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ANNUAL REPORT
OF THE
METEOROLOGICAL
AND THE
SEISMOLOGICAL OBSERVATIONS
MADE AT THE
INTERNATIONAL LATITUDE OBSERVATORY
OF MIZUSAWA
FOR
THE YEAR 1908.

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LATITUDE  $39^{\circ} 8' N.$ , LONGITUDE  $141^{\circ} 7' E.$ ,  
HEIGHT ABOVE MEAN SEA LEVEL 61 METRES.

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PUBLISHED BY THE INTERNATIONAL LATITUDE OBSERVATORY  
OF MIZUSAWA.

1909.

The present report contains the results of the meteorological and the seismological observations in the observatory during the year 1908. No alteration is done in the kinds and the methods of observations. The observations and the computations were done by Messrs. T. Ito, and K. Aoki under the superintendence of Dr. M. Hashimoto.

The following are to be generally noticed with respect to the meteorological observations :

*Hours of observations.* — The *Japanese Central Standard Time* (mean time of the meridian 9<sup>h</sup> east from Greenwich) is adopted.

*Air Pressure.* — The barometric readings in millimetres are reduced only to freezing point of water; the corrections to sea level and to standard gravity are given at the bottoms of the respective pages.

*Air and Earth Temperatures.* — The degrees are given in Centigrades.

*Wind.* — The velocity is expressed in metres per second. The direction is observed according to the sixteen cardinal points.

*Cloud.* — The amount is estimated by the scale 0-10, the forms are classified according to *Howard*, and the direction of motion is observed according to the eight cardinal points.

*Tension of Water Vapour.* — It is given in millimetres.

*Relative Humidity.* — It is given in percentages.

*Precipitation.* — The amount is given in millimetres. The number of days is counted only when the amount is 0.1 mm. or more in a day; but for those days with either snow, hail, or graupel, the amount is not taken into consideration.

*Clear and Cloudy Days.* — The mean amount of cloud is less than 2 exclusive for the former, and more than 8 inclusive for the latter.

*Duration of Sunshine.* — It is recorded by a sunshine-recorder of *Jordan's* pattern.

*Amount of Ozone.* — It is observed by means of *Sedan's* ozonometer, and is given in scale of 0-10.

*Amount of Evaporation.* — It is given in millimetres, the daily amount being, according to the instruction of the Central Meteorological Observatory in Tokio, that which results from 10<sup>h</sup> a. m. of the preceding day till 10<sup>h</sup> a. m. of the day in question.

The occurrence of meteorological phenomena is recorded with the following international symbols

|   |                           |   |              |    |                |
|---|---------------------------|---|--------------|----|----------------|
| ● | Rain                      | ~ | Glazed frost | C  | Cirrus         |
| * | Snow                      | + | Snow drift   | CS | Cirro-stratus  |
| ⌘ | Thunder storm             | ← | Ice crystals | CK | Cirro-cumulus  |
| ⌘ | Thunder without lightning | ⊕ | Solar corona | KC | Cumulo-cirrus  |
| < | Lightning without thunder | ○ | Solar halo   | SC | Strato-cirrus  |
| △ | Graupel                   | ☽ | Lunar corona | SK | Strato-cumulus |
| △ | Hail                      | ☾ | Lunar halo   | N  | Nimbus         |
| ≡ | Mist, fog                 | ↙ | Gales        | K  | Cumulus        |
| ┌ | Hoar frost                | ∩ | Rainbow      | KN | Cumulo-nimbus  |
| ⌒ | Dew                       | ☾ | Aurora       | S  | Stratus        |
| ∨ | Silver thaw               | ∞ | Dust haze    |    |                |

The descriptions of the meteorological instruments are found in the annual reports for the years 1902, 1904, and 1905.

The seismological instruments in use are two Omori's horizontal pendulums, of the same type as that described in p. 8 of No. 5, "Publication of the Earthquake Investigation Committee in Foreign Language," one serving to register the NS component, and the other the EW component, of seismological movements.

The instrumental constants are as follows:

|                                                                      | NS Component<br>Apparatus | EW Component<br>Apparatus |
|----------------------------------------------------------------------|---------------------------|---------------------------|
| Period of free oscillation                                           | 30 seconds                | 30 seconds                |
| Multiplication of the pointer                                        | 9 times                   | 20 times                  |
| Weight of the heavy cylinder                                         | 6.5 kilograms             | 15.0 kilograms            |
| Length of the horizontal strut                                       | 79 centimetres            | 40 centimetres            |
| Vertical distance between the points<br>of support and of suspension | 109 centimetres           | 87 centimetres            |

The time adopted in the seismological observations is the Japanese Central Standard Time reckoned from midnight.

