<br>182<br>86<br>216<br>178 | -115<br>-285<br>-153 | -17<br>+23               |             |                | Initial displacement N 45 W?                                         |
| 187 | " 10   | e<br>LN<br>MN<br>MN<br>F                                           | 6 11 36<br>6 11 49<br>6 11 53<br>6 12 03<br>6 13 41                                                                             | 09<br>16                      |                      |                          |             |                | Felt at Kankoo.                                                      |
| 188 | " "    | e<br>LN<br>MN<br>F                                                 | 7 03 59<br>7 04 12<br>7 04 15<br>7 07 06                                                                                        | 07                            |                      |                          | -22<br>+23  |                | Felt in the northern part of Formosa.<br>Epenter: off eastern coast. |
| 189 | " "    | e<br>LN<br>F                                                       | 18 41 04<br>18 41 16<br>18 42 45                                                                                                |                               |                      |                          | +63         |                | Local shock                                                          |
| 190 | " 12   | e<br>LN<br>F                                                       | 10 09 01<br>10 09 15<br>10 10 56                                                                                                |                               |                      |                          |             |                | Do                                                                   |
| 191 | " "    | e<br>LN<br>MN<br>F                                                 | 21 57 24<br>21 57 38<br>21 57 41<br>22 00 30                                                                                    | 10                            |                      |                          |             | 58             | Felt in the eastern coast.                                           |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.  | $\epsilon$ | r/T. | V  |
|-----|------------|------|----|
| AN: |            |      |    |
| AE: | 30         |      | 20 |
| AZ: |            |      |    |

| No. | Date    | Phase              | G. M. T.<br>h m s                            | Period<br>s. | AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | AZ<br>$\mu$                                    | $\Delta$<br>km | Remarks                                                                                                                                                       |
|-----|---------|--------------------|----------------------------------------------|--------------|-------------|--------------------------|------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 192 | June 13 | L<br>LW<br>MN<br>F | 18 33 58<br>18 34 12<br>18 34 16<br>18 36 22 | 14           |             | 26                       |                                                |                | Felt at Kankoo and vicinity. $\Delta 103$ off the eastern coast near Kankoo.                                                                                  |
| 193 | " 14    | L<br>LW<br>MN<br>F | 0 19 55<br>0 20 08<br>0 20 12<br>0 22 34     | 12           |             | 29                       | Do. $\Delta 100$                               |                |                                                                                                                                                               |
| 194 | " "     | L<br>F             | 1 05 34<br>1 06 45                           |              |             |                          | Local shock.                                   |                |                                                                                                                                                               |
| 195 | " "     | L<br>F             | 3 00 10<br>3 01 34                           |              |             |                          | Felt in the eastern coast near Kankoo.         |                |                                                                                                                                                               |
| 196 | " "     | P<br>L<br>MN<br>F  | 5 38 38<br>5 38 51<br>5 38 57<br>5 55 00     | 12           | +683        |                          |                                                |                | Felt in the northern half part of Formosa. Epicenter 234 N, 124 E. Set Kankoo felt strong and there were some slight damages. felt very numerous aftershocks. |
| 197 | " "     | L<br>F             | 5 45 53<br>5 46 53                           |              |             |                          | Aftershock of preceding shock; felt at Kankoo. |                |                                                                                                                                                               |
| 198 | " "     | L<br>F             | 5 56 18<br>5 57 38                           |              |             |                          | Do.                                            |                |                                                                                                                                                               |
| 199 | " "     | L<br>F             | 5 58 11<br>5 59 48                           |              |             |                          | Do.                                            |                |                                                                                                                                                               |
| 200 | " "     | L<br>F             | 6 17 16<br>6 18 03                           |              |             |                          | Do.                                            |                |                                                                                                                                                               |
| 201 | " "     | P<br>L<br>MN<br>F  | 6 21 45<br>6 22 07<br>6 22 01<br>6 25 35     | 07           |             | 47                       | Do.                                            |                |                                                                                                                                                               |
| 202 | " "     | L<br>F             | 6 25 55<br>6 27 09                           |              |             |                          | Do.                                            |                |                                                                                                                                                               |
| 203 | " "     | L<br>F             | 6 28 05<br>6 29 14                           |              |             |                          | Do.                                            |                |                                                                                                                                                               |
| 204 | " "     | P<br>L<br>MN<br>F  | 6 31 28<br>6 31 42<br>6 32 00<br>6 34 45     | 10           |             | +34                      | Do. $\Delta 103$                               |                |                                                                                                                                                               |
| 205 | " "     | L<br>F             | 6 37 08<br>6 38 11                           |              |             |                          | Do.                                            |                |                                                                                                                                                               |
| 206 | " "     | P<br>L<br>MN<br>F  | 6 50 00<br>6 50 15<br>6 50 32<br>7 00 26     | 19           | 37          |                          |                                                |                | Felt in the northern of Formosa. After-shock of No. 196.                                                                                                      |
| 207 | " "     | L<br>F             | 8 16 22<br>8 17 25                           |              |             |                          | Felt at Kankoo. After-shock of No. 196.        |                |                                                                                                                                                               |
| 208 | " "     | L<br>F             | 8 27 50<br>8 29 14                           |              |             |                          | Do.                                            |                |                                                                                                                                                               |
| 209 | " "     | L<br>F             | 12 50 30<br>12 55 00                         |              |             |                          | Do.                                            |                |                                                                                                                                                               |



# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\phi = 25^{\circ} 02.3$     $\lambda = 121^{\circ} 30.8$     $h = 8.0$  m.   Underground; alluvial.  
Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.   | $\epsilon$ | r/T. | V  |
|------|------------|------|----|
| AN : |            |      |    |
| AE : | 30         |      |    |
| AZ : |            |      | 20 |

| No. | Date    | Phase                                                   | Time<br>h m s                                | Period<br>s. | Amplitude<br>AN<br>$\mu$ | Amplitude<br>AE<br>$\mu$ | AZ<br>$\mu$ | $\Delta$<br>km | Remarks                                                                                                                                                  |
|-----|---------|---------------------------------------------------------|----------------------------------------------|--------------|--------------------------|--------------------------|-------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 210 | June 14 | P <sub>N</sub><br>L <sub>N</sub><br>F                   | 13 40 14<br>13 40 29<br>13 48 23             |              |                          |                          |             |                | The record is too compressed to identify the phases with certainty. Felt in the western part of Taiwan except the extreme north. After shock of No. 196. |
| 211 | "       | P <sub>N</sub><br>L <sub>N</sub><br>M <sub>N</sub>      | 16 01 24<br>16 01 39<br>16 01 42             | 10           |                          | +252                     |             |                | Felt in most parts. Felt in the eastern coast near Keelung. $\Delta 110$ . After shock of No. 196.                                                       |
| 212 | "       | L<br>F                                                  | 16 06 19<br>16 09 25                         |              |                          |                          |             |                | Felt at Tainan. After shock of No. 196.                                                                                                                  |
| 213 | "       | L<br>F                                                  | 22 15 18<br>22 17 07                         |              |                          |                          |             |                | Do.                                                                                                                                                      |
| 214 | " 15    | P <sub>N</sub><br>L <sub>N</sub><br>M <sub>N</sub><br>F | 8 26 03<br>8 26 17<br>8 26 31<br>8 28 55     | 10           |                          |                          | Do.         |                | Do.                                                                                                                                                      |
| 215 | "       | P <sub>N</sub><br>L <sub>N</sub><br>M <sub>N</sub><br>F | 8 30 02<br>8 30 21<br>8 30 28<br>8 33 03     | 14           |                          | -56                      |             |                | Do.                                                                                                                                                      |
| 216 | "       | L<br>F                                                  | 9 13 42<br>9 15 44                           |              |                          |                          |             |                | Registered at Tainan, Tientsin, Tainan, Keelung, Keelung and Tainan. Felt in the eastern coast near Keelung. After shock of No. 196.                     |
| 217 | "       | L<br>F                                                  | 9 47 35<br>9 48 36                           |              |                          |                          |             |                | Local shock.                                                                                                                                             |
| 218 | " 16    | P <sub>N</sub><br>L <sub>N</sub><br>M <sub>N</sub><br>F | 3 32 12<br>3 32 29<br>3 32 38<br>3 36 11     | 12           |                          | -35                      |             |                | Felt in the eastern coast near Keelung. After shock of No. 196.                                                                                          |
| 219 | "       | L<br>F                                                  | 3 36 10<br>3 37 45                           |              |                          |                          |             |                | Felt at Keelung, after shock of No. 196.                                                                                                                 |
| 220 | "       | L<br>F                                                  | 3 48 26<br>3 49 49                           |              |                          |                          | Do.         |                | Do.                                                                                                                                                      |
| 221 | "       | L<br>F                                                  | 3 51 30<br>3 53 20                           |              |                          |                          | Do.         |                | Do.                                                                                                                                                      |
| 222 | "       | L<br>F                                                  | 10 59 47<br>11 01 10                         |              |                          |                          |             |                | Do.                                                                                                                                                      |
| 223 | " 17    | L<br>F                                                  | 1 13 03<br>1 19 10                           |              |                          |                          |             |                | Registered at Keelung and Tainan, after shock of No. 196.                                                                                                |
| 224 | "       | P <sub>N</sub><br>L <sub>N</sub><br>M <sub>N</sub><br>F | 5 53 17<br>5 59 01<br>5 59 05<br>6 01 22     | 06           |                          | 31                       |             |                | Felt in the eastern coast near Keelung, after shock of No. 196.                                                                                          |
| 225 | "       | L<br>F                                                  | 10 14 48<br>10 16 06                         |              |                          |                          |             |                | Local shock.                                                                                                                                             |
| 226 | "       | P <sub>N</sub><br>L <sub>N</sub><br>M <sub>N</sub><br>F | 11 55 30<br>11 55 43<br>11 55 44<br>11 57 54 | 12           |                          | 36                       |             |                | Felt at Keelung after shock of No. 196.                                                                                                                  |
| 227 | "       | L<br>F                                                  | 22 28 18<br>22 28 30                         |              |                          |                          |             |                | Felt in most parts. Felt at Tainan after shock of No. 196.                                                                                               |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02' .3$   $\lambda=121^{\circ} 30' .8$   $h=8.0$  m. Underground; alluvial.

Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date    | Phase               | G. M. T.<br>Time<br>h m s                                        | Period<br>s. | Amplitude<br>AN $\mu$ | AE $\mu$ | Az $\mu$ | $\Delta$<br>km | Remarks                                                                                                                   |
|-----|---------|---------------------|------------------------------------------------------------------|--------------|-----------------------|----------|----------|----------------|---------------------------------------------------------------------------------------------------------------------------|
| 228 | June 17 | e                   | 22 29 21                                                         |              |                       |          |          |                |                                                                                                                           |
| 229 | "       | e F                 | 22 31 47                                                         |              |                       |          |          |                |                                                                                                                           |
| 230 | "       | e F                 | 22 33 13                                                         |              |                       |          |          |                | F felt in the west grade. Felt in the eastern coast near Kienko. Do. This and previous grades are after-shock of No. 196. |
| 231 | " 18    | e F                 | 22 44 29<br>22 45 52                                             |              |                       |          |          |                | Felt at Kienko after-shock of No. 196.                                                                                    |
| 232 | " 19    | PN<br>LN<br>MN<br>F | 15 29 11<br>15 30 16<br>1 34 14<br>1 34 29<br>1 34 30<br>1 36 40 | 67           |                       |          | 80       |                | Do.                                                                                                                       |
| 233 | "       | PN<br>LN<br>MN<br>F | 6 13 12<br>6 13 26<br>6 13 39<br>6 16 43                         | 12           |                       |          | 48       |                | Felt in the eastern coast near Kienko. After-shock of No. 196.                                                            |
| 234 | " 21    | PN<br>LN<br>MN<br>F | 3 53 07<br>3 53 24<br>3 53 40<br>3 58 23                         | 14           |                       |          | 71       |                | Do.                                                                                                                       |
| 235 | "       | e F                 | 4 00 40<br>4 02 46                                               |              |                       |          |          |                | Do.                                                                                                                       |
| 236 | "       | PN<br>LN<br>MN<br>F | 4 06 46<br>4 07 06<br>4 07 15<br>4 07 22<br>4 17 50              | 12<br>10     | -390                  |          |          |                | Do.                                                                                                                       |
| 237 | "       | e F                 | 6 21 32<br>6 22 57                                               |              |                       |          |          |                | Do.                                                                                                                       |
| 238 | " 22    | e MN<br>F           | 1 18 54<br>1 19 13<br>1 20 38                                    | 13           |                       |          | 10       |                | Do.                                                                                                                       |
| 239 | "       | e F                 | 1 25 20<br>1 27 07                                               |              |                       |          |          |                | Weakly felt at Kienko. After-shock of No. 196.                                                                            |
| 240 | "       | e F                 | 2 54 13<br>2 56 33                                               |              |                       |          |          |                | Slightly felt at Kienko. After-shock of No. 196.                                                                          |
| 241 | " 25    | e LN<br>MN<br>F     | 16 58 25<br>16 58 43<br>16 58 48<br>17 02 27                     | 12           |                       |          | 25       |                | Registered at Kienko also, but not felt. Very faint sinusoidal L waves.                                                   |
| 242 | " 27    | e F                 | 2 44 29<br>2 46 21                                               |              |                       |          |          |                | Registered at Kienko also, but not felt. After-shock of No. 196.                                                          |
| 243 | " 28    | e F                 | 2 10 11<br>2 50 -                                                |              |                       |          |          |                |                                                                                                                           |
| 244 | "       | P LN<br>F           | 6 16 07<br>6 18 07<br>6 50 -                                     |              |                       |          |          |                | Registered at Kienko and Taiwan.                                                                                          |
| 245 | July 1  | e F                 | 1 07 11<br>1 08 37                                               |              |                       |          |          |                | Felt at Shinshu and Shinshu. north-western part of Formosa.                                                               |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02.3$   $\lambda = 121^{\circ} 30.8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.   | $\varepsilon$ | r/T. | V  |
|------|---------------|------|----|
| AN : |               |      |    |
| AE : | 30            |      | 20 |
| AZ : |               |      |    |

| No. | Date   | Phase         | Time  |     | Period<br>s. | Amplitude   |             | AZ<br>$\mu$ | $\Delta$<br>km | Remarks                                                                                                   |
|-----|--------|---------------|-------|-----|--------------|-------------|-------------|-------------|----------------|-----------------------------------------------------------------------------------------------------------|
|     |        |               | h     | m s |              | AN<br>$\mu$ | AE<br>$\mu$ |             |                |                                                                                                           |
| 246 | July 2 | $\frac{P}{F}$ | 7 53  | 08  |              |             |             |             |                | Registered at Karambo also. It may be after-shock of No. 196.                                             |
| 247 | " 4    | $\frac{P}{F}$ | 2 14  | 23  |              |             |             |             |                | Felt at Saikō south eastern coast.                                                                        |
| 248 | " 5    | $\frac{P}{F}$ | 5 34  | 34  |              |             |             |             |                | Local shock.                                                                                              |
| 249 | " "    | $\frac{P}{F}$ | 14 11 | 00  |              |             |             |             |                | Registered at Karambo also. May be after-shock of No. 196.                                                |
| 250 | " 7    | $\frac{P}{F}$ | 2 37  | 39  | 1.0          |             |             |             |                | Felt in the eastern coast.                                                                                |
| 251 | " 8    | $\frac{P}{F}$ | 19 53 | 25  |              |             |             |             |                | Local shock.                                                                                              |
| 252 | " 10   | $\frac{P}{F}$ | 14 25 | 31  |              |             |             |             |                | Do.                                                                                                       |
| 253 | " 13   | $\frac{P}{F}$ | 5 14  | 25  | 1.3          |             |             |             |                | Felt in the southern part of Formosa.                                                                     |
| 254 | " 17   | $\frac{P}{F}$ | 3 23  | 20  |              |             |             |             |                | Registered at Tainan and Taito also.                                                                      |
| 255 | " "    | $\frac{P}{F}$ | 21 19 | 39  |              |             |             |             |                | Distant quake.                                                                                            |
| 256 | " "    | $\frac{P}{F}$ | 22 36 | 05  |              |             |             |             |                | Do. Registered at Taito.                                                                                  |
| 257 | " 19   | $\frac{P}{F}$ | 7 22  | 02  |              |             |             |             |                | Local shock.                                                                                              |
| 258 | " "    | $\frac{P}{F}$ | 10 29 | 49  |              |             |             |             |                | Do.                                                                                                       |
| 259 | " "    | $\frac{P}{F}$ | 20 31 | 09  |              |             |             |             |                | The N-S camp from displaced off the stream. Felt in the northern part of Formosa. after-shock of No. 196. |
| 260 | " "    | $\frac{P}{F}$ | 21 24 | 20  |              |             |             |             |                | Felt at Karambo and vicinity. after-shock of No. 196.                                                     |
| 261 | " 23   | $\frac{P}{F}$ | 13 54 | 28  |              |             |             |             |                | Felt in the mountain district of the middle part of Formosa.                                              |
| 262 | " 28   | $\frac{P}{F}$ | 6 43  | 30  | 2.4          |             |             |             |                | Registered at Karambo and Taito also.                                                                     |
| 263 | " 30   | $\frac{P}{F}$ | 16 46 | 36  |              |             |             |             |                | Local shock.                                                                                              |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02'.3$   $\lambda=121^{\circ} 30'.8$   $h=8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.     | $\epsilon$ | r/T. | V   |
|--------|------------|------|-----|
| AN: 16 |            |      | 120 |
| AE: 30 |            |      | 20  |
| Az:    |            |      |     |

| No. | Date    | Phase                                                                                                         | Time<br>h m s                                                                               | Period<br>s.              | Amplitude<br>AE $\mu$    | Amplitude<br>AN $\mu$ | Az $\mu$ | $\Delta$<br>km | Remarks                                                    |
|-----|---------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------|--------------------------|-----------------------|----------|----------------|------------------------------------------------------------|
| 264 | July 31 | P<br>F                                                                                                        | 19 37 14<br>19 39 11                                                                        |                           |                          |                       |          |                |                                                            |
| 265 | Aug 3   | e<br>L <sub>1</sub><br>F                                                                                      | 23 48 02<br>23 48 16<br>23 49 47                                                            |                           |                          |                       |          |                |                                                            |
| 266 | " 7     | e<br>L <sub>1</sub><br>MN<br>F                                                                                | 11 58 43<br>11 58 53<br>11 58 53<br>12 01 07                                                | 12                        |                          |                       |          |                | Felt at Muzhi (竹山), north-eastern coast of Formosa.        |
| 267 | " "     | e                                                                                                             | 12 06 44                                                                                    |                           |                          |                       |          |                | F lost in next quake.                                      |
| 268 | " "     | e                                                                                                             | 12 09 51                                                                                    |                           |                          |                       |          |                | Do.                                                        |
| 269 | " "     | e<br>F                                                                                                        | 12 12 31<br>12 19 35                                                                        |                           |                          |                       |          |                | F lost in next quake.                                      |
| 270 | " "     | P                                                                                                             | 13 04 22                                                                                    |                           |                          |                       |          |                | Very irregular waves.                                      |
| 271 | " "     | e<br>F                                                                                                        | 13 09 28<br>13 17 04                                                                        |                           |                          |                       |          |                | Felt in the eastern coast near Karuoka.                    |
| 272 | " "     | e<br>F                                                                                                        | 21 37 07<br>21 39 29                                                                        |                           |                          |                       |          |                |                                                            |
| 273 | " 8     | P<br>L <sub>1</sub><br>F                                                                                      | 4 36 55<br>4 37 31<br>4 39 35                                                               |                           |                          |                       |          |                |                                                            |
| 274 | " 9     | P<br>F                                                                                                        | 18 49 25<br>18 52 45                                                                        |                           |                          |                       |          |                |                                                            |
| 275 | " "     | P<br>F                                                                                                        | 21 01 10<br>21 02 32                                                                        |                           |                          |                       |          |                |                                                            |
| 276 | " 11    | e<br>F                                                                                                        | 5 56 58<br>5 58 34                                                                          |                           |                          |                       |          |                | Local shock.                                               |
| 277 | " "     | e<br>F                                                                                                        | 11 35 10<br>11 36 48                                                                        |                           |                          |                       |          |                | Do.                                                        |
| 278 | " 12    | e<br>F                                                                                                        | 22 01 23<br>22 02 37                                                                        |                           |                          |                       |          |                | First irregular sinusoidal L waves.                        |
| 279 | " 14    | L <sub>1</sub><br>F                                                                                           | 6 37 -<br>6 50 -                                                                            |                           |                          |                       |          |                | First irregular sinusoidal L waves.                        |
| 280 | " "     | e<br>F                                                                                                        | 10 47 12<br>10 48 26                                                                        |                           |                          |                       |          |                | Felt in the central mountainous districts.                 |
| 281 | " "     | e<br>F                                                                                                        | 22 48 52<br>22 50 43                                                                        |                           |                          |                       |          |                | First irregular waves.                                     |
| 282 | " 16    | L <sub>1</sub><br>F                                                                                           | 2 38 -<br>2 59 -                                                                            |                           |                          |                       |          |                | Registered at Tachia, Taiwan and Koshun $\Delta$ 313.3 km. |
| 283 | " 19    | P <sub>1</sub><br>S <sub>1</sub><br>L <sub>1</sub><br>M <sub>1</sub><br>M <sub>1</sub><br>M <sub>1</sub><br>F | 12 17 37<br>12 22 30<br>12 25 51<br>12 30 03<br>12 36 00<br>12 36 52<br>12 43 30<br>14 00 - | 10.6<br>8.6<br>7.7<br>9.6 | +16<br>-29<br>+33<br>-33 |                       |          |                |                                                            |



# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\phi = 25^{\circ} 02'.3$      $\lambda = 121^{\circ} 30'.8$      $h = 8.0$  m.    Underground; alluvial.  
 Instrument ; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date    | Phase         | G. M. T.                                            |                                        | Period<br>s. | Amplitude   |             | Az<br>$\mu$ | $\Delta$<br>km | Remarks                                        |
|-----|---------|---------------|-----------------------------------------------------|----------------------------------------|--------------|-------------|-------------|-------------|----------------|------------------------------------------------|
|     |         |               | h                                                   | m s.                                   |              | AE<br>$\mu$ | AN<br>$\mu$ |             |                |                                                |
| 284 | Aug. 21 | PN<br>LN<br>F | 0                                                   | 14 35<br>0 14 42<br>0 16 01            |              |             |             |             |                | Local shock; felt at Mandai, MR district.      |
| 285 | " 27    | "<br>LN<br>F  | 9                                                   | 49 05<br>9 49 10<br>9 49 10<br>9 50 13 | 07           | 157         |             |             |                | Do. Felt at Tainan.                            |
| 286 | " 31    | PN<br>LN<br>F | 17 37 36<br>17 37 36                                |                                        |              |             |             |             |                | Do.                                            |
| 287 | " "     | PN<br>LN<br>F | 19 24 27<br>19 24 44<br>19 24 48<br>19 27 47        |                                        | 12           |             | 30          |             |                | Do.                                            |
| 288 | Sept. 1 | PN<br>F       | 5 51 48<br>5 53 04                                  |                                        |              |             |             |             |                | Felt in the districts of the southern extreme. |
| 289 | " "     | LN<br>F       | 14 26 30<br>14 27 57                                |                                        |              |             |             |             |                | Local shock.                                   |
| 290 | " "     | PN<br>F       | 20 27 31<br>20 28 41                                |                                        |              |             |             |             |                | Do.                                            |
| 291 | " 5     | PN<br>F       | 12 22 00<br>12 23 49                                |                                        |              |             |             |             |                | Do.                                            |
| 292 | " 6     | PN<br>LN<br>F | 14 22 03<br>14 22 15<br>14 22 16<br>14 24 03        |                                        | 10           |             | 52          |             |                | Do. Felt at Tainan.                            |
| 293 | " "     | PN<br>LN<br>F | 21 11 06<br>21 11 54<br>21 12 16<br>21 15 26        |                                        | 19           |             | 39          |             |                |                                                |
| 294 | " 8     | PN<br>LN<br>F | 4 21 54<br>4 22 03<br>4 22 05<br>4 22 05<br>4 23 52 |                                        | 10<br>06     | 54          | 52          |             |                | Felt at Kainan, station const.                 |
| 295 | " 9     | PN<br>F       | 1 41 56<br>1 43 19                                  |                                        |              |             |             |             |                | Local shock.                                   |
| 296 | " "     | PN<br>F       | 15 02 49<br>15 04 56                                |                                        |              |             |             |             |                | Do.                                            |
| 297 | " 13    | PN<br>F       | 2 06 21<br>2 07 37                                  |                                        |              |             |             |             |                | Do.                                            |
| 298 | " 18    | PN<br>LN<br>F | 12 40 00<br>12 40 10<br>12 41 00                    |                                        |              |             |             |             |                | Do.                                            |
| 299 | " 19    | PN<br>LN<br>F | 13 20 20<br>13 20 34<br>13 21 53                    |                                        |              |             |             |             |                | Do.                                            |
| 300 | " 26    | LN<br>F       | 17 49 03<br>18 03 00                                |                                        |              |             |             |             |                | Very faint sinusoidal L. waves.                |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02'.3$   $\lambda=121^{\circ} 30'.8$   $h=8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum (mass 16 kg.)

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date   | Phase                                                                                       | G. M. T.<br>Time<br>h m s                                                                                                                                                                   | Period<br>s.                                           | AE<br>$\mu$                              | Amplitude<br>AN<br>$\mu$           | Az<br>$\mu$ | $\Delta$<br>km | Remarks                                                                                                                                                                                     |
|-----|--------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------|------------------------------------|-------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 301 | Oct. 1 | EN<br>F                                                                                     | 10 25 46<br>10 26 26                                                                                                                                                                        |                                                        |                                          |                                    |             |                |                                                                                                                                                                                             |
| 302 | " 3    | EN<br>F                                                                                     | 10 02 28<br>10 05 16                                                                                                                                                                        |                                                        |                                          |                                    |             |                |                                                                                                                                                                                             |
| 303 | " 6    | EN<br>F                                                                                     | 17 19 56<br>17 21 05                                                                                                                                                                        |                                                        |                                          |                                    |             |                |                                                                                                                                                                                             |
| 304 | " 7    | EN<br>F                                                                                     | 19 59 42<br>20 01 13                                                                                                                                                                        |                                                        |                                          |                                    |             |                |                                                                                                                                                                                             |
| 305 | " 9    | EN<br>LN<br>F                                                                               | 14 14 20<br>14 14 40<br>14 17 27                                                                                                                                                            |                                                        |                                          |                                    |             |                |                                                                                                                                                                                             |
| 306 | " 12   | EN<br>F                                                                                     | 16 27 08<br>16 29 19                                                                                                                                                                        |                                                        |                                          |                                    |             |                | Local shock.                                                                                                                                                                                |
| 307 | " 13   | PE<br>PRE<br>SE<br>SRE<br>LN<br>LE<br>ME<br>ME<br>ME<br>ME<br>F                             | 18 03 03<br>18 09 52<br>18 16 56<br>18 21 45<br>18 25 27<br>18 25 29<br>18 43 27<br>18 49 57<br>19 01 39<br>19 14 45<br>19 51 -                                                             | 560<br>280<br>282<br>202                               | $\pm 25$<br>$\pm 40$<br>$- 25$<br>$- 30$ |                                    |             |                | Local shock.<br>Moderate micros made the record of N-S is present very irregular, and observed the preliminary tremors completely undisturbable. The record of E-W component observed also. |
| 308 | " 14   | EN<br>LE<br>ME<br>F                                                                         | 17 14 36<br>17 15 48<br>17 17 44<br>17 31 -                                                                                                                                                 | 67                                                     | +38                                      |                                    |             |                | P is not defined, according to slight microseisms and minimums of the amplification.                                                                                                        |
| 309 | " 15   | PE<br>EN<br>SE<br>SN<br>LE<br>LN<br>MN<br>ME<br>ME<br>MN<br>MN<br>ME<br>MN<br>MN<br>ME<br>F | 12 40 51<br>12 40 52<br>12 43 51<br>12 44 27<br>12 46 22<br>12 46 24<br>12 47 12<br>12 47 13<br>12 47 47<br>12 47 48<br>12 48 22<br>12 48 30<br>12 48 59<br>12 49 46<br>12 49 47<br>13 21 - | 101<br>109<br>109<br>101<br>91<br>86<br>72<br>73<br>96 | +60<br>+75<br>+85<br>-75                 | -118<br>+129<br>-103<br>-50<br>+26 |             |                | According to slight microseisms and minimums of the amplification, preliminary phases are not distinct.                                                                                     |
| 310 | " 17   | EN<br>MN<br>F                                                                               | 9 36 45<br>9 37 23<br>9 38 04                                                                                                                                                               | 06                                                     |                                          |                                    | 35          |                | Local shock. The tremors is very rusty.                                                                                                                                                     |
| 311 | " 18   | PE<br>LE<br>F                                                                               | 8 30 40<br>8 34 31<br>9 19 -                                                                                                                                                                |                                                        |                                          |                                    |             |                | P may be S.                                                                                                                                                                                 |
| 312 | " 20   | PE<br>LE<br>MN<br>F                                                                         | 10 58 38<br>10 59 09<br>10 59 15<br>11 02 05                                                                                                                                                | 10                                                     |                                          |                                    |             | 13             |                                                                                                                                                                                             |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02' .3$   $\lambda = 121^{\circ} 30' .8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date    | Phase                                                                     | G. M. T.<br>h m s                                                                                                                                                               | Period<br>s.      | AE<br>$\mu$    | Amplitude<br>AN<br>$\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks                                                                                                                                                                                                                    |
|-----|---------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|--------------------------|-------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 313 | Oct. 21 | LN<br>LN<br>F                                                             | 12 04 46<br>12 04 58<br>12 05 54                                                                                                                                                |                   |                |                          |             |                | Local shock.                                                                                                                                                                                                               |
| 314 | " 22    | EE<br>PE<br>PN<br>SE<br>LN<br>LE<br>ME<br>F                               | 17 06 55<br>17 08 56<br>17 08 57<br>17 10 14<br>17 10 15<br>17 14 11<br>17 23 55<br>17 54 -                                                                                     | 163               | +190           |                          |             |                | According to slight microseisms P of L-W component is not defined, but P, S and L are defined. In the record of N-S component P is particularly well-defined, but P and other phases are entirely obscured by microseisms. |
| 315 | " 23    | PN<br>LN<br>F                                                             | 0 49 58<br>0 49 50<br>0 50 09<br>0 56 38                                                                                                                                        | 24                | -190           |                          |             |                | At Taihoku, some microseisms with P but only one faint abrupt shock from Honan-ward.                                                                                                                                       |
| 316 | " 25    | EE<br>PN<br>LN<br>LE<br>ME<br>F                                           | 0 26 29<br>0 26 30<br>0 26 34<br>0 30 25<br>0 31 27<br>0 31 -                                                                                                                   | 60                | +28            |                          |             |                |                                                                                                                                                                                                                            |
| 317 | " 30    | LE<br>F                                                                   | 15 04 43<br>15 21 -                                                                                                                                                             |                   |                |                          |             |                | Faint longitudinal L waves.                                                                                                                                                                                                |
| 318 | " 31    | LN<br>LN<br>F                                                             | 10 32 59<br>10 33 17<br>10 34 51                                                                                                                                                |                   |                |                          |             |                |                                                                                                                                                                                                                            |
| 319 | Nov. 6  | PN<br>LN<br>MN<br>F                                                       | 16 42 28<br>16 48 43<br>16 48 44<br>16 53 30                                                                                                                                    | 09                | 155            |                          |             |                | The record of N-S component is so closely compressed that near amplitude can not be read, but is not greater than 367 $\mu$ .<br>Faint at Taihoku.                                                                         |
| 320 | " 10    | PN<br>PE<br>PE<br>PN<br>SN<br>SE<br>SN<br>LN<br>LE<br>ME<br>MN<br>ME<br>F | 13 56 30<br>13 56 30<br>13 56 55<br>13 56 57<br>13 59 03<br>13 59 04<br>13 59 20<br>13 59 24<br>14 01 32<br>14 01 36<br>14 03 05<br>14 06 32<br>14 08 42<br>14 08 42<br>15 30 - | 259<br>125<br>274 | +1495<br>-1920 | -527                     |             |                |                                                                                                                                                                                                                            |
| 321 | " 11    | PN<br>LN<br>MN<br>F                                                       | 5 52 05<br>5 54 47<br>5 54 56<br>5 56 44                                                                                                                                        | 19                |                |                          |             | 15             |                                                                                                                                                                                                                            |
| 322 | " 13    | PN<br>PE<br>SE<br>SN<br>LN<br>LE<br>ON<br>F                               | 12 18 06<br>12 18 08<br>12 20 26<br>12 20 49<br>12 21 52<br>12 22 04<br>13 19 54<br>14 50 -                                                                                     |                   |                |                          |             |                |                                                                                                                                                                                                                            |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02' 3$   $\lambda = 121^{\circ} 30' 8$   $h = 8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |  | $\epsilon$ |  | r/T. |  | V   |  |
|------|--|------------|--|------|--|-----|--|
| AN : |  | 16         |  |      |  | 120 |  |
| AE : |  | 30         |  |      |  | 20  |  |
| AZ : |  |            |  |      |  |     |  |

| No. | Date   | Phase                                            | G. M. T.                                                                               |     | Period<br>s. | AE<br>$\mu$ | Amplitude   |             | Az<br>$\mu$ | $\Delta$<br>km                 | Remarks                                                                                                                                              |
|-----|--------|--------------------------------------------------|----------------------------------------------------------------------------------------|-----|--------------|-------------|-------------|-------------|-------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |        |                                                  | h                                                                                      | m s |              |             | AN<br>$\mu$ | AN<br>$\mu$ |             |                                |                                                                                                                                                      |
| 323 | Nov 14 | AE<br>APN ?<br>LE<br>LN<br>ME<br>MN<br>FN<br>FE  | 8 14 13<br>8 14 05<br>8 14 35<br>8 18 03<br>8 18 30<br>8 19 32<br>9 10<br>9 29         |     | 115<br>115   | -28         | -22         |             |             | After-shock of No. 322.        |                                                                                                                                                      |
| 324 | "      | APN<br>APE ?<br>LE<br>LN<br>ME<br>MN<br>FN<br>FE | 10 06 35<br>10 06 48<br>10 09 04<br>10 10 04<br>10 10 37<br>10 10 52<br>11 13<br>11 14 |     | 134<br>106   | +70         | -16         |             |             | May be after-shock of No. 322. |                                                                                                                                                      |
| 325 | "      | APN<br>APE<br>LE ?<br>LN<br>ME<br>MN<br>FN<br>FE | 14 40 05<br>14 40 11<br>14 42 28<br>14 43 46<br>14 44 34<br>14 45 39<br>15 36<br>15 49 |     | 120<br>106   | -38         | -6          |             | Da          |                                |                                                                                                                                                      |
| 326 | " 16   | LE<br>FE                                         | 12 42<br>13 46                                                                         |     |              |             |             |             |             |                                |                                                                                                                                                      |
| 327 | " 18   | PN<br>LN<br>MN<br>FN                             | 19 13 47<br>19 14 02<br>19 14 03<br>19 17 14                                           |     | 09           |             | 57          |             |             |                                |                                                                                                                                                      |
| 328 | "      | PN<br>LN<br>FN                                   | 19 57 04<br>19 57 25<br>19 59 17                                                       |     |              |             |             |             |             |                                |                                                                                                                                                      |
| 329 | " 19   | AN<br>LN<br>MN<br>FN                             | 23 49 13<br>23 49 26<br>23 49 27<br>23 50 35                                           |     | 05           |             | 15          |             |             |                                | The record of N-S component is so compressed that max. amplitude can not be read entirely. Only some are quietly setting felt slightly at Tachikawa. |
| 330 | " 21   | PE<br>APN<br>LE<br>LN<br>ME<br>F                 | 6 06 08<br>6 06 09<br>6 06 17<br>6 06 18<br>6 06 23<br>6 10 46                         |     | 06           | -125        |             |             |             |                                | Local shock.                                                                                                                                         |
| 331 | " 24   | AN<br>F                                          | 13 37 16<br>13 38 52                                                                   |     |              |             |             |             |             |                                |                                                                                                                                                      |
| 332 | " 28   | PE<br>LN<br>MN<br>F                              | 5 44 56<br>5 45 48<br>5 46 52<br>5 53 20                                               |     | 29           |             | 26          |             |             |                                |                                                                                                                                                      |
| 333 | " 29   | AN<br>F                                          | 12 37 15<br>13 40                                                                      |     |              |             |             |             |             |                                |                                                                                                                                                      |
| 334 | " 30   | AN<br>F                                          | 17 48 07<br>18 09                                                                      |     |              |             |             |             |             |                                | The record is so irregular that the phases can not be identified.                                                                                    |



## TAIHO KU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\varphi = 25^{\circ} 02' .3$   $\lambda = 121^{\circ} 30' .8$   $h = 8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |    | $\varepsilon$ | r/T. | V   |
|------|----|---------------|------|-----|
| AN : | 16 |               |      | 120 |
| AE : | 30 |               |      | 20  |
| Az : |    |               |      |     |

| No. | Date   | Phase                                              | G. M. T.                                                      |     | Period<br>s. | Amplitude<br>AN | AE<br>$\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks                                            |
|-----|--------|----------------------------------------------------|---------------------------------------------------------------|-----|--------------|-----------------|-------------|-------------|----------------|----------------------------------------------------|
|     |        |                                                    | h                                                             | m s |              |                 |             |             |                |                                                    |
| 335 | Dec. 1 | $\frac{E}{F}$                                      | 11 28 22<br>11 30 05                                          |     |              |                 |             |             |                |                                                    |
| 336 | " 4    | $P_N$<br>$L_N$<br>$M_N$<br>$F_N$                   | 19 13 20<br>19 13 32<br>19 13 36<br>19 14 55                  |     | 0.5          | 15              |             |             |                | Local shock.                                       |
| 337 | " 7    | $P_E$<br>$S_E$<br>$L_E$<br>$M_E$<br>$F_E$          | 8 52 47<br>8 56 49<br>8 59 28<br>9 01 25<br>9 18 18           |     | 13.4         |                 |             |             |                | Do.                                                |
| 338 | " 8    | $P_N$<br>$L_N$<br>$M_N$<br>$F_N$                   | 20 49 09<br>20 49 18<br>20 49 19<br>20 52 32                  |     | 0.7          |                 |             |             |                | N-S component was obscured by modern<br>re-mitted. |
| 339 | " 9    | $P_N$<br>$L_N$<br>$M_N$<br>$F_N$                   | 8 49 49<br>8 50 01<br>8 50 42<br>8 51 37                      |     | 1.0          |                 |             |             |                | Local shock.                                       |
| 340 | " 10   | $P_E$<br>$F_E$                                     | 15 22 22<br>16 18 22                                          |     |              |                 |             |             |                | Do.                                                |
| 341 | " 18   | $P_N$<br>$L_N$<br>$M_N$<br>$F_N$                   | 18 33 21<br>18 33 56<br>18 34 03<br>18 38 00                  |     | 2.9          |                 |             |             |                | Faint sinusoidal L wave.                           |
| 342 | " 19   | $P_N$<br>$F_N$                                     | 17 38 22<br>17 39 52                                          |     |              |                 |             |             |                | E-W component very slight.                         |
| 343 | " "    | $P_N$<br>$F_N$                                     | 21 29 34<br>21 31 30                                          |     |              |                 |             |             |                | Local shock.                                       |
| 344 | " 22   | $P_E$<br>$S_N$<br>$S_E$<br>$L_E$<br>$M_E$<br>$F_E$ | 5 10 00<br>5 13 37<br>5 13 40<br>5 17 12<br>5 17 46<br>6 05 - |     | 9.6          | +5.88           |             |             |                | Do.                                                |
| 345 | " 23   | $P_N$<br>$F_N$                                     | 1 44 14<br>1 53 23                                            |     |              |                 |             |             |                | N-S component off the paper at<br>13h 16m 25s.     |
| 346 | " "    | $P_N$<br>$S_N$<br>$L_N$<br>$M_N$<br>$F_N$          | 10 18 30<br>10 18 40<br>10 18 48<br>10 18 52<br>10 20 47      |     | 1.4          |                 |             |             |                | Local shock.                                       |
| 347 | " "    | $P_N$<br>$F_N$                                     | 23 10 20<br>23 20 -                                           |     |              |                 |             |             |                | Faint irregular record.                            |
| 348 | " 25   | $P_N$<br>$F_N$                                     | 19 00 48<br>19 02 09                                          |     |              |                 |             |             |                | Local shock.                                       |
| 349 | " 26   | $P_E$<br>$L_E$<br>$F_E$                            | 18 27 39<br>18 30 39<br>19 06 -                               |     |              |                 |             |             |                |                                                    |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02' . 3$   $\lambda = 121^{\circ} 30' . 8$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |  | $\epsilon$ |  | r/T. |  | V   |  |
|------|--|------------|--|------|--|-----|--|
| AN : |  | 16         |  |      |  | 120 |  |
| AE : |  | 30         |  |      |  | 20  |  |
| AZ : |  |            |  |      |  |     |  |

| No. | Date    | Phase                      | G. M. T.         |                      | Period<br>s.         | Amplitude |         |    | Az<br>μ | Δ<br>km      | Remarks                                                                    |
|-----|---------|----------------------------|------------------|----------------------|----------------------|-----------|---------|----|---------|--------------|----------------------------------------------------------------------------|
|     |         |                            | h                | m s                  |                      | AE<br>μ   | AN<br>μ |    |         |              |                                                                            |
| 350 | Dec. 27 | P <sub>1</sub><br>LN<br>FN | 4<br>4<br>4      | 44<br>44<br>47       | 41<br>51<br>00       |           |         |    |         |              | The record is so irregular that it is not advisable to take it at Taihoku. |
| 351 | "       | P <sub>1</sub><br>LN<br>FN | 10<br>10<br>10   | 21<br>22<br>22       | 40<br>10<br>20       | 14        |         | 35 |         |              |                                                                            |
| 352 | "       | P <sub>1</sub><br>LN<br>FN | 10<br>10<br>11   | 33<br>37<br>16       | 20<br>42<br>-        |           |         |    |         |              |                                                                            |
| 353 | " 28    | LN<br>FN                   | 4<br>4           | 36<br>38             | 47<br>32             |           |         |    |         | Great shock. |                                                                            |
| 354 | "       | LN<br>LN<br>FN             | 9<br>9<br>9      | 11<br>11<br>11       | 23<br>46<br>50       | 14        |         | 22 |         |              |                                                                            |
| 355 | "       | LN<br>FN                   | 20<br>20         | 08<br>12             | 36<br>19             |           |         |    |         |              | Very faint irregular waves.                                                |
| 356 | " 29    | LN<br>FN                   | 2<br>2           | 23<br>45             | -                    |           |         |    |         |              | Very faint irregular waves.                                                |
| 357 | "       | LN<br>FN                   | 16<br>16         | 10<br>58             | -                    |           |         |    |         |              | Great shock.                                                               |
| 358 | " 30    | LN<br>LN<br>FN             | 12<br>12<br>12   | 30<br>30<br>31       | 24<br>32<br>19       |           |         |    |         |              |                                                                            |
| 359 | " 31    | LN<br>LN<br>FN             | 0<br>0<br>0<br>0 | 28<br>28<br>28<br>30 | 32<br>42<br>42<br>28 | 10        |         | 44 |         |              |                                                                            |



No.

from December 31 to January 25 1925-6

# TAIHOKE, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02' 3$   $\lambda = 121^{\circ} 30' 8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |  | r/T.       |  | V   |  |
|------|--|------------|--|-----|--|
| AN : |  | $\epsilon$ |  | AN  |  |
| AE : |  |            |  | 120 |  |
| AZ : |  |            |  | 20  |  |

| No. | Date    | Phase                                                    | G. M. T.                                                                                                  |     | Period     | Amplitude | Az       | $\Delta$                                       | Remarks |
|-----|---------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----|------------|-----------|----------|------------------------------------------------|---------|
|     |         |                                                          | h                                                                                                         | m s | s.         | AE $\mu$  | AN $\mu$ | km                                             |         |
| 1   | Dec. 31 | LN<br>LN<br>MN<br>FN                                     | 20 35 45<br>20 35 01<br>20 35 11<br>20 40 45                                                              |     | 19         |           | -54      | Local shock                                    |         |
| 2   | "       | EN<br>FN                                                 | 20 40 45<br>20 42 00                                                                                      |     |            |           |          | Do.                                            |         |
| 3   | Jan. 4  | EN<br>FN                                                 | 7 46 56<br>7 47 51                                                                                        |     |            |           |          | Do.                                            |         |
| 4   | "       | EN<br>FN                                                 | 18 49 34<br>18 50 53                                                                                      |     |            |           |          | Do.                                            |         |
| 5   | "       | LE<br>FE                                                 | 23 54 -<br>0 13 -                                                                                         |     |            |           |          | Simultaneous L and F.                          |         |
| 6   | "       | EN<br>FN                                                 | 14 01 48<br>14 03 33                                                                                      |     |            |           |          | Local shock.                                   |         |
| 7   | "       | EN<br>FN                                                 | 6 09 00<br>6 10 12                                                                                        |     |            |           |          | Very compressed record of local.               |         |
| 8   | "       | EN<br>FN                                                 | 15 12 10<br>15 13 00                                                                                      |     |            |           |          | Local shock.                                   |         |
| 9   | "       | EN<br>LN<br>MN<br>FN                                     | 10 26 50<br>10 26 59<br>10 26 59<br>10 28 00                                                              |     | 10         |           | -11      | Do.                                            |         |
| 10  | "       | EN<br>LN<br>MN<br>FN                                     | 10 54 16<br>10 54 25<br>10 54 26<br>10 55 38                                                              |     | 12         |           | -28      | Do.                                            |         |
| 11  | "       | EN<br>FN                                                 | 10 57 57<br>10 58 39                                                                                      |     |            |           |          | Do.                                            |         |
| 12  | "       | PLE<br>SE<br>SN<br>LE<br>LN<br>MN<br>ME<br>F             | 21 15 31<br>21 21 58<br>21 22 02<br>21 29 42<br>21 30 18<br>21 33 39<br>21 37 05<br>22 12 -               |     | 144<br>144 | 198       | 40       | The tones of phases LN and LE are not certain. |         |
| 13  | "       | PLE<br>SN<br>SE<br>RE<br>RN<br>LE<br>LN<br>MN<br>ME<br>F | 0 45 11<br>0 52 39<br>0 52 44<br>0 56 13<br>0 56 17<br>1 00 20<br>1 01 54<br>1 02 06<br>1 02 37<br>4 10 - |     | 154<br>230 | +850      | -252     |                                                |         |
| 14  | "       | PE<br>LE<br>FE                                           | 0 57 05<br>0 57 16<br>0 58 33                                                                             |     |            |           |          | Local shock                                    |         |
| 15  | "       | PE<br>FE                                                 | 2 44 19<br>2 46 26                                                                                        |     |            |           |          | Plate at Tainan.                               |         |



# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\phi=25^{\circ} 02' 3''$   $\lambda=121^{\circ} 30' 8''$   $h=8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.     | $\epsilon$ | r/l. | V   |
|--------|------------|------|-----|
| AN: 16 |            |      | 120 |
| AE: 30 |            |      | 20  |
| Az:    |            |      |     |

| No. | Date    | I base                                 | G. M. T.<br>Time<br>h m s                                                                   | Period<br>s.      | AE<br>$\mu$ | Amplitude<br>AN<br>$\mu$ | Az<br>$\mu$ | $\Delta$<br>km  | Remarks                                                                                                                                 |
|-----|---------|----------------------------------------|---------------------------------------------------------------------------------------------|-------------------|-------------|--------------------------|-------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 98  | June 26 | PE<br>SE<br>LE<br>FE                   | 19 58 27<br>20 03 38<br>20 07 58<br>21 17 -                                                 |                   |             |                          |             | $\Delta = 3411$ |                                                                                                                                         |
| 99  | " 27    | AN<br>LN<br>MN<br>FN                   | 12 43 13<br>12 43 32<br>12 43 37<br>12 47 05                                                | 07                |             | 76                       |             |                 |                                                                                                                                         |
| 100 | " 28    | SE<br>LE<br>FE                         | 3 30 05<br>3 35 16<br>4 39 -                                                                |                   |             |                          |             | $\Delta = 2754$ |                                                                                                                                         |
| 101 | " "     | SE<br>FE                               | 6 26 41<br>7 09 -                                                                           |                   |             |                          |             |                 |                                                                                                                                         |
| 102 | " 29    | PE<br>LE<br>ME<br>FE                   | 2 22 46<br>2 23 00<br>2 23 00<br>2 32 14                                                    | 10                | 958         |                          |             |                 | Felt in northern half part of Formosa.<br>Epicerter: N 247, E 1253                                                                      |
| 103 | " "     | PN<br>LN<br>ME<br>FE                   | 14 28 32<br>14 29 29<br>14 30 37<br>16 00 -                                                 | 23.0              | 1933        |                          |             |                 | Taiwan central meteorological observatory<br>epicerter 150 km off southwest of<br>Naha of Luchuan. Felt at eastern<br>coast of Formosa. |
| 104 | July 1  | PN<br>PE<br>LE<br>LN<br>ME<br>MN<br>FE | 14 15 46<br>14 15 48<br>14 21 06<br>14 21 09<br>14 28 09<br>14 34 55<br>14 37 15<br>15 41 - | 192<br>182<br>149 | 108<br>150  | 131                      |             | $\Delta = 2833$ |                                                                                                                                         |
| 105 | " "     | EN<br>LN<br>LE                         | 20 44 56<br>20 45 38<br>20 48 39                                                            |                   |             |                          |             |                 |                                                                                                                                         |
| 106 | " 10    | EN<br>LE<br>ME<br>FE                   | 10 56 48<br>11 00 52<br>11 06 18<br>11 08 10<br>11 47 -                                     | 144               | 188         |                          |             |                 |                                                                                                                                         |
| 107 | " 12    | EN<br>LN<br>FN                         | 19 30 26<br>19 30 43<br>19 33 48                                                            |                   |             |                          |             |                 | Felt at Ishigaki is. of Luchuan.                                                                                                        |
| 108 | " "     | EN<br>LN<br>MN<br>FN                   | 20 28 44<br>20 28 59<br>20 28 59<br>20 32 47                                                | 10                |             | 32                       |             |                 |                                                                                                                                         |
| 109 | " 14    | EN<br>LN<br>FN                         | 14 20 14<br>14 20 30<br>14 22 22                                                            |                   |             |                          |             |                 |                                                                                                                                         |
| 110 | " 15    | EN<br>LN<br>MN<br>FN                   | 21 48 16<br>21 48 47<br>21 48 52<br>22 01 10                                                | 10                |             | 90                       |             |                 | Felt in southern part of Formosa.                                                                                                       |



No. 6

from May 20 to June 25, 1926

(甲 第 四 號)

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi=25^{\circ} 02' 3''$   $\lambda=121^{\circ} 30' 8''$   $h=8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.     | $\epsilon$ | r/T. | V   |
|--------|------------|------|-----|
| AN: 16 |            |      | 120 |
| AE: 30 |            |      | 20  |
| Az:    |            |      |     |

| No. | Date   | I phase                    | G. M. T.<br>Time<br>h m s                          | Period<br>s. | AE<br>$\mu$ | Amplitude<br>AN<br>$\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks                           |
|-----|--------|----------------------------|----------------------------------------------------|--------------|-------------|--------------------------|-------------|----------------|-----------------------------------|
| 81  | May 20 | PE<br>SE<br>LE<br>FE       | 7 06 45<br>7 10 26<br>7 13 07<br>7 40 -            |              |             |                          |             |                |                                   |
| 82  | " 22   | PE<br>LE<br>FE             | 21 09 01<br>21 09 10<br>21 13 39                   |              |             |                          |             |                | Felt in NW part of Formosa.       |
| 83  | " 31   | LE<br>F                    | 14 26 -<br>14 48 -                                 |              |             |                          |             |                | Very faint record.                |
| 84  | June 1 | EN<br>FN                   | 11 33 42<br>11 35 42                               |              |             |                          |             |                | Local shock.                      |
| 85  | " 3    | SE<br>LE<br>ME<br>FE       | 13 12 43<br>13 12 54<br>13 12 55<br>13 14 56       | 10           |             | 106                      |             |                | Do. Felt in NW part of Formosa.   |
| 86  | " 4    | PN<br>PE<br>LN<br>LE<br>FN | 7 02 39<br>7 02 42<br>7 07 13<br>7 07 17<br>7 25 - |              |             |                          |             |                |                                   |
| 87  | " 5    | PN<br>LN<br>FN             | 9 12 05<br>9 14 24<br>9 29 -                       |              |             |                          |             |                |                                   |
| 88  | " 8    | PN<br>FN                   | 12 13 53<br>12 15 54                               |              |             |                          |             |                | Local shock.                      |
| 89  | " "    | PN<br>LN<br>FN             | 15 39 17<br>15 39 33<br>15 41 49                   |              |             |                          |             |                | Do. Very compressed record.       |
| 90  | " 13   | EN<br>LN<br>MN<br>FN       | 2 06 18<br>2 08 24<br>2 09 04<br>2 18 05           | 29           |             | 33                       |             |                | Felt at Hongkong.                 |
| 91  | " "    | SE<br>FE                   | 23 26 37<br>23 28 06                               |              |             |                          |             |                | Local shock.                      |
| 92  | " 16   | EN<br>LN<br>FN             | 22 02 16<br>22 02 28<br>22 04 56                   |              |             |                          |             |                | Do.                               |
| 93  | " 20   | EN<br>FN                   | 13 44 36<br>13 47 09                               |              |             |                          |             |                | Do.                               |
| 94  | " 21   | EN<br>LN<br>FN             | 18 07 11<br>18 07 22<br>18 08 35                   |              |             |                          |             |                | Do.                               |
| 95  | " 23   | EN<br>FN                   | 1 23 00<br>1 24 19                                 |              |             |                          |             |                |                                   |
| 96  | " 24   | EN<br>FN                   | 19 21 05<br>19 22 44                               |              |             |                          |             |                |                                   |
| 97  | " 25   | PN<br>LE<br>FE             | 20 46 44<br>20 47 02<br>20 56 09                   |              |             |                          |             |                | Felt in northern part of Formosa. |



from July 16, to Aug. 2, 1926

(甲 第四號)

TAIYOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\varphi = 25^{\circ} 02'.3$        $\lambda = 121^{\circ} 30'.8$        $h = 8.0$  m.      Undergr. alluvial.

$\varphi=25^{\circ} 02' .3$   $\lambda=121^{\circ} 30' .8$  Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; E.W. Comp.=16g. NS, Comp.=55fg.

|                  | T. | $\varepsilon$ | r/T. | V   |
|------------------|----|---------------|------|-----|
| A <sub>N</sub> : | 16 |               |      | 120 |
| A <sub>E</sub> : | 30 |               |      | 20  |
| A <sub>Z</sub> : |    |               |      |     |

| No. | Date    | Phase                                          | G. M. T. |    |    | Period<br>s. | Amplitude           |                     |  | Az<br>° | Δ<br>km | Remarks                                            |
|-----|---------|------------------------------------------------|----------|----|----|--------------|---------------------|---------------------|--|---------|---------|----------------------------------------------------|
|     |         |                                                | h        | m  | s  |              | A <sub>E</sub><br>μ | A <sub>N</sub><br>μ |  |         |         |                                                    |
| 111 | July 16 | EE<br>FE                                       | 2        | 18 | 09 |              |                     |                     |  |         |         | Faint sinusoidal L waves.                          |
| 112 | " 17    | EN<br>LN<br>MN<br>FN                           | 8        | 36 | 07 | 10           |                     | 46                  |  |         |         | Felt at Ishigaki isl. of Lu-chu.                   |
| 113 | " 18    | PN<br>LN<br>MN<br>FN                           | 16       | 16 | 19 | 10           |                     | 83                  |  |         |         | Do.                                                |
| 114 | " 20    | PN<br>LN<br>FN                                 | 18       | 48 | 26 |              |                     |                     |  |         |         | Felt at Ishigaki isl. of Lu-chu.                   |
| 115 | " 22    | PN<br>LN<br>MN<br>FN                           | 7        | 45 | 51 | ?            |                     | 75                  |  |         |         | Felt in northern part of Formosa.                  |
| 116 | " "     | PN<br>LN<br>MN<br>FN                           | 20       | 54 | 43 | 07           |                     | 125                 |  |         |         |                                                    |
| 117 | " 26    | EN<br>FN                                       | 16       | 28 | 52 |              |                     |                     |  |         |         |                                                    |
| 118 | " "     | EN<br>LN<br>MN<br>FN                           | 20       | 54 | 39 | 05           |                     | 20                  |  |         |         | Local shock.                                       |
| 119 | " 27    | EN<br>FN                                       | 5        | 11 | 20 |              |                     |                     |  |         |         | Do.                                                |
| 120 | " "     | EN<br>FN                                       | 5        | 13 | 04 |              |                     |                     |  |         |         |                                                    |
| 121 | " "     | PN<br>LN<br>MN<br>FN                           | 5        | 14 | 47 | 10           |                     | 167                 |  |         |         | Very faint sinusoidal L waves.                     |
| 122 | " 28    | EE<br>LN<br>FE                                 | 9        | 08 | 28 |              |                     |                     |  |         |         | Δ 3800.                                            |
| 123 | Aug. 2  | PN/2<br>SN/2<br>LN/2<br>LN<br>MN<br>MN/2<br>FN | 5        | 04 | 20 | 101<br>230   |                     | 551                 |  |         |         | Manila report: Pacific, E Catand-<br>nues Islands. |
| 124 | " "     | EN<br>FN                                       | 8        | 27 | 47 |              |                     | 1163                |  |         |         |                                                    |
| 125 | " "     | EN<br>SN<br>LN<br>FN                           | 12       | 44 | 03 |              |                     |                     |  |         |         |                                                    |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ} 02' 3''$   $\lambda = 121^{\circ} 30' 8''$   $h = 8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.     | $\epsilon$ | r/T. | V   |
|--------|------------|------|-----|
| AN: 16 |            |      | 120 |
| AE: 30 |            |      | 20  |
| Az:    |            |      |     |

| No. | Date   | Phase                                                                                                                          | G. M. T.<br>h m s                                                         | Period<br>s.      | Amplitude<br>A <sub>E</sub> $\mu$ | A <sub>N</sub> $\mu$ | Az<br>" | $\Delta$<br>km | Remarks                                                                                                                                   |
|-----|--------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------|-----------------------------------|----------------------|---------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 126 | Aug. 3 | P <sub>N</sub> E<br>L <sub>N</sub> E<br>M <sub>N</sub><br>M <sub>E</sub><br>L <sub>N</sub><br>L <sub>N</sub><br>F <sub>N</sub> | 3 43 35<br>3 44 21<br>3 44 54<br>3 45 40<br>3 49 31<br>4 35 00<br>4 45 25 | 139<br>259<br>168 | 7558                              | 796                  |         |                | Magnitude reports that the quake felt at Basco, Batanes Islands. Felt in southern part of Formosa. F phase was mistaken by following one. |
| 127 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 4 35 00<br>4 45 25                                                        |                   |                                   |                      |         |                |                                                                                                                                           |
| 128 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 4 51 32<br>4 54 10                                                        |                   |                                   |                      |         |                |                                                                                                                                           |
| 129 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 9 31 35<br>9 56 -                                                         |                   |                                   |                      |         |                | Very faint record. It may be record of strong quake in Tokio.                                                                             |
| 130 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 10 39 07<br>10 43 25<br>11 50 -                                           |                   |                                   |                      |         |                |                                                                                                                                           |
| 131 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 19 53 -<br>19 59 -<br>20 26 -                                             |                   |                                   |                      |         |                |                                                                                                                                           |
| 132 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 8 55 16<br>9 16 -                                                         |                   |                                   |                      |         |                |                                                                                                                                           |
| 133 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 10 01 07<br>10 11 -                                                       |                   |                                   |                      |         |                |                                                                                                                                           |
| 134 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 10 16 22                                                                  |                   |                                   |                      |         |                | Phase F was mistaken by following.                                                                                                        |
| 135 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 10 26 00<br>10 33 -                                                       |                   |                                   |                      |         |                |                                                                                                                                           |
| 136 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 12 04 15<br>12 14 -                                                       |                   |                                   |                      |         |                |                                                                                                                                           |
| 137 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 12 49 00<br>12 58 -                                                       |                   |                                   |                      |         |                |                                                                                                                                           |
| 138 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 16 42 15<br>16 45 -                                                       |                   |                                   |                      |         |                |                                                                                                                                           |
| 139 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 20 41 37<br>20 56 30                                                      |                   |                                   |                      |         |                |                                                                                                                                           |
| 140 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 22 46 19<br>22 56 -                                                       |                   |                                   |                      |         |                |                                                                                                                                           |
| 141 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 23 33 07<br>23 49 -                                                       |                   |                                   |                      |         |                |                                                                                                                                           |
| 142 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 23 54 43<br>0 12 -                                                        |                   |                                   |                      |         |                |                                                                                                                                           |
| 143 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 3 07 32<br>3 22 -                                                         |                   |                                   |                      |         |                |                                                                                                                                           |
| 144 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 4 34 36<br>4 50 -                                                         |                   |                                   |                      |         |                |                                                                                                                                           |
| 145 | "      | L <sub>N</sub><br>F <sub>N</sub>                                                                                               | 5 27 46<br>5 43 30                                                        |                   |                                   |                      |         |                |                                                                                                                                           |



## TAIHOKEU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\varphi=25^{\circ} 02'.3$   $\lambda=121^{\circ} 30'.8$   $h=8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.     | $\varepsilon$ | r/T. | V   |
|--------|---------------|------|-----|
| AN: 16 |               |      | 120 |
| AE: 30 |               |      | 20  |
| AZ:    |               |      |     |

| No. | Date   | Phase                      | G. M. T.<br>Time<br>h m s                               | Period<br>s. | Amplitude<br>A <sub>E</sub> $\mu$ | A <sub>N</sub> $\mu$ | A <sub>Z</sub> $\mu$ | $\Delta$<br>km | Remarks                                                                                                                          |
|-----|--------|----------------------------|---------------------------------------------------------|--------------|-----------------------------------|----------------------|----------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| 146 | Aug. 6 | EN<br>FN                   | 6 02 07<br>6 23 -                                       |              |                                   |                      |                      |                |                                                                                                                                  |
| 147 | "      | EN<br>FN                   | 7 03 20<br>7 23 -                                       |              |                                   |                      |                      |                |                                                                                                                                  |
| 148 | "      | EN<br>FN                   | 8 06 00<br>9 13 -                                       |              |                                   |                      |                      |                |                                                                                                                                  |
| 149 | "      | EN<br>FN                   | 9 49 26<br>10 01 -                                      |              |                                   |                      |                      |                |                                                                                                                                  |
| 150 | "      | EN<br>FN                   | 11 01 54<br>11 11 -                                     |              |                                   |                      |                      |                |                                                                                                                                  |
| 151 | "      | EN<br>FN                   | 11 31 09<br>11 44 30                                    |              |                                   |                      |                      |                |                                                                                                                                  |
| 152 | "      | EN<br>FN                   | 12 08 00<br>12 26 00                                    |              |                                   |                      |                      |                |                                                                                                                                  |
| 153 | "      | EN<br>FN                   | 13 50 28<br>13 57 -                                     |              |                                   |                      |                      |                |                                                                                                                                  |
| 154 | "      | EN<br>FN                   | 14 04 41<br>14 25 25                                    |              |                                   |                      |                      |                |                                                                                                                                  |
| 155 | "      | PN<br>LN<br>MN<br>ME<br>FN | 15 53 00<br>15 53 36<br>15 54 15<br>15 54 47<br>16 20 - | 144<br>9.6   | 663                               | 1.000                |                      |                | The quake was registered in other five stations, namely, Takahashi, Tainan, Keelung, Taito, (Kobeito (Pescadore Is.) and Kansen. |
| 156 | "      | EN<br>FN                   | 16 44 52<br>17 05 -                                     |              |                                   |                      |                      |                |                                                                                                                                  |
| 157 | "      | EN<br>FN                   | 19 57 27<br>20 05 -                                     |              |                                   |                      |                      |                |                                                                                                                                  |
| 158 | "      | EN<br>FN                   | 21 28 38<br>21 39 -                                     |              |                                   |                      |                      |                |                                                                                                                                  |
| 159 | "      | EN<br>FN                   | 22 52 38<br>23 30 -                                     |              |                                   |                      |                      |                |                                                                                                                                  |
| 160 | "      | EE<br>FE                   | 1 14 50<br>1 34 -                                       |              |                                   |                      |                      |                |                                                                                                                                  |
| 161 | "      | EE<br>FE                   | 2 10 37<br>2 45 -                                       |              |                                   |                      |                      |                |                                                                                                                                  |
| 162 | "      | EE<br>FN                   | 5 56 53<br>6 16 -                                       |              |                                   |                      |                      |                |                                                                                                                                  |
| 163 | "      | EE<br>FN                   | 7 00 54<br>7 16 -                                       |              |                                   |                      |                      |                |                                                                                                                                  |
| 164 | "      | EE<br>FN                   | 9 09 12<br>9 30 -                                       |              |                                   |                      |                      |                |                                                                                                                                  |
| 165 | "      | EE<br>FE                   | 9 38 07<br>10 06 -                                      |              |                                   |                      |                      |                |                                                                                                                                  |
| 166 | "      | EE<br>FE                   | 11 05 45<br>11 20 -                                     |              |                                   |                      |                      |                |                                                                                                                                  |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25^{\circ} 02' . 3$   $\lambda = 121^{\circ} 30' . 8$   $h = 8.0$  m. Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum Mass; E.W. Comp. = 16kg. N.S. Comp. = 55kg.

| T.      | $\epsilon$ | r/T. | V   |
|---------|------------|------|-----|
| AN : 16 |            |      | 120 |
| AE : 30 |            |      | 20  |
| Az :    |            |      |     |

| No. | Date   | Phase    | G. M. T.<br>Time<br>h m s                               | Period<br>s. | Amplitude<br>AN $\mu$ | Az $\mu$ | $\Delta$<br>km | Remarks                                                 |
|-----|--------|----------|---------------------------------------------------------|--------------|-----------------------|----------|----------------|---------------------------------------------------------|
| 167 | Aug. 7 | SE<br>FE | 11 34 09<br>12 05 -                                     |              |                       |          |                |                                                         |
| 168 | "      | SE<br>FE | 12 35 41<br>12 58 -                                     |              |                       |          |                |                                                         |
| 169 | "      | SE<br>FE | 15 17 58<br>15 38 -                                     |              |                       |          |                |                                                         |
| 170 | "      | SE<br>FE | 17 05 24<br>17 27 -                                     |              |                       |          |                |                                                         |
| 171 | "      | SE<br>FE | 23 38 19<br>0 08 -                                      |              |                       |          |                |                                                         |
| 172 | "      | SE<br>FE | 1 26 20<br>1 48 -                                       |              |                       |          |                |                                                         |
| 173 | "      | SE<br>FE | 4 12 45<br>4 20 -                                       |              |                       |          |                |                                                         |
| 174 | "      | SE<br>FE | 6 50 38<br>7 10 -                                       |              |                       |          |                |                                                         |
| 175 | "      | SE<br>FE | 8 23 21<br>8 40 -                                       |              |                       |          |                |                                                         |
| 176 | "      | SE<br>FE | 8 53 44<br>9 10 -                                       |              |                       |          |                |                                                         |
| 177 | "      | SE<br>FE | 10 41 15<br>10 50 -                                     |              |                       |          |                |                                                         |
| 178 | "      | SE<br>FE | 11 41 07<br>12 02 -                                     |              |                       |          |                |                                                         |
| 179 | "      | SE<br>FE | 13 39 42<br>13 58 -                                     |              |                       |          |                |                                                         |
| 180 | "      | SE<br>FE | 14 58 41<br>15 12 -                                     |              |                       |          |                |                                                         |
| 181 | "      | SE<br>FE | 16 47 37<br>17 08 -                                     |              |                       |          |                |                                                         |
| 182 | "      | SE<br>FE | 20 42 44<br>20 47 -                                     |              |                       |          |                |                                                         |
| 183 | "      | SE<br>FE | 3 50 30<br>3 12 -                                       |              |                       |          |                |                                                         |
| 184 | "      | SE<br>FE | 14 04 58<br>14 04 08                                    |              |                       |          |                |                                                         |
| 185 | "      | SE<br>FE | 14 11 36<br>14 12 46<br>14 16 28<br>14 22 18<br>15 10 - | 96<br>91     | 195                   |          |                | Simultaneous L waves.<br>F mistaken by following quake. |
| 186 | "      | SE<br>FE | 15 56 22<br>16 18 -                                     |              |                       |          |                |                                                         |
| 187 | "      | SE<br>FE | 16 50 55<br>17 14 -                                     |              |                       |          |                |                                                         |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\varphi = 25^{\circ} 02'.3$   $\lambda = 121^{\circ} 30'.8$   $h = 8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16fg. NS. Comp. = 55kg.

| T.  |    | $\varepsilon$ | r/T. | V   |
|-----|----|---------------|------|-----|
| AN: | 16 |               |      | 120 |
| AE: | 30 |               |      | 20  |
| Az: |    |               |      |     |

| No. | Date   | Phase                      | G. M. T. |                                                              | Period<br>s. | Amplitude               |                         |                         | $\Delta$<br>km | Remarks                                                                        |
|-----|--------|----------------------------|----------|--------------------------------------------------------------|--------------|-------------------------|-------------------------|-------------------------|----------------|--------------------------------------------------------------------------------|
|     |        |                            | h        | m s                                                          |              | A <sub>E</sub><br>$\mu$ | A <sub>N</sub><br>$\mu$ | A <sub>Z</sub><br>$\mu$ |                |                                                                                |
| 188 | Aug. 9 | EE<br>FE                   | 17       | 35 12<br>17 54 -                                             |              |                         |                         |                         |                |                                                                                |
| 189 | "      | EE<br>FE                   | 18       | 06 14<br>18 17 -                                             |              |                         |                         |                         |                |                                                                                |
| 190 | " 10   | EE<br>FE                   | 0        | 26 53<br>1 01 -                                              |              |                         |                         |                         |                |                                                                                |
| 191 | "      | EE<br>FE                   | 13       | 43 28<br>14 13 -                                             |              |                         |                         |                         |                |                                                                                |
| 192 | "      | EE<br>FE                   | 17       | 36 15<br>18 03 -                                             |              |                         |                         |                         |                |                                                                                |
| 193 | " 11   | EE<br>FE                   | 5        | 56 42<br>6 11 -                                              |              |                         |                         |                         |                |                                                                                |
| 194 | "      | EE<br>FE                   | 12       | 37 56<br>12 54 -                                             |              |                         |                         |                         |                |                                                                                |
| 195 | " 15   | EE<br>FE                   | 10       | 00 -<br>10 14 -                                              |              |                         |                         |                         |                |                                                                                |
| 196 | " 16   | EE<br>FE                   | 12       | 17 -<br>12 34 -                                              |              |                         |                         |                         |                | Slight irregular waves with heavy micro.                                       |
| 197 | " 20   | EE<br>LN<br>FE             | 3        | 10 24<br>3 11 25<br>3 33 15                                  |              |                         |                         |                         |                | Slight irregular waves.                                                        |
| 198 | "      | EE<br>FE                   | 5        | 51 40<br>6 12 22                                             |              |                         |                         |                         |                |                                                                                |
| 199 | " 22   | EE<br>EN<br>LN<br>MN<br>FN | 8        | 53 43<br>8 53 44<br>8 54 04<br>8 54 05<br>8 54 31<br>9 07 22 | 1.0          |                         |                         |                         |                | Southern half part of Formosa felt epicenter probably off South-eastern coast. |
| 200 | " 25   | EE<br>MN<br>FE             | 6        | 01 12<br>6 20 53<br>7 29 -                                   | 250          | 98                      |                         | 160                     |                |                                                                                |
| 201 | "      | EE<br>FE                   | 8        | 15 -<br>8 55 -                                               |              |                         |                         |                         |                |                                                                                |
| 202 | "      | EN<br>FN                   | 22       | 00 05<br>22 02 05                                            |              |                         |                         |                         |                |                                                                                |
| 203 | " 26   | EN<br>LN<br>MN<br>FN       | 4        | 08 46<br>4 09 24<br>4 09 40<br>4 11 14                       | 20           |                         |                         | 29                      |                |                                                                                |
| 204 | " 27   | EN<br>FN                   | 17       | 59 53<br>18 01 11                                            |              |                         |                         |                         |                |                                                                                |
| 205 | " 28   | EN<br>FN                   | 20       | 26 35<br>20 30 12                                            |              |                         |                         |                         |                |                                                                                |
| 206 | " 30   | EN<br>FN                   | 11       | 50 28<br>12 26 -                                             |              |                         |                         |                         |                |                                                                                |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\varphi = 25^{\circ} 02' 3$      $\lambda = 121^{\circ} 30' 8$      $h = 8.0$  m.    Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; E.W. Comp. = 16kg. N.S. Comp. = 55kg.

| T.  | $\varepsilon$ |    | r/T. | V   |
|-----|---------------|----|------|-----|
|     | AN            | AE |      |     |
| 16  |               |    |      | 120 |
| 30  |               |    |      | 20  |
| Az: |               |    |      |     |

| No. | Date    | Phase                                         | G. M. T.                                                             |                                             | Period<br>s. | A <sub>E</sub><br>μ | Amplitude           |    | Az<br>μ | Δ<br>km | Remarks                                                                   |
|-----|---------|-----------------------------------------------|----------------------------------------------------------------------|---------------------------------------------|--------------|---------------------|---------------------|----|---------|---------|---------------------------------------------------------------------------|
|     |         |                                               | h                                                                    | m s                                         |              |                     | A <sub>N</sub><br>μ |    |         |         |                                                                           |
| 207 | Aug. 31 | EN<br>FN                                      | 6 00                                                                 | 45                                          |              |                     |                     |    |         |         | Felt in south eastern coast of Formosa.                                   |
| 208 | "       | EN<br>FN                                      | 17 26<br>17 28                                                       | 18<br>00                                    |              |                     |                     |    |         |         |                                                                           |
| 209 | Sept. 2 | PNE<br>LN<br>LE<br>FE                         | 1 34<br>1 44<br>1 44<br>4 17                                         | 21<br>40<br>48<br>-                         |              |                     |                     |    |         |         |                                                                           |
| 210 | " 3     | EN<br>MN<br>FN                                | 12 15<br>12 16<br>12 18                                              | 00<br>04<br>45                              | 14           |                     |                     |    |         |         | Felt in southern coast of Formosa.                                        |
| 211 | " 4     | PNE<br>SE<br>SN<br>LE<br>ME<br>FE             | 15 42<br>15 46<br>15 46<br>15 51<br>15 55<br>16 27                   | 25<br>52<br>55<br>17<br>00<br>-             | 144          | 63                  |                     |    |         |         |                                                                           |
| 212 | " 5     | SE<br>LE<br>FE                                | 4 35<br>4 38<br>4 55                                                 | 20<br>36<br>-                               |              |                     |                     |    |         |         |                                                                           |
| 213 | " 6     | LE<br>FE                                      | 15 39<br>15 51                                                       | -<br>-                                      |              |                     |                     |    |         |         | Very faint sinusoidal waves.                                              |
| 214 | " 7     | PN<br>SE<br>SN<br>LE<br>LN<br>ME<br>FE        | 12 30<br>12 36<br>12 36<br>12 39<br>12 40<br>12 40<br>13 21          | 29<br>16<br>17<br>45<br>46<br>02<br>-       | 182          | 75                  |                     |    |         |         | Felt in southern mountainous districts.                                   |
| 215 | " 8     | PN<br>LE<br>LN<br>MN<br>ME<br>FE              | 13 49<br>13 50<br>13 50<br>13 50<br>13 51<br>13 59                   | 57<br>24<br>25<br>30<br>30<br>29            | 24<br>14     | 97                  | 182                 |    |         |         |                                                                           |
| 216 | " "     | SE<br>FE                                      | 15 59<br>16 11                                                       | 30<br>25                                    |              |                     |                     |    |         |         |                                                                           |
| 217 | " 9     | PN<br>LN<br>MN<br>FN                          | 1 34<br>1 35<br>1 35<br>1 57                                         | 35<br>35<br>39<br>-                         | 29           |                     |                     |    |         |         | Registered in other three stations, namely Tachik, Lanan, Kanku.          |
| 218 | " 10    | PNE<br>FE<br>SN<br>SE<br>LE<br>ME<br>MN<br>FN | 10 41<br>10 43<br>10 46<br>10 47<br>10 49<br>10 55<br>10 59<br>11 53 | 27<br>07<br>54<br>04<br>36<br>21<br>27<br>- | 259<br>163   | 370                 |                     | 35 |         |         | Registered in other four stations, namely Tachik, Lanan, Taito and Kanku. |
| 219 | " "     | EN<br>FN                                      | 14 37<br>14 39                                                       | 44<br>-                                     |              |                     |                     |    |         |         |                                                                           |

Very faint, surrounded by waves.

Felt in southern mountainous districts.

Registered in other three stations, namely Taichū, Tainan, Keelung.

Registered in other four stations, namely Taichū, Tainan, Fuzhou and Keelung.



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\varphi=25^{\circ} 02'.3$   $\lambda=121^{\circ} 30'.8$   $h=8.0$  m. Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; E.W. Comp.=16kg. N.S. Comp.=55kg.

| T.     | $\epsilon$ | r/T. | V   |
|--------|------------|------|-----|
| AN: 16 |            |      | 120 |
| AE: 30 |            |      | 20  |
| Az:    |            |      |     |

| No. | Date     | Phase                | G. M. T.<br>Time<br>h m s                    | Period<br>s. | Amplitude<br>AN $\mu$ | Az<br>$\mu$ | $\Delta$<br>km | Remarks                                                                                           |
|-----|----------|----------------------|----------------------------------------------|--------------|-----------------------|-------------|----------------|---------------------------------------------------------------------------------------------------|
| 220 | Sept. 12 | PE<br>LE<br>NE<br>FE | 15 44 24<br>15 45 04<br>15 45 24<br>16 50 -  | 14           | 379                   |             |                | Felt all over the island of Formosa.<br>Epicenter probably off the S.W. coast.                    |
| 221 | "        | EN                   | 16 06 38                                     |              |                       |             |                | Emerges in the trail of preceding, hence<br>F not discomible, and afterwork of pre-<br>going one. |
| 222 | "        | EN                   | 16 18 37                                     |              |                       |             |                |                                                                                                   |
| 223 | "        | EN                   | 16 22 56                                     |              |                       |             |                |                                                                                                   |
| 224 | "        | EN                   | 16 29 43                                     |              |                       |             |                |                                                                                                   |
| 225 | "        | EN<br>FN             | 16 56 16<br>17 04 -                          |              |                       |             |                | (221)-(225) are after-shocks of No. 220<br>and felt in S.W. coast.                                |
| 226 | "        | EN<br>FN             | 18 50 55<br>18 56 -                          |              |                       |             |                | Same remark as before.                                                                            |
| 227 | "        | EN<br>FN             | 19 02 49<br>19 07 -                          |              |                       |             |                | Do.                                                                                               |
| 228 | "        | EN<br>FN             | 19 54 06<br>19 56 -                          |              |                       |             |                | Do.                                                                                               |
| 229 | "        | EN<br>FN             | 22 33 25<br>22 36 30                         |              |                       |             |                | Do.                                                                                               |
| 230 | "        | EN<br>FN             | 23 46 36<br>23 49 55                         | 14           |                       |             | 52             | Do.                                                                                               |
| 231 | " 13     | FN<br>LN<br>MN<br>FN | 4 18 51<br>4 19 10<br>4 19 12<br>4 22 48     |              |                       |             |                | Do.                                                                                               |
| 232 | "        | EN<br>FN             | 8 45 26<br>8 49 18                           |              |                       |             |                | Do.                                                                                               |
| 233 | " 15     | EE<br>LE<br>FE       | 12 07 35<br>12 17 07<br>12 30 -              |              |                       |             |                | Felt at Baiman's, East coast.                                                                     |
| 234 | " 16     | EN<br>FN             | 3 23 50<br>3 24 53                           |              |                       |             |                | Felt at Gandais, southern district.                                                               |
| 235 | "        | EN<br>LN<br>LE<br>FE | 18 08 11<br>18 15 23<br>18 15 38<br>19 33 -  |              |                       |             |                | Felt in southern mountainous dis-<br>tricts                                                       |
| 236 | "        | EN<br>FN             | 18 45 12<br>18 50 10                         | 10           |                       |             | 24             | Registered in Kaimoku and Kookan.                                                                 |
| 237 | "        | EN<br>LN<br>MN<br>FN | 19 07 56<br>19 08 30<br>19 08 41<br>19 12 12 |              |                       |             |                | Felt at Kaga.                                                                                     |
| 238 | " 17     | EN<br>FN             | 8 36 34<br>8 37 45                           |              |                       |             |                |                                                                                                   |
| 239 | "        | EN<br>FN             | 16 27 20<br>16 29 10                         |              |                       |             |                |                                                                                                   |



## TAIHKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25.02'.3$   $\lambda = 121^{\circ}30'.8$   $h = 8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.   |    | r/T. |  | V. |     |
|------|----|------|--|----|-----|
| s.   |    |      |  |    |     |
| AN : | 16 |      |  |    | 120 |
| AE : | 30 |      |  |    | 20  |
| Az : |    |      |  |    |     |

| No. | Date       | Phase                | G. M. T.                                     |     | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km                 | Remarks. |
|-----|------------|----------------------|----------------------------------------------|-----|--------------|-------------|-------------|-------------|--------------------------------|----------|
|     |            |                      | h                                            | m s |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                                |          |
| 1   | Jan. 3     | eN<br>LN<br>MN<br>FN | 22 10 34<br>22 11 03<br>22 11 11<br>22 18 28 |     | 1, 4         | 98          |             |             |                                |          |
| 2   | " 10       | eN<br>FN             | 6 00 19<br>6 02 51                           |     |              |             |             |             |                                |          |
| 3   | " 12       | eN<br>LN<br>FN       | 5 54 01<br>5 54 11<br>5 55 11                |     |              |             |             |             |                                |          |
| 4   | " 17       | LN<br>FN             | 22 05 45<br>22 20 --                         |     |              |             |             |             | Sinusoidal L waves.            |          |
| 5   | " 21       | eN<br>FN             | 11 12 00<br>11 13 45                         |     |              |             |             |             |                                |          |
| 6   | " 24       | PN<br>LN<br>FN       | 1 15 50<br>1 24 02<br>2 40 --                |     |              |             |             |             |                                |          |
| 7   | " "        | eN<br>FN             | 7 03 29<br>7 35 --                           |     |              |             |             |             | Faint sinusoidal L waves.      |          |
| 8   | " 25<br>26 | LN<br>FN             | 23 37 --<br>0 20 --                          |     |              |             |             |             |                                |          |
| 9   | " 26       | eE<br>FN             | 15 54 51<br>16 30 --                         |     |              |             |             |             | Very faint sinusoidal L waves. |          |
| 10  | " 30       | EE<br>FE             | 3 09 --<br>3 33 --                           |     |              |             |             |             | Do.                            |          |
| 11  | " "        | LE<br>FE             | 9 19 --<br>9 35 --                           |     |              |             |             |             | Do                             |          |
| 12  | " 31       | LE<br>FN             | 15 23 54<br>15 26 05                         |     |              |             |             |             | Local shock.                   |          |
| 13  | Feb. 1     | eN<br>LN<br>FN       | 8 43 46<br>8 44 01<br>8 45 38                |     |              |             |             |             |                                |          |
| 14  | " "        | eN<br>FN             | 16 13 28<br>16 14 43                         |     |              |             |             |             | Local shock.                   |          |
| 15  | " "        | PE<br>SE<br>LE<br>FE | 18 04 55<br>18 11 28<br>18 16 06<br>19 10 -- |     |              |             |             |             |                                |          |



No. 8

from Feb. 1, to Feb 22 192 7.

## TAIHKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25.02'.3$   $\lambda = 121^{\circ}30'.8$   $h = 8.0m$ . Underground; alluvial.

Instrument ; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.           |  | r/T.    |  | V.      |  |
|--------------|--|---------|--|---------|--|
| $\epsilon$ . |  | $\mu$ . |  | $\mu$ . |  |
| AN : 16      |  |         |  | 120     |  |
| AE : 30      |  |         |  | 20      |  |
| Az :         |  |         |  |         |  |

| No. | Date   | Phase | G. M. T. |  | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                    |
|-----|--------|-------|----------|--|--------------|-------------|-------------|-------------|----------------|-----------------------------|
|     |        |       |          |  |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                             |
| 16  | Feb. 1 | FN    | 20 57 05 |  |              |             |             |             |                |                             |
|     |        | LN    | 20 57 25 |  |              |             |             |             |                |                             |
|     |        | MM    | 20 57 51 |  | 1, 2         |             | 38          |             |                |                             |
|     |        | FN    | 21 00 25 |  |              |             |             |             |                |                             |
| 17  | "      | eE    | 3 55 15  |  |              |             |             |             |                |                             |
|     |        | LE    | 3 57 05  |  |              |             |             |             |                |                             |
|     |        | MM    | 5 58 10  |  | 2, 0         |             | 247         |             |                |                             |
|     |        | FE    | 4 52 --  |  |              |             |             |             |                |                             |
|     | "      | eE    | 4 54 22  |  |              |             |             |             |                |                             |
|     |        | LE    | 4 56 07  |  |              |             |             |             |                |                             |
|     |        | FE    | 5 22 --  |  |              |             |             |             |                |                             |
| 19  | "      | eE    | 16 31 12 |  |              |             |             |             |                |                             |
|     |        | FE    | 16 32 38 |  |              |             |             |             |                |                             |
| 20  | "      | eE    | 14 53 55 |  |              |             |             |             |                |                             |
|     |        | FE    | 14 56 20 |  |              |             |             |             |                |                             |
| 21  | "      | EN    | 3 47 21  |  |              |             |             |             |                | Local shock.                |
|     |        | FN    | 3 48 20  |  |              |             |             |             |                | Do.                         |
| 22  | "      | eN    | 5 12 16  |  |              |             |             |             |                |                             |
|     |        | FN    | 5 13 42  |  |              |             |             |             |                |                             |
| 23  | "      | eE    | 3 44 --  |  |              |             |             |             |                | Very faint irregular waves. |
|     |        | FE    | 4 00 --  |  |              |             |             |             |                |                             |
| 24  | "      | PE    | 1 42 09  |  |              |             |             |             |                |                             |
|     |        | SE    | 1 48 36  |  |              |             |             |             |                |                             |
|     |        | SH    | 1 48 42  |  |              |             |             |             |                |                             |
|     |        | LE    | 1 53 52  |  |              |             |             |             |                |                             |
|     |        | ML    | 1 56 55  |  | 16, 5        | 1038        |             |             |                |                             |
| 25  | "      | eE    | 2 59 46  |  |              |             |             |             |                |                             |
|     |        | LE    | 3 17 27  |  | 21, 5        | 315         |             |             |                |                             |
|     |        | FE    | 4 37 --  |  |              |             |             |             |                |                             |
| 26  | "      | EN    | 23 04 42 |  |              |             |             |             |                |                             |
|     |        | FN    | 23 06 45 |  |              |             |             |             |                |                             |
| 27  | "      | PN    | 2 00 49  |  |              |             |             |             |                |                             |
|     |        | LV    | 2 01 21  |  |              |             |             |             |                |                             |
|     |        | MM    | 2 01 45  |  |              |             |             |             |                |                             |
|     |        | EN    | 2 09 13  |  | 1, 0         |             | 29          |             |                |                             |
| 28  | "      | eE    | 12 29 42 |  |              |             |             |             |                |                             |
|     |        | FE    | 12 52 16 |  |              |             |             |             |                |                             |
| 29  | "      | eE    | 20 15 55 |  |              |             |             |             |                |                             |
|     |        | FE    | 20 26 55 |  |              |             |             |             |                |                             |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25.02'.3$   $\lambda = 121^{\circ}30'.8$   $h = 8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |    | r/T.  |  | V.    |     |
|------|----|-------|--|-------|-----|
| s.   |    | $\mu$ |  | $\mu$ |     |
| AN : | 16 |       |  |       | 120 |
| AE : | 30 |       |  |       | 20  |
| Az : |    |       |  |       |     |

| No. | Date    | Phase                               | G. M. T.                                                       |  | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                                                                                                                              |
|-----|---------|-------------------------------------|----------------------------------------------------------------|--|--------------|-------------|-------------|-------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |         |                                     |                                                                |  |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                                                                                                                                       |
| 30  | Feb. 25 | eN<br>FN                            | 9 27 38<br>9 30 16                                             |  |              |             |             |             |                |                                                                                                                                                       |
| 31  | " 25    | eN<br>FN                            | 7 19 26<br>7 20 49                                             |  |              |             |             |             |                |                                                                                                                                                       |
| 32  | " "     | eN<br>LN<br>FN                      | 10 02 24<br>10 02 39<br>10 05 07                               |  |              |             |             |             |                |                                                                                                                                                       |
| 33  | " 27    | PN<br>PE<br>LINE<br>ME<br>MN<br>FNE | 3 54 15<br>3 54 14<br>3 54 34<br>3 54 47<br>3 54 49<br>4 09 00 |  | 1,0<br>1,0   | 170         | 253         |             |                |                                                                                                                                                       |
| 34  | Mar. 2  | eN<br>LN<br>MN<br>FN                | 7 34 27<br>7 34 42<br>7 34 47<br>7 36 48                       |  | 0,5          |             | 25          |             |                |                                                                                                                                                       |
| 35  | " 5     | PN<br>SN<br>LN<br>FN                | 1 11 59<br>1 17 11<br>1 20 43<br>2 05 --                       |  |              |             |             |             |                |                                                                                                                                                       |
| 36  | " "     | LE<br>FE                            | 17 03 --<br>17 35 --                                           |  |              |             |             |             |                | Very faint sinusoidal L wave                                                                                                                          |
| 37  | " 7     | PN<br>LN<br>FN                      | 9 31 51<br>9 34 55<br>11 20 --                                 |  |              |             |             |             |                | The pens of both components were thrown out of the drums of the fort of shock. It is record of the destructive earthquake in Japan sea coast N Tango. |
| 38  | " 8     | eN<br>FN                            | 12 39 09<br>12 40 52                                           |  |              |             |             |             |                |                                                                                                                                                       |
| 39  | " 14    | eE<br>LE<br>MN<br>ME<br>FE          | 17 44 35<br>17 46 46<br>17 47 22<br>17 48 38<br>18 04 --       |  | 13,4<br>9,6  | 170         | 285         |             |                |                                                                                                                                                       |
| 40  | " 15    | PNE<br>LINE<br>ME<br>MN<br>FN       | 7 57 51<br>7 58 11<br>7 58 13<br>7 58 20<br>8 05 --            |  | 1,2<br>1,2   | 318         | 404         |             |                |                                                                                                                                                       |



## TAIYOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ}02'3$   $\lambda=121^{\circ}30'8$   $h=8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.      | $\epsilon$ . | r/T. | V.  |
|---------|--------------|------|-----|
| AN : 16 |              |      | 120 |
| AE : 30 |              |      | 20  |
| Az :    |              |      |     |

| No. | Date    | Phase                        | G. M. T.                                                 |     | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km                             | Remarks. |
|-----|---------|------------------------------|----------------------------------------------------------|-----|--------------|-------------|-------------|-------------|--------------------------------------------|----------|
|     |         |                              | h                                                        | m s |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                                            |          |
| 41  | Mar. 15 | PNE<br>INE<br>ME<br>MN<br>FN | 8 22 11<br>8 22 32<br>8 22 54<br>8 22 56<br>8 32 55      |     | 1.4<br>1.9   | 293         | 539         |             | Felt in northern Formosa.                  |          |
| 42  | "       | PNE<br>INE<br>ME<br>MN<br>FN | 16 03 24<br>16 03 42<br>16 03 44<br>16 03 46<br>16 10 -- |     | 1.2<br>1.4   | 175         | 267         |             | Felt in northern Formosa.                  |          |
| 43  | "       | eE<br>FE                     | 17 07 25<br>17 20 --                                     |     |              |             |             |             | Irregular wave. P was obscured by microse. |          |
| 44  | "       | PN<br>L<br>MN<br>FN          | 17 27 12<br>17 27 32<br>17 27 56<br>17 30 --             |     | 1.4          |             | 43          |             | Very slight record.                        |          |
| 45  | "       | eE<br>LE<br>FE               | 21 58 24<br>22 02 05<br>22 20 --                         |     |              |             |             |             |                                            |          |
| 46  | " 16    | eN<br>FN                     | 4 50 38<br>4 51 54                                       |     |              |             |             |             | Local shock.                               |          |
| 47  | "       | eN<br>LN<br>FN               | 5 06 11<br>5 06 23<br>5 07 50                            |     |              |             |             |             | Do.                                        |          |
| 48  | " 17    | eN<br>FN                     | 2 12 04<br>2 13 40                                       |     |              |             |             |             | Do.                                        |          |
| 49  | " 19    | eN<br>MN<br>FN               | 21 13 58<br>21 14 12<br>21 20 46                         |     | 1.2          | 63          |             |             |                                            |          |
| 50  | " 20    | eN<br>FN                     | 3 51 16<br>3 53 23                                       |     |              |             |             |             | Felt in eastern coast of Formosa.          |          |
| 51  | " 30    | eN<br>LN<br>MN<br>FN         | 0 56 33<br>0 56 51<br>0 56 57<br>0 59 49                 |     | 1.0          |             | 23          |             | Do.                                        |          |
| 52  | " 31    | eN<br>LN<br>MN<br>FN         | 3 21 25<br>3 21 43<br>3 22 04<br>3 24 47                 |     | 1.2          |             | 59          |             | Felt at Batoran, eastern coast of Formosa. |          |



## TAIYOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ}02'3$   $\lambda=121^{\circ}30'8$   $h=8.0m$ . Underground; alluvial.

Instrument ; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

T.  $\epsilon$ . r/T. V.

AN : 16

120

AE : 30

20

Az :

| No. | Date    | Phase          | G. M. T.<br>Time<br>h m s        | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                                    |
|-----|---------|----------------|----------------------------------|--------------|-------------|-------------|-------------|----------------|-------------------------------------------------------------|
|     |         |                |                                  |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                                             |
| 53  | Mar. 31 | eE             | 21 16 54                         |              |             |             |             |                |                                                             |
| 54  | Apr. 1  | eN<br>LN<br>FN | 19 25 29<br>19 26 18<br>19 43 00 |              |             |             |             |                | May be one of the aftershocks of No. 37. Very faint record. |
| 55  | " 3     | PN<br>LN<br>FN | 20 12 21<br>20 12 56<br>20 29 -- |              |             |             |             |                |                                                             |
| 56  | " 7     | PN<br>LN<br>FN | 18 08 07<br>18 08 42<br>18 10 49 |              |             |             |             |                | Felt at Shinkaton, eastern coast of Formosa.                |
| 57  | " 10    | LN<br>MN       | 13 46 32<br>13 47 00             |              |             |             |             |                | F was overtaken by following earthquake.                    |
| 58  | " "     | eN<br>FN       | 13 57 27<br>14 12 --             |              |             |             |             |                |                                                             |
| 59  | " "     | eN<br>FN       | 14 36 22<br>14 44 19             |              |             |             |             |                |                                                             |
| 60  | " 14    | PE<br>FE       | 6 44 16<br>8 37 --               |              |             |             |             |                |                                                             |
| 61  | " 15    | eN<br>FN       | 17 23 22<br>17 24 27             |              |             |             |             |                |                                                             |
| 62  | " 16    | IE<br>FE       | 8 36 --<br>9 03 --               |              |             |             |             |                | Simultaneous I was 3.                                       |
| 63  | " "     | PN<br>LN<br>FN | 19 01 35<br>19 01 46<br>19 03 32 |              |             |             |             |                |                                                             |
| 64  | " 17    | PN<br>FN       | 5 57 54<br>6 00 00               |              |             |             |             |                |                                                             |
| 65  | " 17    | "<br>FN        | 3 12 28<br>3 14 09               |              |             |             |             |                |                                                             |
| 66  | " 19    | LN<br>MN<br>FN | 17 32 25<br>17 32 30<br>18 03 -- |              |             |             |             |                |                                                             |
| 67  | " 23    | eE<br>FE       | 5 20 48<br>5 24 13               |              |             |             |             |                |                                                             |



## TAIHOKEU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ}02'.3$   $\lambda=121^{\circ}30'.8$   $h=8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.           |         | r/T.         |         | V.           |         |
|--------------|---------|--------------|---------|--------------|---------|
| $\epsilon$ . | $\mu$ . | $\epsilon$ . | $\mu$ . | $\epsilon$ . | $\mu$ . |
| AN :         | 16      |              |         |              | 120     |
| AE :         | 30      |              |         |              | 20      |
| Az :         |         |              |         |              |         |

| No. | Date    | Phase                            | G. M. T.<br>Time<br>h m s                                            | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                          |
|-----|---------|----------------------------------|----------------------------------------------------------------------|--------------|-------------|-------------|-------------|----------------|---------------------------------------------------|
|     |         |                                  |                                                                      |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                                   |
| 68  | Apr. 25 | PNE<br>LNE<br>FNE                | 13 22 08<br>13 23 06<br>13 27 02                                     |              |             |             |             |                |                                                   |
| 69  | " 26    | eN<br>FN                         | 10 34 02<br>10 36 19                                                 |              |             |             |             |                |                                                   |
| 70  | " "     | eN<br>FN                         | 12 27 31<br>12 30 36                                                 |              |             |             |             |                |                                                   |
| 71  | " 27    | PE<br>SE<br>LE<br>FF             | 19 20 48<br>19 24 06<br>19 26 12<br>19 43 --                         |              |             |             |             |                |                                                   |
| 72  | " 28    | PN<br>LN<br>LN<br>ME<br>LN<br>FN | 10 25 20<br>10 25 50<br>10 25 51<br>10 25 54<br>10 25 56<br>10 41 50 | 1.4<br>1.9   | 440         | 598         |             |                | Felt in Taito district, eastern coast of Formosa. |
| 73  | " "     | eN<br>FN                         | 21 23 00<br>21 31 44                                                 |              |             |             |             |                |                                                   |
| 74  | " 29    | PN<br>LN<br>FN                   | 14 25 57<br>14 26 08<br>14 28 23                                     |              |             |             |             |                | Felt at Dainanwo, coast of eastern Formosa.       |
| 75  | " "     | PN<br>FN                         | 17 06 12<br>17 08 30                                                 |              |             |             |             |                | Felt at Sekitei northern district of Formosa.     |
| 76  | " "     | eN<br>FN                         | 23 37 02<br>23 38 07                                                 |              |             |             |             |                | Felt at Karenko, eastern coast of Formosa.        |
| 77  | " 30    | eN<br>FN                         | 5 36 04<br>5 37 48                                                   |              |             |             |             |                |                                                   |
| 78  | " "     | eN<br>FN                         | 6 30 00<br>6 33 04                                                   |              |             |             |             |                |                                                   |
| 79  | May 6   | eN<br>LN<br>LN<br>FN             | 5 05 12<br>5 05 15<br>5 05 15<br>5 05 42                             | 1.0          |             | 22          |             |                |                                                   |
| 80  | " "     | eN<br>LN<br>MN<br>FN             | 9 57 22<br>9 57 32<br>9 57 34<br>9 59 35                             | 1.0          |             | 72          |             |                |                                                   |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ}02'.3$   $\lambda = 121^{\circ}30'.8$   $h = 8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |  | $\epsilon$ . |  | r/T. |  | V.  |  |
|------|--|--------------|--|------|--|-----|--|
| AN : |  | 16           |  |      |  | 120 |  |
| AE : |  | 30           |  |      |  | 20  |  |
| Az : |  |              |  |      |  |     |  |

| No. | Date  | Phase                | G. M. T. |    |    | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                                   |
|-----|-------|----------------------|----------|----|----|--------------|-------------|-------------|-------------|----------------|------------------------------------------------------------|
|     |       |                      | h        | m  | s  |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                                            |
| 81  | May 6 | eN<br>FN             | 23       | 09 | 24 |              |             |             |             |                |                                                            |
|     |       |                      | 23       | 11 | 54 |              |             |             |             |                |                                                            |
| 82  | " 8   | PW<br>LN<br>MN<br>FN | 7        | 46 | 32 |              |             |             |             |                |                                                            |
|     |       |                      | 7        | 46 | 46 |              |             |             |             |                |                                                            |
|     |       |                      | 7        | 46 | 59 | 1.0          | 63          |             |             |                |                                                            |
|     |       |                      | 7        | 51 | 13 |              |             |             |             |                |                                                            |
| 83  | " 10  | LE<br>FE             | 6        | 23 | 50 |              |             |             |             |                | Very faint sinusoidal L waves.                             |
|     |       |                      | 6        | 42 | -- |              |             |             |             |                |                                                            |
| 84  | " "   | LE<br>FE             | 7        | 45 | 43 |              |             |             |             |                | Do.                                                        |
|     |       |                      | 7        | 57 | -- |              |             |             |             |                |                                                            |
| 85  | " "   | PN<br>FN             | 17       | 20 | 06 |              |             |             |             |                |                                                            |
|     |       |                      | 17       | 21 | 55 |              |             |             |             |                |                                                            |
| 86  | " 11  | PN<br>LN<br>FN       | 13       | 09 | 49 |              |             |             |             |                |                                                            |
|     |       |                      | 13       | 10 | 00 |              |             |             |             |                |                                                            |
|     |       |                      | 13       | 11 | 33 |              |             |             |             |                |                                                            |
| 87  | " 12  | PN<br>LN<br>MN<br>FN | 13       | 34 | 06 |              |             |             |             |                |                                                            |
|     |       |                      | 13       | 34 | 28 |              |             |             |             |                |                                                            |
|     |       |                      | 13       | 34 | 30 |              |             |             |             |                |                                                            |
|     |       |                      | 13       | 57 | 36 |              |             |             |             |                |                                                            |
| 88  | " 13  | PL<br>LE<br>FN       | 13       | 15 | 57 |              |             |             |             |                | Press reports that a strong earthquake was felt in Manila. |
|     |       |                      | 13       | 21 | 35 |              |             |             |             |                |                                                            |
|     |       |                      | 13       | 37 | -- |              |             |             |             |                |                                                            |
| 89  | " "   | eN<br>FN             | 17       | 37 | 06 |              |             |             |             |                |                                                            |
|     |       |                      | 17       | 39 | 08 |              |             |             |             |                |                                                            |
| 90  | " "   | eN<br>FN             | 18       | 04 | 56 |              |             |             |             |                |                                                            |
|     |       |                      | 18       | 07 | 57 |              |             |             |             |                |                                                            |
| 91  | " "   | eN<br>FN             | 19       | 59 | 25 |              |             |             |             |                |                                                            |
|     |       |                      | 20       | 01 | 03 |              |             |             |             |                |                                                            |
| 92  | " "   | P<br>LN<br>LE<br>FN  | 23       | 16 | 20 |              |             |             |             |                |                                                            |
|     |       |                      | 23       | 21 | 56 |              |             |             |             |                |                                                            |
|     |       |                      | 23       | 24 | 46 |              |             |             |             |                |                                                            |
|     |       |                      | 23       | 53 | -- |              |             |             |             |                |                                                            |
| 93  | " 14  | PN<br>LN             | 21       | 22 | 48 |              |             |             |             |                |                                                            |
|     |       |                      | 21       | 24 | 07 |              |             |             |             |                |                                                            |
| 94  | " 15  | eN<br>FN             | 16       | 13 | 32 |              |             |             |             |                |                                                            |
|     |       |                      | 16       | 18 | 05 |              |             |             |             |                |                                                            |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ} 02'.3$   $\lambda=121^{\circ} 30'.8$   $h=8.0$  m. Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16fg. NS. Comp.=55kg.

| T.         |    | r/T.  |  | V     |     |
|------------|----|-------|--|-------|-----|
| $\epsilon$ |    | $\mu$ |  | $\mu$ |     |
| AN:        | 16 |       |  |       | 120 |
| AE:        | 30 |       |  |       | 20  |
| Az:        |    |       |  |       |     |

| No. | Date   | Phase                | G. M. T.<br>Time<br>h m s                    | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks                |
|-----|--------|----------------------|----------------------------------------------|--------------|-------------|-------------|-------------|----------------|------------------------|
|     |        |                      |                                              |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                        |
| 95  | May 16 | eE<br>FN             | 12 05 05<br>12 50 52                         |              |             |             |             |                |                        |
| 96  | "      | FN<br>LN<br>MN<br>FN | 17 10 01<br>17 10 12<br>17 10 12<br>17 12 53 | 0.7          |             | 59          |             |                | Point irregular waves. |
| 97  | "      | FN<br>LN<br>MN<br>FN | 17 21 02<br>17 21 16<br>17 21 18<br>17 23 55 | 0.8          |             | 59          |             |                |                        |
| 98  | "      | GN<br>LN<br>FN       | 17 58 51<br>17 59 09<br>18 01 10             |              |             |             |             |                |                        |
| 99  | "      | PN<br>LN<br>FN       | 11 59 49<br>12 03 39<br>12 30 --             |              |             |             |             |                |                        |
| 100 | "      | PNE<br>SNE<br>F      | 22 37 36<br>22 41 19<br>1 10 --              |              |             |             |             |                |                        |
| 101 | "      | eE<br>FE             | 1 19 44<br>1 22 04                           |              |             |             |             |                |                        |
| 102 | "      | eE<br>FN             | 1 38 27<br>2 07 --                           |              |             |             |             |                |                        |
| 103 | "      | eNE<br>INE<br>FE     | 2 50 46<br>2 53 44<br>3 15 --                |              |             |             |             |                |                        |
| 104 | "      | eE<br>FE             | 6 46 55<br>6 53 --                           |              |             |             |             |                |                        |
| 105 | "      | eNE<br>LNE<br>FE     | 13 53 20<br>14 02 57<br>14 18 --             |              |             |             |             |                |                        |
| 106 | "      | eE                   | 23 52 42                                     |              |             |             |             |                |                        |
| 107 | "      | eE<br>FE             | 0 05 49<br>0 18 --                           |              |             |             |             |                |                        |
| 108 | June 1 | eN<br>LN<br>MN<br>FN | 4 07 50<br>4 08 03<br>4 08 04<br>4 09 42     | 1.0          |             | 27          |             |                |                        |
| 109 | "      | eE<br>FN             | 7 29 32<br>7 32 20                           |              |             |             |             |                |                        |

F was sent in next quake.



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ}02'.3$   $\lambda=121^{\circ}30'.8$   $h=8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.   |  | $\epsilon$ . |  | r/T. |  | V.  |  |
|------|--|--------------|--|------|--|-----|--|
| AN : |  | 16           |  |      |  | 120 |  |
| AE : |  | 30           |  |      |  | 20  |  |
| Az : |  |              |  |      |  |     |  |

| No. | Date   | Phase                                               | G. M. T.<br>Time<br>h m s                                                                       | Period<br>s.                 | Amplitude    |             |             | $\Delta$<br>km | Remarks.                                        |
|-----|--------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------|--------------|-------------|-------------|----------------|-------------------------------------------------|
|     |        |                                                     |                                                                                                 |                              | AE<br>$\mu$  | AN<br>$\mu$ | Az<br>$\mu$ |                |                                                 |
| 110 | June 1 | eE<br>FE                                            | 13 57 32<br>13 58 33                                                                            |                              |              |             |             |                |                                                 |
| 111 | "      | eN<br>LN<br>FN                                      | 22 09 15<br>22 09 32<br>22 10 55                                                                |                              |              |             |             |                |                                                 |
| 112 | "      | eN<br>LN<br>MN<br>FN                                | 23 27 43<br>23 28 00<br>23 28 01<br>23 30 09                                                    | 1.0                          |              | 34          |             |                |                                                 |
| 113 | " 3    | PNE<br>SE<br>LN<br>LE<br>MN<br>ME<br>MN<br>ME<br>FE | 7 19 33<br>7 22 14<br>7 24 18<br>7 24 19<br>7 27 42<br>7 29 30<br>7 31 13<br>7 36 00<br>8 55 -- | 16.8<br>28.8<br>25.4<br>26.9 | 1275<br>1785 | 102<br>208  |             |                |                                                 |
| 114 | " 6    | PNE<br>LNE<br>MN<br>ME<br>FN                        | 3 24 57<br>3 25 15<br>3 25 16<br>3 25 37<br>3 41 --                                             | 1.0<br>1.2                   | 263          | 279         |             |                | Felt at Karenko, eastern coast<br>of Formosa.   |
| 115 | " 7    | PNE<br>LN<br>MN<br>FN                               | 17 50 34<br>17 50 43<br>17 50 44<br>17 53 08                                                    | 1.0                          |              | 43          |             |                |                                                 |
| 116 | " 8    | eE<br>FE                                            | 0 30 25<br>0 33 50                                                                              |                              |              |             |             |                |                                                 |
| 117 | " 9    | PN<br>LN<br>MN                                      | 11 37 38<br>11 38 21<br>11 39 25                                                                | 2.9                          |              | 58          |             |                | Weakly felt in southern district<br>of Formosa. |
| 118 | " 10   | eN<br>FN                                            | 22 15 26<br>22 16 15                                                                            |                              |              |             |             |                |                                                 |
| 119 | " 11   | eN<br>LN<br>FN                                      | 2 38 14<br>2 43 58<br>2 40 --                                                                   |                              |              |             |             |                |                                                 |
| 120 | " 14   | PE<br>LE<br>ME<br>FE                                | 0 35 29<br>0 35 41<br>0 35 43<br>0 42 07                                                        | 0.8                          | 213          |             |             |                | Felt in northern half part of<br>Formosa.       |



## TAIHOKEI, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25.02'.3$   $\lambda=121^{\circ}30'.8$   $h=8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.      | $\epsilon$ . | r/T. | V.  |
|---------|--------------|------|-----|
| AN : 16 |              |      | 120 |
| AE : 30 |              |      | 20  |
| Az :    |              |      |     |

| No. | Date    | Phase                       | G. M. T.                                                 |    |    | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km     | Remarks. |
|-----|---------|-----------------------------|----------------------------------------------------------|----|----|--------------|-------------|-------------|-------------|--------------------|----------|
|     |         |                             | h                                                        | m  | s  |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                    |          |
| 121 | June 18 | Pn<br>FN                    | 0                                                        | 58 | 00 |              |             |             |             |                    |          |
|     | " 23    | eN<br>LN<br>MN<br>FN        | 14 32 31<br>14 32 42<br>14 32 53<br>14 36 46             |    |    | 1.2          |             | 39          |             |                    |          |
| 123 | "       | eN<br>FN                    | 15 19 26<br>15 21 05                                     |    |    |              |             |             |             |                    |          |
| 124 | " 24    | eN<br>FN                    | 23 53 --<br>0 07 --                                      |    |    |              |             |             |             |                    |          |
| 125 | " 25    | PN<br>LN<br>MN<br>FN        | 17 45 43<br>17 46 00<br>17 46 04<br>17 49 22             |    |    | 1.9          |             | 89          |             |                    |          |
| 126 | "       | PNE<br>LN<br>ME<br>MN<br>FN | 17 49 45<br>17 50 04<br>17 50 07<br>17 50 30<br>17 57 25 |    |    | 1.4<br>1.7   | 280         |             | 225         |                    |          |
| 127 | " 28    | eN<br>FN                    | 8 40 47<br>8 42 15                                       |    |    |              |             |             |             |                    |          |
| 128 | "       | eN<br>FN                    | 11 40 26<br>11 41 44                                     |    |    |              |             |             |             |                    |          |
| 129 | "       | eN<br>FN                    | 15 45 04<br>15 46 41                                     |    |    |              |             |             |             |                    |          |
| 130 | "       | eN<br>LN<br>FN              | 22 43 27<br>22 43 35<br>22 45 41                         |    |    |              |             |             |             |                    |          |
| 131 | July 1  | eE<br>FE                    | 9 03 --<br>9 32 --                                       |    |    |              |             |             |             | Faint record       |          |
| 132 | "       | eN<br>LN<br>FN              | 10 41 18<br>10 41 34<br>10 43 00                         |    |    |              |             |             |             |                    |          |
| 133 | "       | eN<br>LN<br>FN              | 10 56 59<br>10 57 13<br>10 59 32                         |    |    |              |             |             |             |                    |          |
| 134 | " 2     | eE<br>FE                    | 20 49 05<br>21 00 00                                     |    |    |              |             |             |             | Very faint record. |          |



## TAIHOKE, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi = 25.02'3$   $\lambda = 121^{\circ}30'8$   $h = 8.0m$ . Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |    | r/T. |  | V.   |     |
|------|----|------|--|------|-----|
| s.   |    |      |  |      |     |
| AN : | 16 |      |  | AN : | 120 |
| AE : | 30 |      |  | AE : | 20  |
| Az : |    |      |  | Az : |     |

| No. | Date   | Phase                   | G. M. T.<br>Time<br>h m s                    | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.            |
|-----|--------|-------------------------|----------------------------------------------|--------------|-------------|-------------|-------------|----------------|---------------------|
|     |        |                         |                                              |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                     |
| 135 | July 3 | eN<br>LN<br>FN          | 8 19 34<br>8 22 28<br>8 45 --                |              |             |             |             |                |                     |
| 136 | "      | eN<br>FN                | 18 42 30<br>18 49 29                         |              |             |             |             |                |                     |
| 137 | "      | eN<br>FN                | 23 28 42<br>23 34 20                         |              |             |             |             |                |                     |
| 138 | "      | eN<br>FN                | 1 20 28<br>1 22 14                           |              |             |             |             |                |                     |
| 139 | "      | eN<br>FN                | 19 36 14<br>19 37 25                         |              |             |             |             |                |                     |
| 140 | "      | FE<br>LE<br>FE          | 21 13 50<br>21 18 26<br>21 41 --             |              |             |             |             |                |                     |
| 141 | "      | PN<br>LN<br>MN<br>FN    | 6 24 49<br>6 25 04<br>6 25 08<br>6 31 25     | 1.0          |             |             | 99          |                |                     |
| 142 | "      | eN<br>FN                | 8 58 55.<br>9 00 03                          |              |             |             |             |                |                     |
| 143 | "      | eN<br>LN<br>FN          | 9 29 49<br>9 30 08<br>9 32 22                |              |             |             |             |                |                     |
| 144 | "      | PN<br>LN<br>FN          | 14 07 50<br>14 08 05<br>14 10 52             |              |             |             |             |                |                     |
| 145 | "      | PN 51<br>LN<br>MN<br>FN | 12 51 20<br>12 51 45<br>12 51 49<br>12 54 40 | 1.0          |             |             | 38          |                |                     |
| 146 | "      | LE<br>FE                | 4 27 --<br>5 20 --                           |              |             |             |             |                | Sinusoidal L waves. |
| 147 | "      | LE<br>FE                | 20 53 --<br>21 17 --                         |              |             |             |             |                | Do.                 |
| 148 | "      | LE<br>FE                | 23 13 --<br>23 36 --                         |              |             |             |             |                | Do.                 |
| 149 | "      | PN<br>LN<br>MN<br>FN    | 4 08 50<br>4 09 07<br>4 09 18<br>4 16 09     | 1.7          |             |             |             |                |                     |

121

昭和二年四月小塚納



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ}02'3$   $\lambda=121^{\circ}30'8$   $h=8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum. Mass; EW. Comp.=16kg. NS. Comp.=55kg. \*

| T.     | $\epsilon$ . | r/T. | V.  |
|--------|--------------|------|-----|
| AN: 16 |              |      | 120 |
| AE: 30 |              |      | 20  |
| Az:    |              |      |     |

| No. | Date    | Phase                             | G. M. T.<br>Time<br>h m s                                            | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                                                |
|-----|---------|-----------------------------------|----------------------------------------------------------------------|--------------|-------------|-------------|-------------|----------------|-------------------------------------------------------------------------|
|     |         |                                   |                                                                      |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                                                         |
| 150 | July 24 | PN<br>LN<br>MN<br>FN              | 7 02 52<br>7 03 06<br>7 08 52<br>7 08 52                             | 1.0          |             | 56          |             |                |                                                                         |
| 151 | " 27    | eN<br>FN                          | 2 01 42<br>2 03 06                                                   |              |             |             |             |                |                                                                         |
| 152 | " "     | eN<br>FN                          | 10 55 52<br>11 15 --                                                 |              |             |             |             |                |                                                                         |
| 153 | " 31    | eN<br>FN                          | 1 23 42<br>1 26 12                                                   |              |             |             |             |                |                                                                         |
| 154 | Aug 4   | eN<br>FN                          | 10 45 55<br>10 47 22                                                 |              |             |             |             |                |                                                                         |
| 155 | " "     | eN<br>LN<br>MN<br>FN              | 11 48 02<br>11 48 46<br>11 48 00<br>11 53 40                         | 1.9          |             | 35          |             |                |                                                                         |
| 156 | " 5     | PN<br>LN<br>MN<br>FN              | 21 17 52<br>21 21 40<br>21 23 59<br>22 53 00                         | 7.2          |             | 94          |             |                | Strong earthquake in vicinity of city Sendai. Some damage was suffered. |
| 157 | " 10    | LE<br>FE                          | 2 45 --<br>3 18 --                                                   |              |             |             |             |                | Faint sinuoidal L waves.                                                |
| 158 | " "     | PNE<br>LN<br>LE<br>MN<br>MN<br>FN | 11 42 14<br>11 46 32<br>11 11 36<br>11 50 02<br>11 51 10<br>13 16 -- | 15.4<br>12.5 |             | 290<br>515  |             |                |                                                                         |
| 159 | " 11    | eN<br>LN<br>MN<br>F               | 18 29 --<br>18 29 29<br>18 29 33<br>18 32 19                         | 1.0          |             | 21          |             |                |                                                                         |
| 160 | " 12    | eNE<br>LN<br>LE<br>FNE            | 0 37 23<br>0 40 06<br>0 40 10<br>0 53 --                             |              |             |             |             |                |                                                                         |
| 161 | " "     | eE<br>FN                          | 10 48 00<br>11 09 --                                                 |              |             |             |             |                |                                                                         |
| 162 | " 13    | PN<br>L<br>FN                     | 11 21 31<br>8 21 44<br>8 24 44                                       |              |             |             |             |                |                                                                         |



No. 15

from August 16 to August 18 1927.

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ}02'.3$   $\lambda=121^{\circ}30'.8$   $h=8.0m$ . Underground; alluvial.

Instrument ; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.      |    | $\epsilon$ . | $r/T$ . | V.  |
|---------|----|--------------|---------|-----|
| $A_N$ : | 16 |              |         | 120 |
| $A_E$ : | 30 |              |         | 20  |
| $A_z$ : |    |              |         |     |

| No. | Date    | Phase | G. M. T.<br>Time<br>h m s | Period<br>s. | Amplitude      |                |                | $\Delta$<br>km | Remarks. |
|-----|---------|-------|---------------------------|--------------|----------------|----------------|----------------|----------------|----------|
|     |         |       |                           |              | $A_E$<br>$\mu$ | $A_N$<br>$\mu$ | $A_z$<br>$\mu$ |                |          |
| 163 | Aug. 16 | PN    | 11 00 41                  | 1.0          |                |                |                |                |          |
|     |         | LN    | 11 00 49                  |              |                |                |                |                |          |
|     |         | MN    | 11 00 51                  |              |                |                |                |                |          |
|     |         | FN    | 11 02 42                  |              |                |                | 23             |                |          |
| 164 | " 17    | PN    | 1 47 47                   | 0.7          |                |                |                |                |          |
|     |         | LN    | 1 47 58                   |              |                |                |                |                |          |
|     |         | MN    | 1 48 00                   |              |                |                | 63             |                |          |
|     |         | FN    | 1 51 00                   |              |                |                |                |                |          |
| 165 | " "     |       |                           |              |                |                |                |                |          |
| 165 | " "     | eN    | 7 24 40                   | 1.0          |                |                |                |                |          |
|     |         | FN    | 7 36 10                   |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
| 166 | " "     | PN    | 7 29 28                   | 1.0          |                |                |                |                |          |
|     |         | LN    | 7 29 53                   |              |                |                |                |                |          |
|     |         | MN    | 7 30 06                   |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
| 167 | " "     | eN    | 7 36 20                   | 1.2          |                |                |                |                |          |
|     |         | FN    | 7 38 03                   |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
| 168 | " "     | PN    | 7 40 04                   | 1.2          |                |                |                |                |          |
|     |         | LN    | 7 40 10                   |              |                |                |                |                |          |
|     |         | MN    | 7 40 14                   |              |                |                | 48             |                |          |
|     |         | FN    | 7 43 24                   |              |                |                |                |                |          |
| 169 | " "     | eN    | 7 48 20                   | 0.7          |                |                |                |                |          |
|     |         | FN    | 7 51 11                   |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
| 170 | " "     | eN    | 8 04 25                   | 0.7          |                |                |                |                |          |
|     |         | FN    | 8 05 56                   |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
| 171 | " "     | eN    | 9 23 42                   | 0.7          |                |                |                |                |          |
|     |         | LN    | 9 23 47                   |              |                |                |                |                |          |
|     |         | MN    | 9 23 52                   |              |                |                |                |                |          |
|     |         |       |                           |              |                |                | 23             |                |          |
| 172 | " "     | eN    | 13 17 37                  | 0.7          |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
| 173 | " "     | eN    | 13 19 12                  | 0.7          |                |                |                |                |          |
|     |         | FN    | 13 20 17                  |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
| 174 | " "     | eN    | 14 37 19                  | 0.7          |                |                |                |                |          |
|     |         | FN    | 14 38 36                  |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
| 175 | " 18    | PNE   | 19 32 38                  | 16.3         |                |                |                |                |          |
|     |         | SN    | 19 39 35                  |              |                |                |                |                |          |
|     |         | LN    | 19 43 22                  |              |                |                |                |                |          |
|     |         | ME    | 19 43 28                  |              |                |                |                |                |          |
|     |         | MN    | 19 44 10                  | 13.4         |                |                |                |                |          |
|     |         | MN    | 19 45 40                  |              |                |                |                |                |          |
|     |         | FN    | 20 50 --                  |              |                |                |                |                |          |
|     |         |       |                           |              |                |                |                |                |          |
|     |         |       |                           | 16.3         | 510            |                |                |                |          |
|     |         |       |                           | 13.4         | 299            |                |                |                |          |
|     |         |       |                           | 14.4         | 715            |                |                |                |          |

F lost in following quake.



## TAIHOKEU, FORMOSA, JAPAN.

15

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25.02' 3$   $\lambda = 121^{\circ} 30' 8$   $h = 8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |    | $\epsilon$ . | r/T. | V.  |
|------|----|--------------|------|-----|
| AN : | 16 |              |      | 120 |
| AE : | 30 |              |      | 20  |
| Az : |    |              |      |     |

| No. | Date    | Phase | G. M. T.<br>Time<br>h m s | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                                                                                                                                             |
|-----|---------|-------|---------------------------|--------------|-------------|-------------|-------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |         |       |                           |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                                                                                                                                                      |
| 176 | Aug. 20 | PE    | 22 41 57                  |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FE    | 23 22 08                  |              |             |             |             |                |                                                                                                                                                                      |
| 177 | " 21    | PE    | 0 26 --                   |              |             |             |             |                | Very faint records may not<br>quake.                                                                                                                                 |
|     |         | FE    | 2 07 --                   |              |             |             |             |                |                                                                                                                                                                      |
| 178 | " 22    | eN    | 4 23 14                   |              |             |             |             |                | Sinusoidal waves.                                                                                                                                                    |
|     |         | FN    | 4 25 03                   |              |             |             |             |                |                                                                                                                                                                      |
| 179 | " 23    | eE    | 6 33 54                   |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FE    | 7 37 --                   |              |             |             |             |                |                                                                                                                                                                      |
| 180 | "       | eN    | 20 00 41                  |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FN    | 20 02 40                  |              |             |             |             |                |                                                                                                                                                                      |
| 181 | " 24    | eE    | 9 02 28                   |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FE    | 9 47 --                   |              |             |             |             |                |                                                                                                                                                                      |
| 182 | "       | eN    | 16 04 55                  |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FN    | 16 07 37                  |              |             |             |             |                |                                                                                                                                                                      |
| 183 | "       | PN    | 18 09 32                  |              |             |             |             |                |                                                                                                                                                                      |
|     |         | EN    | 18 10 01                  |              |             |             |             |                |                                                                                                                                                                      |
|     |         | EE    | 18 10 07                  |              |             |             |             |                |                                                                                                                                                                      |
|     |         | ME    | 18 10 24                  |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FE    | 18 04 --                  | 1.4          | 1920        |             |             |                | N-S component was thrown out<br>of paper. In southern Formosa<br>strong quake was felt, several<br>men were killed and some injured<br>and many damage was reported. |
| 184 | "       | eN    | 20 04 36                  |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FN    | 20 06 49                  |              |             |             |             |                |                                                                                                                                                                      |
| 185 | " 25    | PN    | 3 30 20                   |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FN    | 3 33 55                   |              |             |             |             |                |                                                                                                                                                                      |
| 186 | "       | PN    | 3 37 26                   |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FN    | 3 39 52                   |              |             |             |             |                |                                                                                                                                                                      |
| 187 | "       | PN    | 4 48 49                   |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FN    | 4 50 46                   |              |             |             |             |                |                                                                                                                                                                      |
| 188 | "       | PN    | 8 20 42                   |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FN    | 8 22 54                   |              |             |             |             |                |                                                                                                                                                                      |
| 189 | "       | eN    | 14 06 10                  |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FN    | 14 88 50                  |              |             |             |             |                |                                                                                                                                                                      |
| 190 | "       | eN    | 16 57 35                  |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FN    | 17 00 12                  |              |             |             |             |                |                                                                                                                                                                      |
| 191 | "       | eN    | 17 04 36                  |              |             |             |             |                |                                                                                                                                                                      |
|     |         | FN    | 17 05 20                  |              |             |             |             |                |                                                                                                                                                                      |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25.02'3$   $\lambda=121^{\circ}30'8$   $h=8.0m$ . Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.      | $\varepsilon$ . | r/T. | V.  |
|---------|-----------------|------|-----|
| AN : 16 |                 |      | 120 |
| AE : 30 |                 |      | 20  |
| Az :    |                 |      |     |

| No. | Date    | Phase                | G. M. T.<br>Time<br>h m s                    | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                    |
|-----|---------|----------------------|----------------------------------------------|--------------|-------------|-------------|-------------|----------------|-----------------------------|
|     |         |                      |                                              |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                             |
| 192 | Aug. 25 | PN                   | 22 45 25                                     | 1.4          |             | 260         |             |                |                             |
|     |         | SN                   | 22 45 52                                     |              |             |             |             |                |                             |
|     |         | LN                   | 22 45 59                                     |              |             |             |             |                |                             |
|     |         | MN                   | 22 46 06                                     |              |             |             |             |                |                             |
|     |         | PN                   | 22 57 05                                     |              |             |             |             |                |                             |
| 193 | "       | eN<br>FN             | 23 08 43<br>23 13 20                         | 1.4          |             |             |             |                |                             |
| 194 | "       | eN<br>FN             | 7 49 38<br>7 51 16                           |              |             |             |             |                |                             |
| 195 | "       | eN<br>FN             | 12 38 41<br>12 43 44                         |              |             |             |             |                |                             |
| 196 | "       | eE<br>FN             | 5 49 00<br>6 14 --                           |              |             |             |             |                |                             |
| 197 | "       | eE<br>FE             | 7 55 00<br>8 24 --                           |              |             |             |             |                |                             |
| 198 | Sept. 2 | PN<br>FN             | 2 14 31<br>2 14 38                           | 1.4          |             | 319         |             |                | Slight sinusoidal waves.    |
|     |         | SN                   | 2 14 54                                      |              |             |             |             |                |                             |
|     |         | LN                   | 2 15 02                                      |              |             |             |             |                |                             |
|     |         | MN                   | 2 15 15                                      |              |             |             |             |                |                             |
|     |         | FN                   | 2 23 40                                      |              |             |             |             |                |                             |
| 199 | "       | eN<br>FN             | 15 37 35<br>15 39 15                         | 1.0          |             |             | 41          |                | Heavy micros.               |
| 200 | "       | PN<br>LN<br>MN<br>FN | 17 49 12<br>17 49 29<br>17 49 32<br>17 51 52 |              |             |             |             |                |                             |
| 201 | "       | eE<br>FE             | 10 47 --<br>11 22 --                         |              |             |             |             |                |                             |
| 202 | "       | eN<br>FN             | 6 03 00<br>6 04 15                           |              |             |             |             |                |                             |
| 203 | "       | eN<br>FN             | 13 13 03<br>13 13 34                         |              |             |             |             |                |                             |
| 204 | "       | eN<br>LN<br>FN       | 15 26 00<br>15 26 10<br>15 27 23             |              |             |             |             |                | Very faint irregular waves. |
| 205 | "       | eN<br>LN<br>FN       | 22 39 09<br>22 39 17<br>22 40 45             |              |             |             |             |                |                             |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $g=25.02'.3$   $\lambda=121^{\circ}30'.8$   $h=8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| No. | Date     | Phase                | G. M. T.<br>h m s                            | Period<br>s. | Amplitude   |              |             | $\Delta$<br>km | Remarks.                                                               |
|-----|----------|----------------------|----------------------------------------------|--------------|-------------|--------------|-------------|----------------|------------------------------------------------------------------------|
|     |          |                      |                                              |              | AE<br>$\mu$ | AN<br>$\mu$  | Az<br>$\mu$ |                |                                                                        |
|     |          |                      |                                              |              | T.          | $\epsilon$ . | r/T.        | V.             |                                                                        |
|     |          |                      |                                              |              | AN : 16     |              |             | 120            |                                                                        |
|     |          |                      |                                              |              | AE : 30     |              |             | 20             |                                                                        |
|     |          |                      |                                              |              | Az :        |              |             |                |                                                                        |
| 206 | Sept. 11 | LN<br>FN             | 22 53 --<br>23 47 --                         |              |             |              |             |                |                                                                        |
| 207 | " 12     | PN<br>LN<br>MN<br>FN | 3 20 16<br>3 20 24<br>3 20 26<br>3 22 53     | ?            |             | 133          |             |                | Felt in northern part of Formosa.                                      |
| 208 | "        | PN<br>LN<br>MN<br>FN | 23 37 13<br>23 37 31<br>23 37 46<br>23 43 04 | 1.9          |             | 154          |             |                | Felt at Taihoku and recorded by seismographs of several observatories. |
| 209 | " 16     | PN<br>LN<br>FN       | 6 47 32<br>6 47 47<br>6 49 22                |              |             |              |             |                | Felt at Karenko eastern coast.                                         |
| 210 | " 20     | eN<br>FN             | 21 12 45<br>21 14 42                         |              |             |              |             |                | Faint record.                                                          |
| 211 | 2 23     | PE<br>LE<br>FE       | 14 01 15<br>14 13 10<br>14 36 --             |              |             |              |             |                | Felt in southern districts of Formosa.                                 |
| 212 | "        | PE<br>LE<br>FE       | 22 30 05<br>22 30 28<br>22 32 18             |              |             |              |             |                |                                                                        |
| 213 | " 25     | eN<br>LN<br>FN       | 3 47 46<br>3 48 11<br>3 49 19                |              |             |              |             |                |                                                                        |
| 214 | "        | eN<br>LN<br>FN       | 6 14 15<br>6 14 41<br>6 15 42                |              |             |              |             |                |                                                                        |
| 215 | " 28     | eE<br>FE             | 1 57 55<br>1 59 37                           |              |             |              |             |                |                                                                        |
| 216 | Oct. 2   | PN<br>SN<br>LN<br>FN | 20 43 43<br>20 43 56<br>20 44 13<br>20 49 49 |              |             |              |             |                |                                                                        |
| 217 | " 3      | eE<br>FE             | 1 32 25<br>1 35 22                           |              |             |              |             |                |                                                                        |
| 218 | "        | eN<br>FN             | 13 16 02<br>13 20 48                         |              |             |              |             |                |                                                                        |
| 219 | "        | eN<br>FN             | 14 31 14<br>14 37 42                         |              |             |              |             |                |                                                                        |
| 220 | "        | eN<br>FN             | 14 58 26<br>15 02 52                         |              |             |              |             |                |                                                                        |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25.02'.3$   $\lambda = 121^{\circ}30'8$   $h = 8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.   |  | $\epsilon$ . |  | $r/T$ . |  | V.  |  |
|------|--|--------------|--|---------|--|-----|--|
| AN : |  | 16           |  |         |  | 120 |  |
| AE : |  | 30           |  |         |  | 20  |  |
| Az : |  |              |  |         |  |     |  |

| No. | Date   | Phase    | G. M. T. |     | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                                          |
|-----|--------|----------|----------|-----|--------------|-------------|-------------|-------------|----------------|-------------------------------------------------------------------|
|     |        |          | h        | m s |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                                                   |
| 221 | Oct. 3 | eN<br>FN | 15 38 15 |     |              |             |             |             |                |                                                                   |
| 222 | "      | eN<br>FN | 15 40 52 |     |              |             |             |             |                |                                                                   |
| 223 | "      | eN<br>FN | 16 01 33 |     |              |             |             |             |                |                                                                   |
| 224 | "      | eN<br>FN | 16 06 36 |     |              |             |             |             |                |                                                                   |
| 225 | "      | eN<br>FN | 17 26 35 |     |              |             |             |             |                |                                                                   |
| 226 | "      | eN<br>FN | 17 36 15 |     |              |             |             |             |                |                                                                   |
| 227 | "      | eN<br>FN | 20 10 46 |     |              |             |             |             |                |                                                                   |
| 228 | "      | eN<br>FN | 20 16 42 |     |              |             |             |             |                |                                                                   |
| 229 | "      | eN<br>FN | 2 14 50  |     | 3.8          |             | 69          |             |                | Recorded by seismographs at Taihoku and other four observatories. |
| 230 | "      | eN<br>FN | 2 15 58  |     |              |             |             |             |                |                                                                   |
| 231 | "      | eN<br>FN | 2 24 22  |     |              |             |             |             |                |                                                                   |
| 232 | "      | eN<br>FN | 2 29 33  |     |              |             |             |             |                |                                                                   |
| 233 | "      | eN<br>FN | 2 34 02  |     |              |             |             |             |                |                                                                   |
| 234 | "      | eN<br>FN | 11 23 16 |     |              |             |             |             |                |                                                                   |
| 235 | "      | eN<br>FN | 11 28 23 |     |              |             |             |             |                |                                                                   |
| 236 | "      | eN<br>FN | 17 32 57 |     |              |             |             |             |                |                                                                   |
| 237 | "      | eN<br>FN | 17 37 34 |     |              |             |             |             |                |                                                                   |
| 238 | "      | eN<br>FN | 17 39 25 |     |              |             |             |             |                | Recorded by seismographs of Taihoku and four observatories        |
| 239 | "      | eN<br>FN | 17 48 21 |     |              |             |             |             |                |                                                                   |
| 240 | "      | eN<br>FN | 1 26 13  |     |              |             |             |             |                |                                                                   |
| 241 | "      | eN<br>FN | 1 29 20  |     |              |             |             |             |                |                                                                   |
| 242 | "      | eN<br>FN | 2 01 54  |     |              |             |             |             |                |                                                                   |
| 243 | "      | eN<br>FN | 2 07 48  |     |              |             |             |             |                |                                                                   |
| 244 | "      | eN<br>FN | 14 15 56 |     |              |             |             |             |                |                                                                   |
| 245 | "      | eN<br>FN | 14 16 20 |     |              |             |             |             |                |                                                                   |
| 246 | "      | eN<br>FN | 14 21 17 |     |              |             |             |             |                |                                                                   |
| 247 | "      | eN<br>FN | 16 37 14 |     |              |             |             |             |                |                                                                   |
| 248 | "      | eN<br>FN | 16 37 42 |     |              |             |             |             |                |                                                                   |
| 249 | "      | eN<br>FN | 16 48 14 |     |              |             |             |             |                |                                                                   |
| 250 | "      | eN<br>FN | 3 55 03  |     |              |             |             |             |                |                                                                   |
| 251 | "      | eN<br>FN | 3 59 28  |     |              |             |             |             |                |                                                                   |
| 252 | "      | eN<br>FN | 13 22 03 |     |              |             |             |             |                |                                                                   |
| 253 | "      | eN<br>FN | 13 31 28 |     |              |             |             |             |                |                                                                   |
| 254 | "      | eN<br>FN | 4 58 09  |     |              |             |             |             |                |                                                                   |
| 255 | "      | eN<br>FN | 5 00 29  |     |              |             |             |             |                |                                                                   |
| 256 | "      | eN<br>FN | 6 04 30  |     |              |             |             |             |                |                                                                   |
| 257 | "      | eN<br>FN | 6 07 25  |     |              |             |             |             |                |                                                                   |

Felt weakly in middle and southern districts of Formosa.  
Epicenter: N23.4 E120.9 presumably.



## TAIHOKE, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ}02'3$   $\lambda = 121^{\circ}30'8$   $h = 8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.      | $\epsilon$ . | r/T. | V.  |
|---------|--------------|------|-----|
| AN : 16 |              |      | 120 |
| AE : 30 |              |      | 20  |
| Az :    |              |      |     |

| No. | Date.  | Phase    | G. M. T.<br>Time<br>h m s | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks. |
|-----|--------|----------|---------------------------|--------------|-------------|-------------|-------------|----------------|----------|
|     |        |          |                           |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |          |
| 238 | Oct. 7 | eN<br>FN | 11 13 32<br>11 15 45      |              |             |             |             |                |          |
| 239 | "      | eN<br>FN | 12 19 05<br>12 23 51      |              |             |             |             |                |          |
| 240 | "      | eN<br>FN | 13 32 54<br>13 37 41      |              |             |             |             |                |          |
| 241 | "      | eN<br>FN | 17 19 51<br>17 22 03      |              |             |             |             |                |          |
| 242 | "      | eN<br>FN | 19 03 55<br>19 11 20      |              |             |             |             |                |          |
| 243 | "      | eN<br>FN | 20 31 33<br>20 36 02      |              |             |             |             |                |          |
| 244 | "      | eN<br>FN | 20 56 38<br>21 04 01      |              |             |             |             |                |          |
| 245 | "      | eN<br>FN | 22 28 36<br>22 33 26      |              |             |             |             |                |          |
| 246 | " 8    | eN<br>FN | 1 06 22<br>1 10 50        |              |             |             |             |                |          |
| 247 | "      | eN<br>FN | 1 58 18<br>2 07 25        |              |             |             |             |                |          |
| 248 | "      | eN<br>FN | 5 13 04<br>5 18 52        |              |             |             |             |                |          |
| 249 | "      | eN<br>FN | 10 34 09<br>10 40 34      |              |             |             |             |                |          |
| 250 | "      | eE<br>FE | 13 47 49<br>13 54 50      |              |             |             |             |                |          |
| 251 | "      | eE<br>FE | 16 30 21<br>16 31 32      |              |             |             |             |                |          |
| 252 | "      | eE<br>FE | 17 35 03<br>17 38 55      |              |             |             |             |                |          |
| 253 | "      | eE       | 22 22 31                  |              |             |             |             |                |          |
| 254 | "      | eE<br>FE | 22 28 30<br>22 37 07      |              |             |             |             |                |          |
| 255 | "      | eE<br>FE | 23 13 42<br>23 30 05      |              |             |             |             |                |          |
| 256 | " 9    | eE<br>FE | 2 37 22<br>2 45 08        |              |             |             |             |                |          |

F lost in following quake.



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25.02'3$   $\lambda=121^{\circ}30'8$   $h=8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.   |    | $\epsilon$ . | r/T. | V.  |
|------|----|--------------|------|-----|
| AN : | 16 |              |      | 120 |
| AE : | 30 |              |      | 20  |
| Az : |    |              |      |     |

| No. | Date   | Phase    | G. M. T.<br>Time<br>h m s | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km                                                           | Remarks. |
|-----|--------|----------|---------------------------|--------------|-------------|-------------|-------------|--------------------------------------------------------------------------|----------|
|     |        |          |                           |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                                                                          |          |
| 257 | Oct. 9 | eE       | 3 35 45                   |              |             |             |             | F lost in following quake                                                |          |
| 258 | " "    | eE<br>FE | 3 40 05<br>3 49 33        |              |             |             |             |                                                                          |          |
| 259 | " "    | eE<br>FE | 4 47 29<br>5 04 12        |              |             |             |             |                                                                          |          |
| 260 | " "    | eE<br>FE | 5 16 02<br>5 27 08        |              |             |             |             |                                                                          |          |
| 261 | " "    | eE<br>FE | 16 04 13<br>16 08 34      |              |             |             |             |                                                                          |          |
| 262 | " "    | eE<br>FE | 23 35 02<br>23 38 58      |              |             |             |             |                                                                          |          |
| 263 | " 10   | eE<br>FE | 4 36 08<br>4 39 52        |              |             |             |             |                                                                          |          |
| 264 | " "    | eE<br>FE | 4 45 56<br>4 49 07        |              |             |             |             |                                                                          |          |
| 265 | " "    | eE<br>FE | 5 57 10<br>6 00 52        |              |             |             |             |                                                                          |          |
| 266 | " "    | eE<br>FE | 10 41 50<br>10 43 29      |              |             |             |             |                                                                          |          |
| 267 | " "    | eE<br>FE | 11 49 07<br>11 56 24      |              |             |             |             |                                                                          |          |
| 268 | " "    | eE<br>FE | 17 49 55<br>18 04 27      |              |             |             |             |                                                                          |          |
| 269 | " 11   | eE       | 3 02 52                   |              |             |             |             | F lost in following quake                                                |          |
| 270 | " "    | eE<br>FE | 3 06 11<br>3 21 58        |              |             |             |             |                                                                          |          |
| 271 | " "    | eE<br>FE | 4 24 24<br>4 49 00        |              |             |             |             | Recorded by seismographs at<br>Taihoku and other four obser-<br>vatories |          |
| 272 | " "    | eE<br>FE | 13 45 08<br>13 48 44      |              |             |             |             |                                                                          |          |
| 273 | " "    | eE<br>FE | 15 11 12<br>15 12 20      |              |             |             |             |                                                                          |          |
| 274 | " 12   | eE<br>FE | 0 17 35<br>1 33 --        |              |             |             |             |                                                                          |          |
| 275 | " "    | eE<br>FE | 2 12 44<br>2 50 --        |              |             |             |             |                                                                          |          |



## TAIHO KU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\phi = 25.02' .3$   $\lambda = 121^{\circ}30' .8$   $h = 8.0m$ . Underground; alluvial.  
Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.      | $\epsilon$ . | r/T. | V.  |
|---------|--------------|------|-----|
| AN : 16 |              |      | 120 |
| AE : 30 |              |      | 20  |
| Az :    |              |      |     |

| No. | Date    | Phase                 | G. M. T.<br>Time<br>h m s                | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                 |
|-----|---------|-----------------------|------------------------------------------|--------------|-------------|-------------|-------------|----------------|------------------------------------------|
|     |         |                       |                                          |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                          |
| 276 | Oct. 12 | eN<br>FN              | 6 28 28<br>6 51 --                       |              |             |             |             |                |                                          |
| 277 | " "     | eE<br>FE              | 7 33 52<br>7 39 46                       |              |             |             |             |                |                                          |
| 278 | " "     | eE<br>FE              | 7 56 13<br>8 55 --                       |              |             |             |             |                |                                          |
| 279 | " "     | eE<br>FE              | 23 45 54<br>1 07 --                      |              |             |             |             |                |                                          |
| 280 | " "     | eE<br>FE              | 1 12 10<br>2 23 --                       |              |             |             |             |                |                                          |
| 281 | " 15    | eN<br>LN<br>MN<br>FN  | 6 26 36<br>6 27 10<br>6 27 51<br>6 36 05 | 2.9          |             |             |             | 80             |                                          |
| 282 | " 18    | eN<br>FN              | 12 25 15<br>12 27 54                     |              |             |             |             |                |                                          |
| 283 | " "     | eN<br>FN              | 13 46 07<br>13 49 24                     |              |             |             |             |                |                                          |
| 284 | " 19    | eN<br>FN              | 17 03 01<br>17 05 04                     |              |             |             |             |                |                                          |
| 285 | " 24    | eN<br>FN              | 16 39 24<br>17 16 --                     |              |             |             |             |                | Faint sinusoidal waves.                  |
| 286 | " "     | eN<br>FN              | 19 15 43<br>19 33 08                     |              |             |             |             |                | Very faint sinusoidal waves              |
| 287 | " "     | eN<br>FN              | 19 47 03<br>19 49 36                     |              |             |             |             |                | Local shock.                             |
| 288 | Nov. 2  | eE<br>FN              | 2 11 52<br>2 13 36                       |              |             |             |             |                |                                          |
| 289 | " "     | eE<br>FE              | 22 58 08<br>23 18 --                     |              |             |             |             |                |                                          |
| 290 | " 4     | eN<br>LN<br>FN        | 19 40 14<br>19 40 29<br>19 42 10         |              |             |             |             |                |                                          |
| 291 | " 5     | PHE<br>LE<br>ME<br>FE | 6 38 51<br>6 39 27<br>6 39 29<br>6 57 00 | 1.9          |             |             |             | 375            | Felt at Kairenko, east coast of Formosa. |
| 292 | " 7     | eN                    | 16 28 26                                 |              |             |             |             |                | F lost in following quake.               |



## TAIHOKEU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ}02'3$   $\lambda=121^{\circ}30'8$   $h=8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

T.  $\epsilon$ . r/T. V.

|      |    |     |
|------|----|-----|
| AN : | 16 | 120 |
| AE : | 30 | 20  |
| Az : |    |     |

| No. | Date   | Phase                | G. M. T.<br>Time<br>h. m s               | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks. |
|-----|--------|----------------------|------------------------------------------|--------------|-------------|-------------|-------------|----------------|----------|
|     |        |                      |                                          |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |          |
| 293 | Nov. 7 | eN<br>FN             | 16 32 10<br>16 35 40                     |              |             |             |             |                |          |
| 294 | " 8    | eN<br>LN<br>FN       | 19 45 03<br>19 45 25<br>19 47 43         |              |             |             |             |                |          |
| 295 | " 10   | eN<br>FN             | 18 32 58<br>18 35 37                     |              |             |             |             |                |          |
| 296 | " 13   | eN<br>FN             | 19 56 42<br>19 59 04                     |              |             |             |             |                |          |
| 297 | " 14   | eN<br>SN<br>LN<br>FN | 0 36 49<br>0 39 29<br>0 41 57<br>1 08 -- |              |             |             |             |                |          |
| 298 | " "    | eN<br>LN<br>FN       | 5 20 15<br>5 23 50<br>5 49 --            |              |             |             |             |                |          |
| 299 | " 15   | eN<br>FN             | 21 51 37<br>21 53 58                     |              |             |             |             |                |          |
| 300 | " 16   | PN<br>LN<br>FN       | 21 14 41<br>21 18 18<br>22 18 --         |              |             |             |             |                |          |
| 301 | " 18   | PE<br>LE<br>FE       | 3 28 42<br>3 31 35<br>4 19 --            |              |             |             |             |                |          |
| 302 | " 19   | eN<br>FN             | 19 00 42<br>19 02 27                     |              |             |             |             |                |          |
| 303 | " 21   | eE<br>FE             | 6 36 07<br>6 37 37                       |              |             |             |             |                |          |
| 304 | " 24   | eN<br>FN             | 2 19 07<br>2 21 00                       |              |             |             |             |                |          |
| 305 | " "    | eN<br>FN             | 15 54 20<br>15 55 40                     |              |             |             |             |                |          |
| 306 | " "    | eN<br>FN             | 16 07 34<br>16 10 15                     |              |             |             |             |                |          |
| 307 | " 27   | eN<br>FN             | 23 12 12<br>23 13 57                     |              |             |             |             |                |          |
| 308 | " 29   | eN<br>LN<br>FN       | 15 34 25<br>15 34 35<br>15 35 50         |              |             |             |             |                |          |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25.02'.3$   $\lambda=121^{\circ}30'.8$   $h=8.0m$ . Underground; alluvial.  
 Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.
T.  $\epsilon$ . r/T. V.
 AN : 16  
 AE : 30  
 Az :

| No. | Date    | Phase | G. M. T. |      | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                   |
|-----|---------|-------|----------|------|--------------|-------------|-------------|-------------|----------------|--------------------------------------------|
|     |         |       |          |      |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                            |
| 309 | Nov. 31 | eN    | 11 56 01 |      |              |             |             |             |                |                                            |
|     |         | LN    | 11 56 26 |      |              |             |             |             |                |                                            |
|     |         | MN    | 11 56 31 | 0.5  |              |             | 35          |             |                | Felt at Karenko, east coast<br>of Formosa. |
|     |         | FN    | 11 59 50 |      |              |             |             |             |                |                                            |
| 310 | Dec. 1  | eE    | 4 43 13  |      |              |             |             |             |                |                                            |
|     |         | LE    | 4 48 32  |      |              |             |             |             |                |                                            |
|     |         | FE    | 5 19 00  |      |              |             |             |             |                |                                            |
| 311 | " 9     | eN    | 21 55 12 |      |              |             |             |             |                |                                            |
|     |         | FN    | 21 57 16 |      |              |             |             |             |                |                                            |
| 312 | " 11    | eN    | 19 13 04 |      |              |             |             |             |                |                                            |
|     |         | FN    | 19 15 46 |      |              |             |             |             |                |                                            |
| 313 | " 20    | eN    | 2 35 16  |      |              |             |             |             |                |                                            |
|     |         | LN    | 2 35 32  |      |              |             |             |             |                |                                            |
|     |         | FN    | 2 37 00  |      |              |             |             |             |                |                                            |
| 314 | " 21    | eN    | 2 50 27  |      |              |             |             |             |                |                                            |
|     |         | LN    | 2 50 49  |      |              |             |             |             |                |                                            |
|     |         | FN    | 2 52 26  |      |              |             |             |             |                |                                            |
| 315 | " 24    | eN    | 18 41 29 |      |              |             |             |             |                |                                            |
|     |         | LN    | 18 42 45 |      |              |             |             |             |                |                                            |
|     |         | FN    | 18 43 11 |      |              |             |             |             |                |                                            |
| 316 | Dec. 25 | eE    | 3 36 58  | 1.4  |              |             | 36          |             |                |                                            |
|     |         | eN    | 3 36 58  |      |              |             |             |             |                |                                            |
|     |         | LN    | 3 36 58  |      |              |             |             |             |                |                                            |
|     |         | MN    | 3 36 58  |      |              |             |             |             |                |                                            |
|     |         | FN    | 3 39 18  |      |              |             |             |             |                |                                            |
| 317 | " 28    | PE    | 18 34 51 |      |              |             |             |             |                |                                            |
|     |         | SE    | 18 40 00 |      |              |             |             |             |                |                                            |
|     |         | LE    | 18 45 09 |      |              |             |             |             |                |                                            |
|     |         | ME    | 18 48 09 | 18.2 |              |             | 1.850       |             |                |                                            |
|     |         | FE    | 19 27 54 |      |              |             |             |             |                |                                            |
| 318 | " 31    | eE    | 0 37 25  |      |              |             |             |             |                |                                            |
|     |         | FE    | 0 39 36  |      |              |             |             |             |                |                                            |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25^{\circ}02'30''$   $\lambda = 121^{\circ}30'8''$   $h = 8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

T.  $\epsilon$ . r/T. V.

|     |    |     |
|-----|----|-----|
| AN: | 16 | 120 |
| AE: | 30 | 20  |
| Az: |    |     |

| No. | Date  | Phase | G. M. T.<br>h m s | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                                                                                                                                            |
|-----|-------|-------|-------------------|--------------|-------------|-------------|-------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |       |       |                   |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                                                                                                                                                     |
| 1   | Jan 4 | eE    | 21 32 33          |              |             |             |             |                |                                                                                                                                                                     |
|     |       | LE    | 21 43 30          |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FE    | 22 50 --          |              |             |             |             |                |                                                                                                                                                                     |
| 2   | " 13  | PN    | 2 17 13           |              |             |             |             |                |                                                                                                                                                                     |
|     |       | LN    | 2 17 25           |              |             |             |             |                |                                                                                                                                                                     |
|     |       | MN    | 2 17 26           |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FN    | 2 18 38           | 0.6          |             | 32          |             |                |                                                                                                                                                                     |
| 3   | " 20  | PNE   | 6 47 35           |              |             |             |             |                |                                                                                                                                                                     |
|     |       | LNE   | 6 47 49           |              |             |             |             |                |                                                                                                                                                                     |
|     |       | ME    | 6 47 51           | 1.2          | 415         |             |             |                |                                                                                                                                                                     |
|     |       | FE    | 6 56 29           |              |             |             |             |                |                                                                                                                                                                     |
| 4   | " 22  | eN    | 11 41 57          |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FN    | 11 44 14          |              |             |             |             |                |                                                                                                                                                                     |
| 5   | 23    | eN    | 7 53 48           |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FN    | 7 57 03           |              |             |             |             |                |                                                                                                                                                                     |
| 6   | "     | eN    | 18 15 42          |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FN    | 18 17 42          |              |             |             |             |                |                                                                                                                                                                     |
| 7   | " 27  | PNE   | 22 23 27          |              |             |             |             |                |                                                                                                                                                                     |
|     |       | LE    | 22 24 03          |              |             |             |             |                |                                                                                                                                                                     |
|     |       | ME    | 22 24 04          | 1.2          | 680         |             |             |                | An earthquake of the degree VII R.F. was felt in the east coast of Formosa, Taitoo districts, but no damage caused. Afterward many aftershocks were felt at Taitoo. |
|     |       | FE    | 22 40 00          |              |             |             |             |                |                                                                                                                                                                     |
| 8   | "     | PN    | 25 45 53          |              |             |             |             |                |                                                                                                                                                                     |
|     |       | LN    | 25 46 29          |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FN    | 25 57 --          |              |             |             |             |                |                                                                                                                                                                     |
| 9   | " 28  | eN    | 4 37 31           |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FN    | 4 39 55           |              |             |             |             |                |                                                                                                                                                                     |
| 10  | "     | eN    | 6 07 04           |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FN    | 6 09 36           |              |             |             |             |                |                                                                                                                                                                     |
| 11  | "     | eN    | 15 28 56          |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FN    | 15 30 09          |              |             |             |             |                |                                                                                                                                                                     |
| 12  | " 30  | eN    | 17 32 23          |              |             |             |             |                |                                                                                                                                                                     |
|     |       | LN    | 17 32 56          |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FN    | 17 35 19          |              |             |             |             |                |                                                                                                                                                                     |
| 13  | "     | eN    | 18 35 55          |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FN    | 18 37 39          |              |             |             |             |                |                                                                                                                                                                     |
| 14  | " 31  | eN    | 1 05 37           |              |             |             |             |                |                                                                                                                                                                     |
|     |       | LN    | 1 06 07           |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FN    | 1 09 04           |              |             |             |             |                |                                                                                                                                                                     |
| 15  | "     | eN    | 9 31 58           |              |             |             |             |                |                                                                                                                                                                     |
|     |       | FN    | 9 35 45           |              |             |             |             |                |                                                                                                                                                                     |



## TAIHOKEU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.  
 $\varphi=25.02'.3$   $\lambda=121^{\circ}30'.8$   $h=8.0m$ . Underground; alluvial.  
 Instrument ; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

T.  $\varepsilon$ .  $r/T$ . V.  
 AN : 16  
 AE : 30  
 Az :

| No. | Date   | Phase                      | G. M. T.<br>Time<br>h m s                           |      | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                  |
|-----|--------|----------------------------|-----------------------------------------------------|------|--------------|-------------|-------------|-------------|----------------|---------------------------|
|     |        |                            |                                                     |      |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                           |
| 16  | Feb. 3 | eN<br>FN                   | 6 30 29<br>6 32 08                                  |      |              |             |             |             |                |                           |
| 17  | "      | eN<br>FN                   | 12 39 23<br>12 41 19                                |      |              |             |             |             |                |                           |
| 18  | "      | eN<br>FN                   | 14 11 10<br>14 26 45                                |      |              |             |             |             |                |                           |
| 19  | "      | eN<br>FN                   | 23 20 54<br>23 22 09                                |      |              |             |             |             |                |                           |
| 20  | " 4    | eN<br>FN                   | 6 21 38<br>6 58 --                                  |      |              |             |             |             |                |                           |
| 21  | " 6    | eE<br>LE<br>FE             | 3 56 17<br>3 59 44<br>4 58 --                       |      |              |             |             |             |                |                           |
| 22  | "      | PE<br>LE<br>ME<br>FF       | 10 31 31<br>10 31 39<br>10 31 39<br>10 39 14        | 0.7  | 840          |             |             |             |                | Felt in Northern Formosa. |
| 23  | "      | PE<br>LE<br>FE             | 22 49 20<br>22 49 54<br>22 59 01                    |      |              |             |             |             |                |                           |
| 24  | " 7    | eE<br>SE<br>LE<br>ME<br>FE | 0 09 57<br>0 16 03<br>0 23 47<br>0 29 45<br>1 08 -- | 16.8 | 230          |             |             |             |                |                           |
| 25  | "      | eE<br>FE                   | 0 28 10<br>0 29 40                                  |      |              |             |             |             |                |                           |
| 26  | " 8    | eE<br>FE                   | 0 28 40<br>0 30 10                                  |      |              |             |             |             |                |                           |
| 27  | " 11   | PN<br>LN<br>MN<br>FN       | 18 41 03<br>18 41 12<br>18 41 14<br>18 44 16        | 1.0? | 109          |             |             |             |                | Felt in Northern Formosa. |
| 28  | " 13   | LE<br>FE                   | 5 43 35<br>5 53 46                                  |      |              |             |             |             |                |                           |
| 29  | " 14   | PN<br>LN<br>MN<br>FN       | 11 41 04<br>11 41 19<br>11 41 22<br>11 45 51        | 2.4  | 81           |             |             |             |                |                           |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ}02'.3$   $\lambda=121^{\circ}30'.8$   $h=8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.      | $\epsilon$ . | r/T. | V.  |
|---------|--------------|------|-----|
| AN : 16 |              |      | 120 |
| AE : 30 |              |      | 20  |
| Az :    |              |      |     |

| No. | Date    | Phase                       | G. M. T.<br>h m s                                        | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                         |
|-----|---------|-----------------------------|----------------------------------------------------------|--------------|-------------|-------------|-------------|----------------|--------------------------------------------------|
|     |         |                             |                                                          |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                                  |
| 30  | Feb. 15 | eN<br>FN                    | 2 56 32<br>2 58 01                                       |              |             |             |             |                |                                                  |
| 31  | " 17    | PN<br>LN<br>MN<br>FN        | 13 09 14<br>13 09 32<br>13 09 44<br>13 12 33             | 1.0          |             | 119         |             |                | Felt at Taitao, southeastern coast of Formosa.   |
| 32  | " 18    | eN<br>LN<br>FN              | 12 20 23<br>12 20 31<br>12 22 17                         |              |             |             |             |                | Felt at Karenko, eastern coast of Formosa.       |
| 33  | " 21    | eE<br>LE<br>ME              | 20 14 57<br>20 19 50<br>20 21 26                         | 16.3         | 395         |             |             |                | The time uncertain because of stoppage of clock. |
| 34  | " 23    | PN<br>LN<br>FN              | 9 20 40<br>9 21 23<br>9 24 52                            |              |             |             |             |                |                                                  |
| 35  | " 24    | PN<br>LN<br>MN<br>FN        | 4 20 30<br>4 20 47<br>4 21 14<br>4 22 46                 | 1.2          |             | 23          |             |                |                                                  |
| 36  | " 26    | LE<br>FE                    | 1 51 30<br>2 05 --                                       |              |             |             |             |                | Faint sinusoidal L waves.                        |
| 37  | " 29    | PNE<br>LN<br>MN<br>FN       | 16 29 39<br>16 29 43<br>16 29 44<br>16 32 06             | 1.0          |             | 43          |             |                |                                                  |
| 38  | Mar. 1  | PNE<br>SN<br>LN<br>MN<br>FN | 13 56 58<br>13 57 05<br>13 57 16<br>13 57 18<br>14 02 20 | 1.0          |             | 86          |             |                |                                                  |
| 39  | " 2     | eN<br>LN<br>FN              | 10 09 34<br>10 09 47<br>10 11 58                         |              |             |             |             |                |                                                  |
| 40  | " 4     | eE<br>FE                    | 17 54 08<br>17 56 04                                     |              |             |             |             |                |                                                  |
| 41  | " 5     | eN<br>LN<br>MN<br>FN        | 22 25 01<br>22 25 11<br>22 25 11<br>22 26 19             | 1.0          |             | 27          |             |                |                                                  |
| 42  | " "     | PN<br>LN<br>MN<br>FN        | 22 35 32<br>22 35 42<br>22 35 42<br>22 38 36             | 0.7          |             | 74          |             |                |                                                  |



昭和3年7月11日

地震 536

寄贈

No. 4-5

No. 4

from Mar. 7

Mar. 22

1934.

## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\varphi=25^{\circ}02'3$   $\lambda=121^{\circ}30'8$   $h=8.0m$ . Underground; alluvial.

Instrument ; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

T. e. r/T. V.

AN : 16

120

AE : 30

20

Az :

| No. | Date   | Phase | G. M. T.<br>h m s | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks. |
|-----|--------|-------|-------------------|--------------|-------------|-------------|-------------|----------------|----------|
|     |        |       |                   |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |          |
| 43  | Mar. 7 | PE    | 22 48 10          |              |             |             |             |                |          |
|     |        | SE    | 22 52 08          |              |             |             |             |                |          |
|     |        | LE    | 22 54 13          |              |             |             |             |                |          |
|     |        | ME    | 22 54 54          | 4.8          | 156         |             |             |                |          |
|     |        | ME    | 22 56 13          | 6.7          | 219         |             |             |                |          |
|     |        | ZM    | 22 56 24          |              |             |             |             |                |          |
|     |        | FE    | 23 08 --          |              |             |             |             |                |          |
| 44  | "      | PN    | 1 49 48           |              |             |             |             |                |          |
|     |        | LN    | 1 49 58           |              |             |             |             |                |          |
|     |        | MN    | 1 50 05           | 0.7          |             | 46          |             |                |          |
|     |        | FN    | 1 53 08           |              |             |             |             |                |          |
| 45  | "      | PE    | 18 13 26          |              |             |             |             |                |          |
|     |        | LE    | 18 19 46          |              |             |             |             |                |          |
|     |        | ME    | 18 20 04          | 6.8          | 157         |             |             |                |          |
|     |        | ME    | 18 34 23          | 14.3         | 163         |             |             |                |          |
|     |        | PE    | 19 50 --          |              |             |             |             |                |          |
| 46  | "      | eN    | 1 33 46           |              |             |             |             |                |          |
|     |        | FN    | 1 36 35           |              |             |             |             |                |          |
| 47  | "      | eE    | 7 15 50           |              |             |             |             |                |          |
|     |        | LN    | 7 16 06           |              |             |             |             |                |          |
|     |        | FN    | 7 18 37           |              |             |             |             |                |          |
| 48  | "      | PN    | 5 11 51           |              |             |             |             |                |          |
|     |        | SZ    | 5 20 52           |              |             |             |             |                |          |
|     |        | LNE   | 5 28 18           |              |             |             |             |                |          |
|     |        | F     | 6 56 --           |              |             |             |             |                |          |
| 49  | "      | PN    | 10 18 30          |              |             |             |             |                |          |
|     |        | LNE   | 10 18 43          |              |             |             |             |                |          |
|     |        | F     | 10 21 15          |              |             |             |             |                |          |
| 50  | "      | PE    | 23 21 08          |              |             |             |             |                |          |
|     |        | LE    | 23 21 15          |              |             |             |             |                |          |
|     |        | F     | 23 22 45          |              |             |             |             |                |          |
| 51  | "      | e     | 9 56 23           |              |             |             |             |                |          |
|     |        | F     | 9 57 25           |              |             |             |             |                |          |
| 52  | "      | P     | 10 58 23          |              |             |             |             |                |          |
|     |        | L     | 10 58 40          |              |             |             |             |                |          |
|     |        | F     | 11 01 30          |              |             |             |             |                |          |
| 53  | "      | PE    | 14 46 14          |              |             |             |             |                |          |
|     |        | F     | 14 47 03          |              |             |             |             |                |          |
| 54  | "      | eN    | 5 09 42           |              |             |             |             |                |          |
|     |        | FN    | 5 55 --           |              |             |             |             |                |          |
| 55  | "      | eE    | 9 24 31           |              |             |             |             |                |          |
|     |        | FE    | 9 25 27           |              |             |             |             |                |          |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

 $\phi = 25.02'3''$   $\lambda = 121^{\circ}30'8''$   $h = 8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp. = 16kg. NS. Comp. = 55kg.

| T.  |    | e. |  | r/T. |  | V. |     |
|-----|----|----|--|------|--|----|-----|
| AN: | 16 |    |  |      |  |    | 120 |
| AE: | 30 |    |  |      |  |    | 20  |
| Az: |    |    |  |      |  |    |     |

| No. | Date    | Phase                            | G. M. T.<br>Time<br>h m s                                      | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                     |
|-----|---------|----------------------------------|----------------------------------------------------------------|--------------|-------------|-------------|-------------|----------------|----------------------------------------------|
|     |         |                                  |                                                                |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                              |
| 56  | Mar. 22 | eE<br>FE                         | 11 59 18<br>12 00 49                                           |              |             |             |             |                |                                              |
| 57  | "       | eE<br>FE                         | 14 40 07<br>14 41 34                                           |              |             |             |             |                |                                              |
| 58  | " 24    | PE<br>LE<br>FE                   | 22 23 18<br>22 23 30<br>22 25 50                               |              |             |             |             |                |                                              |
| 59  | " 29    | PN<br>SN<br>LN<br>MN<br>MN<br>FN | 5 09 29<br>5 12 11<br>5 13 23<br>5 13 39<br>5 15 05<br>5 54 -- | 9.2<br>8.8   |             | 128<br>144  |             |                |                                              |
| 60  | Apr. 4  | PE<br>LE<br>MN<br>FE             | 22 33 37<br>22 33 54<br>22 33 54<br>22 36 38                   | 1.0          |             | 62          |             |                |                                              |
| 61  | " 6     | PN<br>LN<br>FN                   | 11 03 12<br>11 03 29<br>11 04 44                               |              | LN          |             |             |                |                                              |
| 62  | " 7     | PN<br>SN<br>LN<br>MN<br>FN       | 7 34 20<br>7 34 33<br>7 34 51<br>7 35 05<br>7 43 00            | 1.2          |             | 113         |             |                |                                              |
| 63  | " 8     | PZ<br>LZ<br>MN<br>FN             | 5 10 38<br>5 10 40<br>5 10 40<br>5 14 14                       | 1.2          |             | 120         |             |                | Felt at Shinkaiien eastern coast of Formosa. |
| 64  | " 9     | PE<br>LE<br>ME<br>FE             | 3 41 41<br>3 41 56<br>3 41 57<br>3 45 57                       | 1.2          |             | 125         |             |                | Felt at Karenlo eastern coast of Formosa.    |
| 65  | " 12    | PE<br>LE<br>FE                   | 18 34 44<br>18 34 57<br>18 38 43                               |              |             |             |             |                |                                              |
| 66  | "       | eE<br>FE                         | 23 43 28<br>23 45 51                                           |              |             |             |             |                |                                              |
| 67  | " 13    | PE<br>LE<br>FE                   | 0 33 37<br>0 33 55<br>0 40 45                                  |              |             |             |             |                |                                              |



No. 1-6

from Apr. 14 to Apr. 27 1928.

# TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\phi=25.02'3$   $\lambda=121^{\circ}30'8$   $h=8.0m$ . Underground; alluvial.

Instrument; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.     | $\epsilon$ . | r/T. | V.  |
|--------|--------------|------|-----|
| AN: 16 |              |      | 120 |
| AE: 30 |              |      | 20  |
| Az:    |              |      |     |

| No. | Date    | Phase                  | G. M. T.                                     |     | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km | Remarks.                                                         |
|-----|---------|------------------------|----------------------------------------------|-----|--------------|-------------|-------------|-------------|----------------|------------------------------------------------------------------|
|     |         |                        | h                                            | m s |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                |                                                                  |
| 68  | Apr. 14 | PN<br>LN<br>MN<br>FN   | 13 29 50<br>13 29 52<br>13 29 54<br>13 32 32 |     | 1.0          |             | 33          |             |                |                                                                  |
| 69  | " 15    | eE<br>LN<br>FN         | 3 42 16<br>3 42 38<br>3 45 00                |     |              |             |             |             |                |                                                                  |
| 70  | " "     | eN<br>LN<br>MN<br>FN   | 23 37 08<br>23 37 20<br>23 37 21<br>23 39 14 |     | 1.0          |             | 44          |             |                |                                                                  |
| 71  | " 16    | eZ<br>JZ<br>FZ         | 8 16 55<br>8 17 12<br>8 24 50                |     |              |             |             |             |                | Felt in southeastern coast.                                      |
| 72  | " "     | eN<br>LN<br>FN         | 19 59 10<br>19 59 30<br>20 01 18             |     |              |             |             |             |                | Felt at Tinan east coast.                                        |
| 73  | " 17    | eN<br>LN<br>FN         | 9 16 19<br>9 16 28<br>9 17 51                |     |              |             |             |             |                |                                                                  |
| 74  | " 18    | eN<br>FN               | 19 48 32<br>19 49 43                         |     |              |             |             |             |                |                                                                  |
| 75  | " "     | LN<br>FN               | 20 07 --<br>20 45 --                         |     |              |             |             |             |                | Very faint sinusoidal L waves                                    |
| 76  | " 20    | eN<br>FN               | 7 30 38<br>7 33 23                           |     |              |             |             |             |                |                                                                  |
| 77  | " "     | eE<br>FE               | 14 17 28<br>14 19 30                         |     |              |             |             |             |                |                                                                  |
| 78  | " "     | eE<br>FE               | 16 50 00<br>16 51 40                         |     |              |             |             |             |                |                                                                  |
| 79  | " 24    | PNE<br>LNE<br>ME<br>FE | 19 45 25<br>19 45 40<br>19 45 46<br>20 03 00 |     | 2.5          | 413         |             |             |                | Felt in whole islands except extreme south, at Taihoku R. F. IV. |
| 80  | " 27    | eN<br>FN               | 9 58 14<br>9 59 11                           |     |              |             |             |             |                |                                                                  |
| 81  | " "     | eN<br>LN<br>FN         | 13 50 02<br>15 50 45<br>15 50 54             |     |              |             |             |             |                |                                                                  |



## TAIHOKU, FORMOSA, JAPAN.

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory.

$\phi=25.02'.3$   $\lambda=121^{\circ}30'.8$   $h=8.0m$ . Underground; alluvial.  
 Instrument ; Omori Horizontal Pendulum Mass; EW. Comp.=16kg. NS. Comp.=55kg.

| T.   | s. | r/T. | V.  |
|------|----|------|-----|
| AN : | 16 |      | 120 |
| AE : | 30 |      | 20  |
| Az : |    |      |     |

| No. | Date    | Phase                                       | G. M. T.<br>Time<br>h m s                                                 | Period<br>s. | Amplitude   |             |             | $\Delta$<br>km                             | Remarks. |
|-----|---------|---------------------------------------------|---------------------------------------------------------------------------|--------------|-------------|-------------|-------------|--------------------------------------------|----------|
|     |         |                                             |                                                                           |              | AE<br>$\mu$ | AN<br>$\mu$ | Az<br>$\mu$ |                                            |          |
| 82  | Apr. 28 | eN<br>LN<br>MN<br>FN                        | 21 49 20<br>21 49 37<br>21 49 41<br>21 53 27                              | 2.4          |             | 68          |             | Felt at Kagi, southern district.           |          |
| 83  | " 29    | eN<br>FN                                    | 0 58 50<br>1 01 00                                                        |              |             |             |             |                                            |          |
| 84  | May 1   | PN<br>LN<br>MN<br>FN                        | 5 55 03<br>5 55 13<br>5 55 14<br>5 57 39                                  | 0.5          |             | 92          |             | Felt at Sintiky, northern district.        |          |
| 85  | " 2     | eN<br>FN                                    | 3 00 37<br>3 01 49                                                        |              |             |             |             |                                            |          |
| 86  | " "     | eN<br>LN<br>FN                              | 20 18 07<br>20 18 36<br>20 28 00                                          |              |             |             |             | Felt in southern districts of the islands. |          |
| 87  | " 4     | FZ<br>LZ<br>MZ<br>MN<br>FN                  | 4 30 22<br>4 30 51<br>4 31 00<br>4 31 00<br>4 35 25                       | 0.8<br>1.0   |             | 106         |             | Felt at Kagi, southern district.           |          |
| 88  | " 4     | eZ<br>FZ                                    | 20 12 40<br>20 13 45                                                      |              |             |             |             |                                            |          |
| 89  | " 5     | PZ<br>FZ                                    | 1 50 36<br>1 52 29                                                        |              |             |             |             | Felt in eastern districts.                 |          |
| 90  | " 6     | PZ<br>LN<br>FZ                              | 1 43 48<br>1 44 02<br>1 50 00                                             |              |             |             |             | Felt in northern mountain districts.       |          |
| 91  | " 7     | eN<br>FN                                    | 0 53 17<br>0 56 08                                                        |              |             |             |             |                                            |          |
| 92  | " "     | eN<br>FN                                    | 9 04 00<br>9 06 34                                                        |              |             |             |             |                                            |          |
| 93  | " "     | eN<br>LN<br>MN<br>FN                        | 22 54 05<br>22 54 22<br>22 54 27<br>22 57 14                              | 1.0          |             | 46          |             |                                            |          |
| 94  | " 8     | e<br>LN<br>FN<br>eN<br>eN<br>SN<br>LN<br>FN | 4 55 38<br>4 55 58<br>4 57 43<br>7 05 26<br>7 05 40<br>7 05 52<br>7 07 15 |              |             |             |             | Time uncertain.                            |          |
| 95  | " 13    |                                             |                                                                           |              |             |             |             |                                            |          |
| 95  | " 13    |                                             |                                                                           |              |             |             |             |                                            |          |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\phi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$ m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING | MASS   | REGISTRATION | To   | V   | PAPER SPEED                |
|------------|-------|---------|--------|--------------|------|-----|----------------------------|
| Omori      | EW    | No      | 16 kgm | Smoked sheet | 25.0 | 20  | Not as 12.5 mm.            |
| Omori      | NS    | No      | 55 "   | "            | 8.0  | 120 | yet det <sup>r</sup> mined |
| Wiechert   | NS    | Air     | 200 "  | "            |      | 80  | 22.5 "                     |
| Wiechert   | EW    | Air     | 200 "  | "            |      | 80  | 22.5 "                     |
| Wiechert   | Vert. | Air     | 80 "   | "            |      | 80  | 25.0 "                     |

No. 8

From May 14 to June 1, 1928.

| No. and Date  | Phase                      | Time  |     | Period | Amplitude |    |    | Distance | Remarks |
|---------------|----------------------------|-------|-----|--------|-----------|----|----|----------|---------|
|               |                            | h     | m s |        | AE        | AN | AZ |          |         |
| 96<br>May 14  | eN<br>FN                   | 17 00 | 54  |        |           |    |    |          |         |
|               |                            | 17 01 | 42  |        |           |    |    |          |         |
| 97 "          | eE<br>FE                   | 22 35 | 13  |        |           |    |    |          |         |
|               |                            | 1 10  | --  |        |           |    |    |          |         |
| 98 "          | eN<br>LN<br>FN             | 6 04  | 06  |        |           |    |    |          |         |
|               |                            | 6 04  | 17  |        |           |    |    |          |         |
|               |                            | 6 05  | 07  |        |           |    |    |          |         |
| 99 "          | eE<br>LE<br>FE             | 16 34 | 35  |        |           |    |    |          |         |
|               |                            | 16 38 | 25  |        |           |    |    |          |         |
|               |                            | 16 46 | --  |        |           |    |    |          |         |
| 100 "         | eE<br>FE                   | 2 56  | 49  |        |           |    |    |          |         |
|               |                            | 2 57  | 36  |        |           |    |    |          |         |
| 101 "         | eE<br>LE<br>FE             | 10 56 | 53  |        |           |    |    |          |         |
|               |                            | 10 56 | 56  |        |           |    |    |          |         |
|               |                            | 11 04 | 30  |        |           |    |    |          |         |
| 102 "         | eE<br>LE<br>ME<br>FE       | 2 33  | 28  |        |           |    |    |          |         |
|               |                            | 2 33  | 39  |        |           |    |    |          |         |
|               |                            | 2 33  | 41  | 0.8    | 36        |    |    |          |         |
|               |                            | 2 36  | 25  |        |           |    |    |          |         |
| 103 "         | PE<br>SE<br>LE<br>FE       | 9 54  | 09  |        |           |    |    |          |         |
|               |                            | 9 58  | 22  |        |           |    |    |          |         |
|               |                            | 10 00 | 28  |        |           |    |    |          |         |
|               |                            | 11 15 | --  |        |           |    |    |          |         |
| 104 "         | eN<br>FN                   | 15 44 | 45  |        |           |    |    |          |         |
|               |                            | 16 14 | 00  |        |           |    |    |          |         |
| 105 "         | eE<br>FE                   | 7 04  | 21  |        |           |    |    |          |         |
|               |                            | 7 32  | --  |        |           |    |    |          |         |
| 106 "         | eE<br>FE                   | 7 35  | 00  |        |           |    |    |          |         |
|               |                            | 8 06  | --  |        |           |    |    |          |         |
| 107 "         | eE<br>FE                   | 13 50 | 45  |        |           |    |    |          |         |
|               |                            | 14 16 | --  |        |           |    |    |          |         |
| 108<br>June 1 | LE<br>FE                   | 12 36 | --  |        |           |    |    |          |         |
|               |                            | 12 53 | --  |        |           |    |    |          |         |
| 109 "         | PE<br>SE<br>LE<br>ME<br>FE | 13 17 | 24  |        |           |    |    |          |         |
|               |                            | 13 21 | 35  |        |           |    |    |          |         |
|               |                            | 13 24 | 06  |        |           |    |    |          |         |
|               |                            | 13 28 | 01  | 17.3   | 463       |    |    |          |         |
|               |                            | 14 29 | --  |        |           |    |    |          |         |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\phi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$ m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING | MASS REGISTRATION |              |      | To  | V       |          | PAPER SPEED |
|------------|-------|---------|-------------------|--------------|------|-----|---------|----------|-------------|
|            |       |         | 16 kgm            | Smoked sheet | 25.0 |     | 20      | yet det. |             |
| Omori      | EW    | No      |                   |              |      |     |         |          | 125 mm.     |
| Omori      | NS    | No      | 55                | "            | 8.0  | 120 | ermined | 125.0    |             |
| Wiechert   | NS    | Air     | 200               | "            |      | 80  |         | 225.0    |             |
| Wiechert   | EW    | Air     | 200               | "            |      | 80  |         | 225.0    |             |
| Wiechert   | Vert. | Air     | 80                | "            |      | 80  |         | 25.0     |             |

No. 9

From June 3 to June 17 1922.

| No. and Date  | Phase                      | Time                                 |                                      | Period | Amplitude |    |    | Distance | Remarks                                                                                                                                  |
|---------------|----------------------------|--------------------------------------|--------------------------------------|--------|-----------|----|----|----------|------------------------------------------------------------------------------------------------------------------------------------------|
|               |                            | h                                    | m s                                  |        | AE        | AN | AZ |          |                                                                                                                                          |
| 110<br>June 3 | eE<br>SE<br>LE<br>ME<br>FE | 8 32<br>8 33<br>8 35<br>8 36<br>9 14 | 16.5<br>23.5<br>09.5<br>24.5<br>---  | 19.2   | 317       |    |    | km       | Nagasaki reports that felt II R.F. there and taper of Wiechert was thrown out by force of shock. Said the origin off West of Kosikijima. |
| 111<br>"      | eE<br>LE<br>FE             | 9 2P<br>9 22<br>9 40                 | 35.5<br>20.5<br>---                  | 20     |           |    |    |          | After shock of No. 110.                                                                                                                  |
| 112<br>4      | eE<br>LE<br>FE             | 12 28<br>12 28<br>12 31              | 24.0<br>44.2<br>06.0                 |        |           |    |    |          | Felt in the eastern districts.                                                                                                           |
| 113<br>5      | PN<br>SN<br>LN<br>MN<br>FN | 5 58<br>5 59<br>6 00<br>6 01<br>6 42 | 15<br>04<br>01<br>45<br>--           | 2.9    |           |    |    |          | After shock of No. 110.                                                                                                                  |
| 114<br>8      | eN<br>SN<br>LN<br>MN<br>FN | 4 04<br>4 04<br>4 04<br>4 04<br>4 07 | 09.9<br>17.5<br>25.4<br>38.9<br>27.2 | 1.0    | 25        |    |    |          | Felt in the middle Formosa.                                                                                                              |
| 115<br>9      | eNE<br>LNE<br>FNE          | 4 29<br>4 29<br>4 31                 | 32.6<br>42.8<br>02.9                 |        | 42        |    |    |          | Felt at Dainan'o, the eastern coast                                                                                                      |
| 116<br>12     | eNE<br>LNE<br>FNE          | 0 47<br>0 47<br>0 49                 | 20.4<br>23.3<br>16.0                 |        |           |    |    |          |                                                                                                                                          |
| 117<br>13     | eN<br>LN<br>FN             | 16 00<br>16 00<br>16 01              | 12.1<br>18.3<br>30.3                 |        |           |    |    |          |                                                                                                                                          |
| 118<br>"      | eN<br>LN<br>FN             | 21 00<br>21 01<br>21 02              | 51.8<br>04.2<br>33.2                 |        |           |    |    |          |                                                                                                                                          |
| 119<br>14     | eE<br>LE<br>ME<br>FE       | 6 15<br>6 17<br>6 18<br>7 15         | 34.2<br>49.9<br>42.2<br>---          | 6.2    | 37        |    |    |          | Press reports felt in Manila and Hongkong. The origin may be in the South China aea.                                                     |
| 120<br>15     | eE<br>LE<br>FE             | 17 18<br>17 20<br>18 05              | 19.8<br>56.1<br>---                  |        |           |    |    |          |                                                                                                                                          |
| 121<br>17     | eE                         | 3 39<br>46                           |                                      |        |           |    |    |          | By Oomori's. F lost in the next.                                                                                                         |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\phi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$  m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING | MASS REGISTRATION |              | To   | V   | PAPER SPEED                     |
|------------|-------|---------|-------------------|--------------|------|-----|---------------------------------|
|            |       |         | 16 kgm            | Smoked sheet |      |     |                                 |
| Omori      | EW    | No      |                   |              | 25.0 | 20  | not as 125 mm.                  |
| Omori      | NS    | No      | 55                | "            | 8.0  | 120 | yet det- <sup>125</sup> ermined |
| Wiechert   | NS    | Air     | 200               | "            |      | 80  | 225.0                           |
| Wiechert   | EW    | Air     | 200               | "            |      | 80  | 225.0                           |
| Wiechert   | Vert. | Air     | 80                | "            |      | 80  | 25.0                            |

No. 10

From June 17 to June 27 1928.

| No. and Date   | Phase                       | Time                                                          | Period     | Amplitude   |       |       | Distance | Remarks                                                   |
|----------------|-----------------------------|---------------------------------------------------------------|------------|-------------|-------|-------|----------|-----------------------------------------------------------|
|                |                             |                                                               |            | AE          | AN    | AZ    |          |                                                           |
| 122<br>June 17 | eE<br>LE<br>ME<br>FE        | h m s<br>4 23 19.0<br>4 31 50.9<br>4 33 22.0<br>5 15 ---      | s<br>16.0  | $\mu$<br>51 | $\mu$ | $\mu$ | km       |                                                           |
| 123<br>"       | eE<br>LE<br>FE              | 6 51 21.7<br>6 51 33.3<br>6 53 29.9                           |            |             |       |       |          |                                                           |
| 124<br>"       | eE<br>FE                    | 11 14 56.9<br>11 15 51.0                                      |            |             |       |       |          |                                                           |
| 125<br>"       | PE<br>LE<br>ME<br>FE        | 18 47 33.2<br>18 47 52.5<br>18 47 55.8<br>18 50 58.5          | 0.9        | 25          |       |       |          |                                                           |
| 126<br>"       | eE<br>LE<br>ME<br>FE        | 17 59 01.8<br>17 59 09.4<br>17 59 10.8<br>18 01 04.4          | 1.1        | 29          |       |       |          |                                                           |
| 127<br>"       | eE<br>FE                    | 16 47 23<br>17 52 --                                          |            |             |       |       |          | By Omori's. J. S. A.<br>reports South coast of<br>Alaska. |
| 128<br>"       | PE<br>LE<br>ME<br>FE        | 2 27 46.3<br>2 28 07.2<br>2 28 08.1<br>2 29 59.2              | 1.0        | 81          |       |       |          |                                                           |
| 129<br>"       | iPZ<br>LE<br>ME<br>MN<br>FE | 1 33 15.2<br>1 33 26.9<br>1 33 33.0<br>1 33 33.7<br>1 39 33.9 | 1.7<br>1.3 | 128         | 116   |       |          | Felt in the northern half<br>part of Formosa.             |
| 130<br>"       | eE<br>LE<br>FE              | 18 00 02.2<br>18 00 16.6<br>18 02 00.0                        |            |             |       |       |          |                                                           |
| 131<br>"       | eE<br>LE<br>FE              | 20 42 24.5<br>20 42 49.8<br>20 44 25.2                        |            |             |       |       |          | Felt in the eastern coast<br>districts.                   |
| 132<br>"       | eE<br>IN<br>MN<br>FN        | 18 49 39.4<br>18 49 56.2<br>18 51 11.4<br>18 52 47.2          | 0.9        | 22          |       |       | Do.      |                                                           |
| 133<br>"       | eE<br>SE<br>LE<br>FE        | 1 32 47.8<br>1 33 03.6<br>1 33 41.7<br>1 35 56.7              |            |             |       |       |          |                                                           |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\phi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$  m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING | MASS   | REGISTRATION | To   | V   | r        | s | PAPER SPEED |
|------------|-------|---------|--------|--------------|------|-----|----------|---|-------------|
| Omori      | EW    | No      | 16 kgm | Smoked sheet | 25.0 | 20  | not as   |   | 12.5 mm.    |
| Omori      | NS    | No      | 55 "   | "            | 8.0  | 120 | vet det- |   | 12.5 "      |
| Wiechert   | NS    | Air     | 200 "  | "            |      | 80  | unmined  |   | 22.5 "      |
| Wiechert   | EW    | Air     | 200 "  | "            |      | 80  |          |   | 22.5 "      |
| Wiechert   | Vert. | Air     | 80 "   | "            |      | 80  |          |   | 25.0 "      |

No. 11

From June 29 to July 14 192

| No. and Date   | Phase                | Time<br>h m s                                        | Period<br>s | Amplitude |       |       | Distance<br>km     | Remarks |
|----------------|----------------------|------------------------------------------------------|-------------|-----------|-------|-------|--------------------|---------|
|                |                      |                                                      |             | AE        | AN    | AZ    |                    |         |
| 134<br>June 29 | eE<br>LE<br>FE       | 23 00 07<br>23 08 41<br>0 20 --                      |             | $\mu$     | $\mu$ | $\mu$ | Very faint record. |         |
| 135<br>" 30    | eE<br>LE<br>ME<br>FE | 16 41 40.6<br>16 41 48.0<br>16 41 48.4<br>16 44 --   | ?           | 20        |       |       |                    |         |
| 136<br>July 1  | eN<br>LN<br>FN       | 7 55 49.1<br>7 55 57.9<br>7 57 57.0                  |             |           |       |       |                    |         |
| 137<br>" 4     | eN<br>FN             | 21 39 29<br>21 59 --                                 |             |           |       |       |                    |         |
| 138<br>" 5     | eN<br>FN             | 6 33 52<br>6 34 49                                   |             |           |       |       |                    |         |
| 139<br>" "     | eN<br>FN             | 8 49 41<br>8 50 45                                   |             |           |       |       |                    |         |
| 140<br>" 6     | eN<br>FN             | 11 40 40.1<br>11 41 50.0                             |             |           |       |       |                    |         |
| 141<br>" "     | eN<br>FN             | 22 05 31<br>22 06 26                                 |             |           |       |       |                    |         |
| 142<br>" 7     | eE<br>FE             | 18 05 52.1<br>18 08 07.0                             |             |           |       |       |                    |         |
| 143<br>" "     | eE<br>LE<br>FE       | 21 05 27.7<br>21 05 38.9<br>21 07 06.0               |             |           |       |       |                    |         |
| 144<br>" 9     | eE<br>FE             | 6 17 54.1<br>6 19 09.5                               |             |           |       |       |                    |         |
| 145<br>" "     | PE<br>FE             | 21 32 37.9<br>22 06 --                               |             |           |       |       | Slight record.     |         |
| 146<br>" 10    | eN<br>FN             | 12 19 59.6<br>12 21 36.0                             |             |           |       |       |                    |         |
| 147<br>" 12    | PN<br>LN<br>MN<br>FN | 5 00 05.8<br>5 00 21.6<br>5 00 23.5<br>5 02 27.4     | 1.0         |           | 15    |       | Felt at Taityu.    |         |
| 148<br>" 14    | PN<br>SN<br>LN<br>FN | 17 42 28.1<br>17 42 35.0<br>17 42 44.0<br>17 44 58.0 |             |           |       |       |                    |         |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\phi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$ m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING | MASS   | REGISTRATION | To   | V   | r | s | PAPER SPEED |
|------------|-------|---------|--------|--------------|------|-----|---|---|-------------|
| Omori      | EW    | No      | 16 kgm | Smoked sheet | 25.0 | 20  |   |   | 12.5 mm.    |
| Omori      | NS    | No      | 55 "   | "            | 8.0  | 120 |   |   | 12.5 "      |
| Wiechert   | NS    | Air     | 200 "  | "            |      | 80  |   |   | 22.5 "      |
| Wiechert   | EW    | Air     | 200 "  | "            |      | 80  |   |   | 22.5 "      |
| Wiechert   | Vert. | Air     | 80 "   | "            |      | 80  |   |   | 25.0 "      |

No. 12

From July 14 to July 27 192 8.

| No. and Date   | Phase                     | Time<br>h m s                                                     | Period<br>s | Amplitude   |             |             | Distance<br>km | Remarks                                                  |
|----------------|---------------------------|-------------------------------------------------------------------|-------------|-------------|-------------|-------------|----------------|----------------------------------------------------------|
|                |                           |                                                                   |             | AE<br>$\mu$ | AN<br>$\mu$ | AZ<br>$\mu$ |                |                                                          |
| 149<br>July 14 | PN<br>LN<br>MN<br>FN      | 19 23 39.0<br>19 23 49.8<br>19 23 55.6<br>19 25 52.3              | 1.2         |             | 25          |             |                |                                                          |
| 150<br>"       | PN<br>LN<br>ME<br>MS<br>F | 13 16 45.8<br>13 16 58.5<br>13 17 01.0<br>13 17 01.6<br>13 22 --- | 1.8<br>1.8  | 177         | 144         |             |                | Felt in the east coast districts,<br>at Karenko IV R. F. |
| 151<br>"       | eN<br>LN<br>FN            | 9 09 11.1<br>9 09 34.6<br>9 11 36.5                               |             |             |             |             |                | Ditto and at Karenko was felt VI<br>R. F.                |
| 152<br>"       | eN<br>LN<br>FN            | 19 40 08.0<br>19 40 41.6<br>19 42 49.0                            |             |             |             |             |                |                                                          |
| 153<br>"       | eN<br>FN                  | 13 09 08.5<br>13 11 24.3                                          |             |             |             |             |                |                                                          |
| 154<br>"       | eN<br>FN                  | 14 22 02<br>14 23 50                                              |             |             |             |             |                |                                                          |
| 155<br>"       | eN<br>FN                  | 19 26 00<br>19 30 00                                              |             |             |             |             |                | Time uncertain.                                          |
| 156<br>"       | eN<br>SN<br>FN            | 20 22 43<br>20 23 46<br>20 36 --                                  |             |             |             |             |                |                                                          |
| 157<br>"       | eE<br>LE<br>FE            | 23 00 03.0<br>23 00 17.5<br>23 02 00.0                            |             |             |             |             |                |                                                          |
| 158<br>"       | PN<br>LN<br>MN<br>FN      | 9 41 15.8<br>9 41 34.0<br>9 41 38.0<br>9 44 10.6                  | 1.3         |             | 41          |             |                |                                                          |
| 159<br>"       | eN<br>LN<br>FN            | 18 07 02.7<br>18 07 54.3<br>18 11 00.0                            |             |             |             |             |                |                                                          |
| 160<br>"       | eE<br>FE                  | 15 36 --<br>15 58 --                                              |             |             |             |             |                |                                                          |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\varphi=25^{\circ} 2' 19''$  N.  $\lambda=121^{\circ} 30' 49''$  E.  $h=8.0$ m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING | MASS REGISTRATION |        |              | To   | V   | r | s | PAPER SPEED |
|------------|-------|---------|-------------------|--------|--------------|------|-----|---|---|-------------|
|            |       |         | No.               | 16 kgm | Smoked sheet |      |     |   |   |             |
| Omori      | EW    | No.     | No.               |        |              | 25.0 | 20  |   |   | 12.5 mm.    |
| Omori      | NS    | No.     | No.               | 55     |              | 8.0  | 120 |   |   | 12.5 "      |
| Wiechert   | NS    | Air     | Air               | 200    |              |      | 80  |   |   | 22.5 "      |
| Wiechert   | EW    | Air     | Air               | 200    |              |      | 80  |   |   | 22.5 "      |
| Wiechert   | Vert. | Air     | Air               | 80     |              |      | 80  |   |   | 25.0 "      |

No. 13.

From Aug. 2 to Aug. 22 1928.

| No. and Date | Phase                     | Time                                                              | Period     | Amplitude |       |       | Distance                                             | Remarks |
|--------------|---------------------------|-------------------------------------------------------------------|------------|-----------|-------|-------|------------------------------------------------------|---------|
|              |                           |                                                                   |            | AE        | AN    | AZ    |                                                      |         |
| 161 Aug. 2   | eE<br>FE                  | <sup>h</sup> 13 07 21<br><sup>m</sup> 13 10 --<br><sup>s</sup> -- | s          | $\mu$     | $\mu$ | $\mu$ | Felt in the southeast coast of Formosa.              |         |
| 162 "        | eE<br>FE                  | 19 01 --<br>20 50 --                                              |            |           |       |       | Very faint record.                                   |         |
| 163 "        | eN<br>FN                  | 14 44 16<br>14 49 --                                              |            |           |       |       | Obscured by heavy micros.                            |         |
| 164 "        | eE<br>FE                  | 6 36 18<br>6 37 32                                                |            |           |       |       |                                                      |         |
| 165 "        | eE<br>LE<br>FE            | 8 14 06.0<br>8 18 05.1<br>8 39 --                                 |            |           |       |       |                                                      |         |
| 166 "        | P2<br>LN<br>FN            | 18 56 48.9<br>18 56 57.9<br>18 58 53.0                            |            |           |       |       | Felt at Dainan <sup>o</sup> , east coast of Formosa. |         |
| 167 "        | eE<br>FE                  | 11 20 15.7<br>11 20 56.0                                          |            |           |       |       |                                                      |         |
| 168 "        | PN<br>SN<br>MN<br>FN      | 17 05 36.7<br>17 05 44.1<br>17 05 50.9<br>17 08 00.0              | 1.7        |           | 108   |       | Felt in the northern districts of Formosa.           |         |
| 169 "        | PN<br>SN<br>MN<br>FN      | 19 45 38.7<br>19 46 07.2<br>19 49 12.2<br>19 49 04.0              | 1.9        |           | 230   |       | Felt in southern districts of Formosa.               |         |
| 170 "        | PN<br>SN<br>MN<br>FN      | 20 04 26.3<br>20 04 54.5<br>20 04 59.9<br>20 07 50.0              | 2.1        |           | 137   |       | Ditto. Aftershock of No. 169.                        |         |
| 171 "        | PZ<br>SZ<br>MN<br>ME<br>F | 20 11 36.3<br>20 12 05.0<br>20 12 05.8<br>20 12 06.8<br>20 16 --  | 1.6<br>1.6 | 297       | 222   |       | Ditto.                                               |         |
| 172 "        | eN<br>FN                  | 20 18 00<br>20 19 31                                              |            |           |       |       |                                                      |         |
| 173 "        | eE<br>LE<br>FE            | 20 38 48<br>20 39 13<br>20 40 47                                  |            |           |       |       |                                                      |         |
| 174 "        | eE<br>FE                  | 52 52 11<br>1 52 50                                               |            |           |       |       | Aftershock of No. 169.                               |         |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\varphi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$ m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING | MASS   | REGISTRATION | To   | V   | r | s | PAPER SPEED |
|------------|-------|---------|--------|--------------|------|-----|---|---|-------------|
| Omori      | EW    | No      | 16 kgm | Smoked sheet | 25.0 | 20  |   |   | 12.5 mm.    |
| Omori      | NS    | No      | 55 "   | "            | 8.0  | 120 |   |   | 12.5 "      |
| Wiechert   | NS    | Air     | 200 "  | "            |      | 80  |   |   | 22.5 "      |
| Wiechert   | EW    | Air     | 200 "  | "            |      | 80  |   |   | 22.5 "      |
| Wiechert   | Vert. | Air     | 80 "   | "            |      | 80  |   |   | 25.0 "      |

No. 14.

From Aug. 22 to Aug. 27 192 8.

| No. and Date   | Phase                | Time                                                                            | Period | Amplitude   |       |       | Distance | Remarks                                                                |
|----------------|----------------------|---------------------------------------------------------------------------------|--------|-------------|-------|-------|----------|------------------------------------------------------------------------|
|                |                      |                                                                                 |        | AE          | AN    | AZ    |          |                                                                        |
| 175<br>Aug. 22 | eE<br>LE<br>ME<br>FE | 6 <sup>h</sup> 27 <sup>m</sup> 36 <sup>s</sup><br>6 27 45<br>6 27 51<br>6 29 50 | 0.9    | $\mu$<br>37 | $\mu$ | $\mu$ | km       |                                                                        |
| 176<br>"       | eN<br>FN             | 7 46 53<br>7 47 42                                                              |        |             |       |       |          |                                                                        |
| 177<br>"       | eE<br>FE             | 13 28 32<br>13 29 50                                                            |        |             |       |       |          |                                                                        |
| 178<br>"       | eE<br>FE             | 15 12 05<br>15 13 40                                                            |        |             |       |       |          |                                                                        |
| 179<br>"       | eE<br>FE             | 15 35 45<br>15 36 54                                                            |        |             |       |       |          |                                                                        |
| 180<br>"       | eE                   | 23 13 36                                                                        |        |             |       |       |          | F lost in the following.<br>Felt at Karenko, east coast<br>of Formosa. |
| 181<br>"       | eE<br>FE             | 23 14 29<br>23 15 40                                                            |        |             |       |       |          |                                                                        |
| 182<br>"       | eE<br>FE             | 16 57 03<br>16 58 15                                                            |        |             |       |       |          |                                                                        |
| 183<br>"       | eE<br>FE             | 18 47 13<br>18 48 41                                                            |        |             |       |       |          |                                                                        |
| 184<br>"       | eN<br>LN<br>MN       | 5 57 55.0<br>5 58 10.2<br>5 58 11.4                                             | 1.5    |             | 44    |       |          | F lost in the following.                                               |
| 185<br>"       | eN<br>LN<br>FN       | 5 59 57.7<br>6 00 12.3<br>6 02 30.0                                             |        |             |       |       |          |                                                                        |
| 186<br>"       | eN<br>FN             | 21 53 07<br>21 56 07                                                            |        |             |       |       |          |                                                                        |
| 187<br>"       | eE<br>FE             | 14 03 47<br>14 05 34                                                            |        |             |       |       |          |                                                                        |
| 188<br>"       | PN<br>LN<br>MN<br>FE | 20 01 07.6<br>20 01 35.5<br>20 01 36.9<br>20 04 43.0                            | 1.4    | 129         |       |       |          | After shock of No. 169.                                                |
| 189<br>"       | eE<br>FN             | 20 04 50<br>20 07 --                                                            |        |             |       |       |          | Ditto.                                                                 |
| 190<br>"       | eN<br>LN<br>FN       | 20 10 26.5<br>20 10 54.2<br>20 12 06.0                                          |        |             |       |       |          | Ditto.                                                                 |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\phi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$  m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING | MASS REGISTRATION |              |      | To  | V | r | s | PAPER SPEED |
|------------|-------|---------|-------------------|--------------|------|-----|---|---|---|-------------|
|            |       |         | 16 kgm            | Smoked sheet | 25.0 |     |   |   |   |             |
| Omori      | EW    | No      | 55                | ✓            | 8.0  | 120 |   |   |   | 12.5 m.m.   |
| Omori      | NS    | No      | 200               | ✓            | 80   |     |   |   |   | 12.5 "      |
| Wiechert   | NS    | Air     | 200               | ✓            | 80   |     |   |   |   | 22.5 "      |
| Wiechert   | EW    | Air     | 200               | ✓            | 80   |     |   |   |   | 22.5 "      |
| Wiechert   | Vert. | Air     | 80                | ✓            | 80.  |     |   |   |   | 25.0 "      |

No. 15.

From Aug. 26 to Aug. 29 192 8.

| No. and Date | Phase       | Time                                                 | Period     | Amplitude |       |    | Distance | Remarks                                          |
|--------------|-------------|------------------------------------------------------|------------|-----------|-------|----|----------|--------------------------------------------------|
|              |             |                                                      |            | AE        | AN    | AZ |          |                                                  |
| 191 Aug. 26  | pN LN       | 20 <sup>h</sup> 13 <sup>m</sup> 29 <sup>s</sup> 7    | s          | $\mu$     | $\mu$ |    |          | After shock of No. 169. F lost in the following. |
| 192 "        | LN          | 20 14 29.4                                           | 1.4        | 114       |       |    |          | Ditto.                                           |
| 193 "        | eN FN       | 20 18 10                                             |            |           |       |    |          | Ditto.                                           |
| 194 "        | PN LN FN    | 22 05 36.8<br>22 06 05.6<br>22 08 35.0               |            |           |       |    |          | Ditto.                                           |
| 195 "        | eN LN       | 22 10 42.0<br>22 11 11.9                             |            |           |       |    |          | Ditto. F lost in the following.                  |
| 196 "        | PN LN MN ME | 22 11 35.5<br>22 12 02.9<br>22 12 10.4<br>22 12 11.5 | 3.3<br>3.1 | 220       | 308   |    |          | Ditto. F lost in the following.                  |
| 197 "        | eN          | 22 18 37                                             |            |           |       |    |          | F lost in the next.                              |
| 198 "        | eN          | 22 20 20                                             |            |           |       |    |          | Ditto.                                           |
| 199 "        | eN LN FN    | 22 21 56<br>22 22 23<br>22 24 08                     |            |           |       |    |          |                                                  |
| 200 "        | eN FN       | 23 16 35<br>23 18 49                                 |            |           |       |    |          |                                                  |
| 201 "        | PN LN ME MN | 0 04 38.9<br>0 05 06.7<br>0 05 07.5<br>0 05 10.2     | 1.2<br>1.9 | 109       | 90    |    |          | After shock of No. 169. F lost in the following. |
| 202 "        | eN FN       | 0 11 51<br>0 14 00                                   |            |           |       |    |          |                                                  |
| 203 "        | eN FN       | 1 41 33<br>1 43 52                                   |            |           |       |    |          |                                                  |
| 204 "        | eN FN       | 12 51 19<br>12 52 43                                 |            |           |       |    |          |                                                  |
| 205 "        | eE FE       | 14 17 45<br>14 19 44                                 |            |           |       |    |          | After shock of No. 169.                          |
| 206 "        | eN LN FN    | 17 09 16.2<br>17 09 43.8<br>17 11 51.0               |            |           |       |    |          | Ditto.                                           |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\phi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$ m Undergound : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING |    |    | MASS REGISTRATION |              |      | To  | V   | r | s | PAPER SPEED |
|------------|-------|---------|----|----|-------------------|--------------|------|-----|-----|---|---|-------------|
|            |       | EW      | NS | NS | 16 kgm            | Smoked sheet | 25.0 |     |     |   |   |             |
| Omori      |       |         |    |    |                   |              |      |     |     |   |   | 12.5 mm.    |
| Omori      |       |         |    |    | 55                |              |      | 8.0 | 120 |   |   | 12.5        |
| Wiechert   |       |         |    |    | 200               |              |      |     | 80  |   |   | 22.5        |
| Wiechert   |       |         |    |    | 200               |              |      |     | 80  |   |   | 22.5        |
| Wiechert   |       |         |    |    | 80                |              |      |     | 80  |   |   | 25.0        |

No. 16.

From Aug. 29 to Aug. 30 1928.

| No. and Date   | Phase                  | Time                                                        | Period     | Amplitude |       |       | Distance | Remarks                                                            |
|----------------|------------------------|-------------------------------------------------------------|------------|-----------|-------|-------|----------|--------------------------------------------------------------------|
|                |                        |                                                             |            | AE        | AN    | AZ    |          |                                                                    |
| 207<br>Aug. 29 | eN<br>FN               | 17 <sup>h</sup> 13 <sup>m</sup> 36 <sup>s</sup><br>17 14 20 | s          | $\mu$     | $\mu$ | $\mu$ | km       |                                                                    |
| 208<br>"       | PZ<br>LZ<br>MZ<br>FZ   | 17 16 46.1<br>17 17 14.2<br>17 17 19.5<br>17 24 00.0        | 5.8        |           |       |       |          | After shock of No. 169.<br>MN and ME lost because<br>of too great. |
| 209<br>"       | PZ<br>EZ<br>FZ         | 17 31 11.6<br>17 31 41.7<br>17 32 31.0                      |            |           |       |       |          | Ditto.                                                             |
| 210<br>"       | eE<br>FE               | 17 50 07<br>17 51 22                                        |            |           |       |       |          |                                                                    |
| 211<br>"       | PE<br>LE<br>FE         | 17 57 33.1<br>17 58 06.0<br>18 00 28.4                      |            |           |       |       |          | Ditto.                                                             |
| 212<br>"       | eE<br>LE<br>FE         | 18 15 21.6<br>18 15 45.2<br>18 17 49.0                      |            |           |       |       |          | Ditto.                                                             |
| 213<br>"       | eE<br>FE               | 18 33 51<br>18 34 32                                        |            |           |       |       |          |                                                                    |
| 214<br>"       | eE<br>FE               | 2 17 44<br>2 19 35                                          |            |           |       |       |          |                                                                    |
| 215<br>"       | PNE<br>LNE<br>FN       | 6 31 42.5<br>6 32 09.1<br>6 49 --                           |            |           |       |       |          | Atershock of No. 169. M lost.                                      |
| 216<br>"       | PNE<br>LNE<br>ME<br>MN | 10 54 58.5<br>10 55 28.7<br>10 55 33.4<br>10 55 35.4        | 1.6<br>2.0 | 196       | 196   |       |          | Ditto. F masked by the following.                                  |
| 217<br>"       | eE<br>FE               | 11 03 36<br>11 04 27                                        |            |           |       |       |          |                                                                    |
| 218<br>"       | eE<br>FE               | 11 34 35<br>11 35 21                                        |            |           |       |       |          |                                                                    |
| 219<br>"       | PE<br>LE<br>FE         | 14 23 05.7<br>14 23 31.6<br>14 25 54.0                      |            |           |       |       |          |                                                                    |
| 220<br>"       | eE<br>FE               | 15 24 08<br>15 25 22                                        |            |           |       |       |          |                                                                    |
| 221<br>"       | eE<br>FE               | 15 36 18<br>15 38 20                                        |            |           |       |       |          |                                                                    |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\phi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$  m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING | MASS   | REGISTRATION | To   | V   | r | s | PAPER SPEED |
|------------|-------|---------|--------|--------------|------|-----|---|---|-------------|
| Omori      | EW    | No      | 16 kgm | Snoked sheet | 25.0 | 20  |   |   | 12.5 mm.    |
| Omori      | NS    | No      | 55 "   | "            | 8.0  | 120 |   |   | 12.5 "      |
| Wiechert   | NS    | Air     | 200 "  | "            |      | 80  |   |   | 22.5 "      |
| Wiechert   | EW    | Air     | 200 "  | "            |      | 80  |   |   | 22.5 "      |
| Wiechert   | Vert. | Air     | 80 "   | "            |      | 80  |   |   | 25.0 "      |

No. 17.

Aug. 30m Sept. 4 to 8. 192

| No. and Date | Phase                      | Time                                                               | Period     | Amplitude |       |       | Distance | Remarks                        |
|--------------|----------------------------|--------------------------------------------------------------------|------------|-----------|-------|-------|----------|--------------------------------|
|              |                            |                                                                    |            | AE        | AN    | AZ    |          |                                |
| 222 Aug. 30  | eE<br>FE                   | 19 <sup>h</sup> 19 <sup>m</sup> 01 <sup>s</sup><br>19 20 30        | s          | $\mu$     | $\mu$ | $\mu$ | km       |                                |
| 223 "        | eE<br>FE                   | 22 20 05<br>22 21 19                                               |            |           |       |       |          |                                |
| 224 "        | eE<br>FE                   | 23 21 20<br>23 22 20                                               |            |           |       |       |          |                                |
| 225 "        | PE<br>LE<br>ME<br>MN<br>F  | 0 46 16.1<br>0 46 44.6<br>0 46 46.0<br>0 46 49.3<br>0 55 00.0      | 1.0<br>2.4 | 98        | 120   |       |          | Aftershock of No. 169.         |
| 226 "        | eE<br>FE                   | 1 38 18<br>1 39 30                                                 |            |           |       |       |          |                                |
| 227 "        | PE<br>LE<br>FE             | 3 51 54.4<br>3 52 23.1<br>3 55 00.0                                |            |           |       |       |          | Aftershock of No. 169.         |
| 228 Sept. 1  | eE<br>LE<br>FE             | 6 30 --<br>6 35 --<br>6 57 --                                      |            |           |       |       |          | Faint record of distant quake. |
| 229 "        | eE<br>FE                   | 8 44 52<br>8 45 52                                                 |            |           |       |       |          |                                |
| 230 "        | PE<br>LE<br>ME<br>MN<br>FN | 12 44 02.5<br>12 44 27.8<br>12 44 30.9<br>12 44 34.8<br>12 47 41.0 | 2.1<br>1.9 | 43        | 43    |       |          |                                |
| 231 "        | eE<br>LE<br>FE             | 21 40 23.0<br>21 40 31.8<br>21 42 38.0                             |            |           |       |       |          |                                |
| 232 "        | eN<br>FN                   | 10 38 43<br>10 40 00                                               |            |           |       |       |          |                                |
| 233 "        | ePNE<br>SNE<br>LNE<br>FN   | 21 13 25<br>21 18 44<br>20 19 14<br>21 23 57                       |            |           |       |       |          | Time uncertain.                |
| 234 "        | eE<br>FE                   | 5 57 25<br>5 59 14                                                 |            |           |       |       |          |                                |
| 235 "        | eN<br>LN<br>FN             | 17 56 03.0<br>17 56 31.8<br>17 58 23.0                             |            |           |       |       |          |                                |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\phi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$  m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING | MASS REGISTRATION |              | To   | V   | r | s | PAPER SPEED |
|------------|-------|---------|-------------------|--------------|------|-----|---|---|-------------|
|            |       |         | 16 kgm            | Smoked sheet |      |     |   |   |             |
| Omori      | EW    | No      | No                | No           | 25.0 | 20  |   |   | 12.5 mm.    |
| Omori      | NS    | No      | 55                |              | 8.0  | 120 |   |   | 12.5 "      |
| Wiechert   | NS    | Air     | 200               |              |      | 80  |   |   | 22.5 "      |
| Wiechert   | EW    | Air     | 200               |              |      | 80  |   |   | 22.5 "      |
| Wiechert   | Vert. | Air     | 80                |              |      | 80  |   |   | 25.0 "      |

No. 18

From Sept. 7 to Sept. 22 1928.

| No. and/<br>Date | Phase | Time                                 | Period<br>s | Amplitude   |             |             | Distance<br>km | Remarks                               |
|------------------|-------|--------------------------------------|-------------|-------------|-------------|-------------|----------------|---------------------------------------|
|                  |       |                                      |             | AE<br>$\mu$ | AN<br>$\mu$ | AZ<br>$\mu$ |                |                                       |
| 236<br>Sept. 7   | eE    | 4 57 <sup>m</sup> 30 <sup>s</sup> .6 |             |             |             |             |                |                                       |
|                  | LE    | 4 57 57.4                            |             |             |             |             |                |                                       |
|                  | FE    | 4 59 20.4                            |             |             |             |             |                |                                       |
| 237<br>"         | eE    | 5 01 34.9                            |             |             |             |             |                |                                       |
|                  | FE    | 5 02 12.9                            |             |             |             |             |                |                                       |
| 238<br>"         | eE    | 0 45 08                              |             |             |             |             |                |                                       |
|                  | FE    | 0 46 48                              |             |             |             |             |                |                                       |
| 239<br>"         | eE    | 4 33 39.5                            |             |             |             |             |                |                                       |
|                  | FE    | 4 35 40.0                            |             |             |             |             |                |                                       |
| 240<br>"         | eE    | 3 32 35                              |             |             |             |             |                |                                       |
|                  | FE    | 4 10 --                              |             |             |             |             |                |                                       |
| 241<br>"         | eZ    | 0 52 03.3                            |             |             |             |             |                |                                       |
|                  | IZ    | 0 52 49.5                            |             |             |             |             |                |                                       |
|                  | PZ    | 0 54 46.0                            |             |             |             |             |                |                                       |
| 242<br>"         | eE    | 5 40 56.4                            |             |             |             |             |                |                                       |
|                  | LE    | 5 41 07.5                            |             |             |             |             |                |                                       |
|                  | ME    | 5 41 12.2                            | 1.0         | 45          |             |             |                | Horizontal lost in<br>changing sheet. |
|                  | FE    | 5 43 48.0                            |             |             |             |             |                |                                       |
| 243<br>"         | eE    | 10 13 10.1                           |             |             |             |             |                |                                       |
|                  | LE    | 10 13 13.6                           |             |             |             |             |                |                                       |
|                  | ME    | 10 13 20.2                           |             |             |             |             |                |                                       |
|                  | FE    | 10 15 36.5                           |             |             |             |             |                |                                       |
| 244<br>"         | eN    | 0 03 46.6                            |             |             |             |             |                |                                       |
|                  | FN    | 0 05 54.0                            |             |             |             |             |                |                                       |
| 245<br>"         | eE    | 3 33 31.0                            |             |             |             |             |                |                                       |
|                  | LE    | 3 33 48.2                            |             |             |             |             |                |                                       |
|                  | FE    | 3 36 18.0                            |             |             |             |             |                |                                       |
| 246<br>"         | eE    | 16 18 14.3                           |             |             |             |             |                |                                       |
|                  | LE    | 16 18 33.9                           |             |             |             |             |                |                                       |
|                  | FE    | 16 20 35.0                           |             |             |             |             |                |                                       |
| 247<br>"         | eE    | 8 19 50                              |             |             |             |             |                |                                       |
|                  | LE    | 8 20 09                              |             |             |             |             |                |                                       |
|                  | FE    | 8 22 28                              |             |             |             |             |                |                                       |
| 248<br>"         | eE    | 20 13 29                             |             |             |             |             |                |                                       |
|                  | FE    | 20 14 39                             |             |             |             |             |                |                                       |
| 249<br>"         | PZ    | 1 28 22.5                            |             |             |             |             |                |                                       |
|                  | PZ    | 1 29 36.5                            |             |             |             |             |                |                                       |
| 250<br>"         | PE    | 7 05 42.8                            |             |             |             |             |                |                                       |
|                  | LE    | 7 06 02.8                            |             |             |             |             |                |                                       |
|                  | FE    | 7 08 54.0                            |             |             |             |             |                |                                       |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\phi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$  m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING | MASS   | REGISTRATION | To   | V   | r | s | PAPER SPEED |
|------------|-------|---------|--------|--------------|------|-----|---|---|-------------|
| Omori      | EW    | No      | 16 kgm | Smoked sheet | 25.0 | 20  |   |   | 12.5 mm.    |
| Omori      | NS    | No      | 55 "   | "            | 8.0  | 120 |   |   | 12.5 "      |
| Wiechert   | NS    | Air     | 200 "  | "            |      | 80  |   |   | 22.5 "      |
| Wiechert   | EW    | Air     | 200 "  | "            |      | 80  |   |   | 22.5 "      |
| Wiechert   | Vert. | Air     | 80 "   | "            |      | 80  |   |   | 25.0 "      |

No. 19.

From Sept. 22 to Oct. 5 1928.

| No. and Date    | Phase                      | Time                                                          | Period<br>s | Amplitude   |             |             | Distance<br>km | Remarks                 |
|-----------------|----------------------------|---------------------------------------------------------------|-------------|-------------|-------------|-------------|----------------|-------------------------|
|                 |                            |                                                               |             | AE<br>$\mu$ | AN<br>$\mu$ | AZ<br>$\mu$ |                |                         |
| 251<br>Sept. 22 | eN<br>FN                   | 7 <sup>h</sup> 49 <sup>m</sup> 20 <sup>s</sup><br>8 25        |             |             |             |             |                |                         |
| 252<br>"        | PZ<br>LZ<br>MZ<br>FZ       | 10 48 14.7<br>10 48 44.9<br>10 48 47.4<br>10 53 13.0          | 2.7         |             |             | 44          |                | Paint sinusoidal waves. |
| 253<br>"        | eE<br>FE                   | 9 02 27<br>9 03 28                                            |             |             |             |             |                |                         |
| 254<br>"        | eE<br>LE<br>FE             | 13 58 26.9<br>13 58 35.4<br>14 00 26.0                        |             |             |             |             |                |                         |
| 255<br>"        | eE<br>LE<br>FE             | 21 37 01<br>21 37 29<br>21 39 30                              |             |             |             |             |                |                         |
| 256<br>"        | eZ<br>FZ                   | 0 03 22<br>0 04 49                                            |             |             |             |             |                |                         |
| 257<br>"        | eN<br>FN                   | 8 07 31<br>8 08 42                                            |             |             |             |             |                |                         |
| 258<br>"        | eN<br>FN                   | 23 21 46<br>23 23 12                                          |             |             |             |             |                |                         |
| 259<br>"        | eE<br>LE<br>ME<br>FE       | 16 06 52.1<br>16 07 05.5<br>16 07 16.1<br>16 09 36.0          | 1.0         | 40          |             |             |                |                         |
| 260<br>"        | eE<br>FE                   | 2 48 58<br>2 50 30                                            |             |             |             |             |                |                         |
| 261<br>"        | eE<br>FE                   | 20 19 06<br>20 20 27                                          |             |             |             |             |                |                         |
| 262<br>Oct. 2   | PE<br>LE<br>MN<br>ME<br>FE | 3 43 07.5<br>3 43 17.1<br>3 43 18.1<br>3 43 22.0<br>3 45 25.0 | 1.2<br>1.0  | 66<br>66    | 66          |             |                |                         |
| 263<br>"        | PE<br>LE<br>FE             | 7 39 17.8<br>7 39 33.5<br>7 40 55.7                           |             |             |             |             |                |                         |
| 264<br>"        | PN<br>LN<br>FN             | 3 57 25.1<br>3 57 58.4<br>3 59 49.0                           |             |             |             |             |                |                         |



# TAIHOKU. TAIWAN. NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\varphi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$ m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING | MASS REGISTRATION |     |        | To           | V   | r   | s | PAPER SPEED |
|------------|-------|---------|-------------------|-----|--------|--------------|-----|-----|---|-------------|
|            |       |         | EW                | No  | 16 kgm | Smoked sheet |     |     |   |             |
| Omori      |       |         | NS                | No  | 55     | "            | 8.0 | 120 |   | 12.5 m.m.   |
| Wiechert   |       |         | NS                | Air | 200    | "            |     | 80  |   | 12.5 "      |
| Wiechert   |       |         | EW                | Air | 200    | "            |     | 80  |   | 22.5 "      |
| Wiechert   |       |         | Vert.             | Air | 80     | "            |     | 80  |   | 22.5 "      |
|            |       |         |                   |     |        |              |     |     |   | 25.0 "      |

No. 23

From Nov. 19 to Dec. 17 1928.

| No. and Date   | Phase            | Time                                           | Period | Amplitude |       |       | Distance | Remarks |
|----------------|------------------|------------------------------------------------|--------|-----------|-------|-------|----------|---------|
|                |                  |                                                |        | AE        | AN    | AZ    |          |         |
| 311<br>Nov. 19 | PN               | 8 <sup>h</sup> 26 <sup>m</sup> 31 <sup>s</sup> | s      | $\mu$     | $\mu$ | $\mu$ | km       |         |
|                | LN               | 8 26 38                                        |        |           |       |       |          |         |
|                | MN               | 8 26 33                                        | 0.4    |           | 86    |       |          |         |
|                | FN               | 8 28 --                                        |        |           |       |       |          |         |
| 312<br>Dec. 1  | PN               | 4 27 44                                        |        |           |       |       |          |         |
|                | P <sup>2</sup> N | 4 36 05                                        |        |           |       |       |          |         |
|                | P <sup>3</sup> N | 4 42 42                                        |        |           |       |       |          |         |
|                | SN               | 4 51 54                                        |        |           |       |       |          |         |
|                | LN               | 5 23 51                                        |        |           |       |       |          |         |
|                | M <sub>1</sub> N | 5 54 21                                        | 25.0   |           | 32    |       |          |         |
|                | M <sub>2</sub> N | 6 01 11                                        | 20.0   |           | 44    |       |          |         |
|                | M <sub>3</sub> N | 6 04 08                                        | 18.7   |           | 49    |       |          |         |
|                | M <sub>4</sub> E | 6 08 00                                        | 16.8   |           | 42    |       |          |         |
|                | M <sub>5</sub> E | 6 12 24                                        | 16.7   |           | 46    |       |          |         |
|                | F                | 7 30 --                                        |        |           |       |       |          |         |
| 313<br>"       | eN               | 5 03 --                                        |        |           |       |       |          |         |
|                | LN               | 5 33 --                                        |        |           |       |       |          |         |
|                | FN               | 6 55 --                                        |        |           |       |       |          |         |
| 314<br>"       | PE               | 7 27 05.9                                      |        |           |       |       |          |         |
|                | SE               | 7 28 17.9                                      |        |           |       |       |          |         |
|                | LE               | 7 27 23.3                                      |        |           |       |       |          |         |
|                | FE               | 7 28 15.1                                      |        |           |       |       |          |         |
| 315<br>"       | PE               | 22 31 10.4                                     |        |           |       |       |          |         |
|                | LE               | 22 31 38.0                                     |        |           |       |       |          |         |
|                | FE               | 22 33 36.2                                     |        |           |       |       |          |         |
| 316<br>"       | eE               | 9 21 35                                        |        |           |       |       |          |         |
|                | SE               | 9 25 23                                        |        |           |       |       |          |         |
|                | LE               | 9 27 26                                        |        |           |       |       |          |         |
|                | FE               | 10 10 --                                       |        |           |       |       |          |         |
| 317<br>"       | eN               | 21 14 44                                       |        |           |       |       |          |         |
|                | LN               | 21 14 58                                       |        |           |       |       |          |         |
|                | FN               | 21 17 19                                       |        |           |       |       |          |         |
| 318<br>"       | PZ               | 20 31 32                                       |        |           |       |       |          |         |
|                | SE               | 20 42 12                                       |        |           |       |       |          |         |
|                | LE               | 21 00 42                                       |        |           |       |       |          |         |
|                | FE               | 21 27 30                                       |        |           |       |       |          |         |
| 319<br>"       | eE               | 15 46 22                                       |        |           |       |       |          |         |
|                | LE               | 15 46 30                                       |        |           |       |       |          |         |
|                | ME               | 15 46 31                                       | 1.0    |           | 54    |       |          |         |
|                | FN               | 15 47 40                                       |        |           |       |       |          |         |
| 520<br>"       | eN               | 11 04 30                                       |        |           |       |       |          |         |
|                | LN               | 11 04 40                                       |        |           |       |       |          |         |
|                | MN               | 11 04 41                                       | 1.0    |           | 80    |       |          |         |
|                | FN               | 11 06 33                                       |        |           |       |       |          |         |



# TAIHOKU, TAIWAN, NIPPON. (Formosa, Japan)

## SEISMIC BULLETIN

of the Taihoku Meteorological Observatory

$\phi = 25^{\circ} 2' 19''$  N.  $\lambda = 121^{\circ} 30' 49''$  E.  $h = 8.0$ m Underground : alluvial.

Time : Mean Greenwich, midnight to midnight.

### INSTRUMENTS CONSTANTS

| INSTRUMENT | COMP. | DAMPING MASS REGISTRATION |     |        | To           | V    | r   | s | PAPER SPEED |
|------------|-------|---------------------------|-----|--------|--------------|------|-----|---|-------------|
|            |       | EW                        | No  | 16 kgm | Smoked sheet | 25.0 | 20  |   | 12.5 mm.    |
| Omori      | NS    | NS                        | No  | 55     | "            | 8.0  | 120 |   | 12.5 "      |
| Wiechert   | NS    | NS                        | Air | 200    | "            |      | 80  |   | 22.5 "      |
| Wiechert   | EW    | EW                        | Air | 200    | "            |      | 80  |   | 22.5 "      |
| Wiechert   | Vert. | Vert.                     | Air | 80     | "            |      | 80  |   | 25.0 "      |

No. 24

From Dec. 19 to Dec. 31 192

| No. and Date   | Phase | Time       | Period | Amplitude |       |       | Distance | Remarks |
|----------------|-------|------------|--------|-----------|-------|-------|----------|---------|
|                |       |            |        | AE        | AN    | AZ    |          |         |
| 321<br>Dec. 19 | PZ    | 11 41 37.6 | s      | $\mu$     | $\mu$ | $\mu$ | km       |         |
|                | SN    | 11 44 54.7 |        |           |       |       |          |         |
|                | LN    | 11 47 05.0 |        |           |       |       |          |         |
|                | ME    | 11 48 44.3 | 24.0   | 280       |       |       |          |         |
|                | ME    | 11 50 53.5 | 14.3   | 177       |       |       |          |         |
|                | MN    | 11 50 53.5 | 13.1   |           | 151   |       |          |         |
|                | FN    | 13 10 --   |        |           |       |       |          |         |
| 322<br>" 20    | eE    | 22 25 23   |        |           |       |       |          |         |
|                | FE    | 22 27 25   |        |           |       |       |          |         |
| 323<br>" 21    | eE    | 18 53 51   |        |           |       |       |          |         |
|                | FE    | 18 55 20   |        |           |       |       |          |         |
| 324<br>" 24    | PZ    | 13 19 14.0 |        |           |       |       |          |         |
|                | LZ    | 13 19 30.9 |        |           |       |       |          |         |
|                | ME    | 13 20 05.2 | 1.6    | 36        |       |       |          |         |
|                | FE    | 13 24 31.0 |        |           |       |       |          |         |
| 325<br>" "     | eE    | 16 50 21   |        |           |       |       |          |         |
|                | FE    | 17 00 56   |        |           |       |       |          |         |
| 326<br>" 28    | eE    | 11 41 22   |        |           |       |       |          |         |
|                | FE    | 11 42 50   |        |           |       |       |          |         |
| 327<br>" "     | eE    | 14 23 44   |        |           |       |       |          |         |
|                | SE    | 14 27 32   |        |           |       |       |          |         |
|                | LE    | 14 29 38   |        |           |       |       |          |         |
|                | ME    | 14 32 51   | 18.2   | 689       |       |       |          |         |
|                | FE    | 15 50 --   |        |           |       |       |          |         |
| 328<br>" 29    | eN    | 21 57 48   |        |           |       |       |          |         |
|                | FN    | 22 05 45   |        |           |       |       |          |         |
| 329<br>" 30    | eN    | 11 46 29   |        |           |       |       |          |         |
|                | LN    | 11 46 41   |        |           |       |       |          |         |
|                | FN    | 11 49 14   |        |           |       |       |          |         |
| 330<br>" "     | eN    | 22 32 37   |        |           |       |       |          |         |
|                | FN    | 22 47 33   |        |           |       |       |          |         |
| 331<br>" 31    | eZ    | 7 44 59    | 25     |           |       |       |          |         |
|                | FZ    | 7 49 25    |        |           |       |       |          |         |
| 332<br>" "     | eE    | 12 33 19   |        |           |       |       |          |         |
|                | FE    | 12 35 26   |        |           |       |       |          |         |