June, 1909.

H. Kimura, *Rigakuhakushi*  
Director of the International Latitude Observatory  
of Mizusawa.

**SEISMOLOGICAL OBSERVATIONS.**

## TABLE A.

(Earthquakes)

| No. | Date<br>1908 | Time of Occurrence † |       | Duration<br>of<br>Total<br>Earthquake | Maximum Range<br>of Motion |      | Character<br>of<br>Motion | Intensity      | Remarks |
|-----|--------------|----------------------|-------|---------------------------------------|----------------------------|------|---------------------------|----------------|---------|
|     |              | (NS)                 | (EW)  |                                       | (NS)                       | (EW) |                           |                |         |
| 1   | January 5    | h m s                | m s   | m                                     | mm                         | mm   | Quick                     | Feeble         |         |
| 2   | 6            | 00 17 52             | 17 53 | 5.2                                   | 0.06                       | 0.03 | "                         | "              |         |
| 3   | 11           | 12 39 45             | 39 46 | 43.2                                  | 0.06                       | 1.07 | Slow                      | "              |         |
| 4   | 15           | 21 58 04             | 58 01 | 36.5                                  | 11.31                      | —    | Quick                     | Weak<br>Feeble | Felt    |
| 5   | 17           | 06 59 49             | 59 49 | 11.6                                  | 0.06                       | 0.05 | "                         | "              |         |
| 6   | 18           | 01 05 30             | 05 26 | 14.3                                  | 0.72                       | 0.79 | "                         | "              | Felt    |
| 7   | 19           | 23 21 47             | 21 47 | 3.5                                   | 0.16                       | 0.15 | "                         | "              | "       |
| 8   | 20           | 20 27 37             | 27 36 | 5.7                                   | 0.18                       | 0.15 | "                         | "              |         |
| 9   | 24           | 21 34 26             | 34 28 | 3.5                                   | 0.02                       | 0.02 | "                         | "              |         |
| 10  | 26           | 00 56 28             | 56 28 | 1.7                                   | 0.02                       | 0.02 | "                         | "              |         |
| 11  | 28           | 00 — —               | 50 11 | 25.0                                  | —                          | 0.02 | Slow                      | "              |         |
| 12  | 29           | 16 30 31             | 30 32 | 9.7                                   | 0.33                       | 0.35 | "                         | "              |         |
| 13  | 31           | 18 17 10             | 17 09 | 2.7                                   | 0.02                       | 0.02 | Quick                     | "              |         |
| 14  | February 1   | 22 — —               | 36 22 | 9.6                                   | —                          | 0.05 | "                         | "              |         |
| 15  | 5            | 21 06 35             | 06 33 | 13.5                                  | 1.97                       | 3.11 | "                         | "              | Felt    |
| 16  | 6            | 21 09 33             | 09 32 | 10.5                                  | 0.50                       | 0.52 | "                         | "              | Felt    |
| 17  | 10           | 03 20 38             | 20 34 | 43.0                                  | 0.06                       | 0.22 | Slow                      | "              |         |
| 18  | 14           | 22 57 29             | 57 26 | 3.3                                   | 0.02                       | 0.02 | Quick                     | "              |         |
| 19  | 20           | 21 12 35             | 12 31 | 2.4                                   | 0.02                       | 0.02 | Slow                      | "              |         |
| 20  | 27           | 14 33 23             | 33 22 | 5.3                                   | 0.06                       | 0.05 | Quick                     | "              |         |
| 21  | 28           | 09 35 46             | 35 46 | 5.0                                   | 0.33                       | 0.30 | "                         | "              | Felt    |
| 22  | March 3      | 00 31 38             | 30 07 | 12.2                                  | 0.22                       | 0.27 | Slow                      | "              |         |
| 23  | 3            | 05 24 26             | 24 30 | 12.5                                  | 0.06                       | 0.07 | "                         | "              |         |
| 24  | 3            | 23 18 43             | 18 36 | 3.0                                   | 0.09                       | 0.07 | Quick                     | "              |         |
| 25  | 5            | 00 11 22             | 11 21 | 1.8                                   | 0.02                       | 0.02 | "                         | "              |         |
| 26  | 5            | 08 11 14             | 11 08 | 2.0                                   | 0.02                       | 0.03 | "                         | "              |         |
| 27  | 5            | 11 24 23             | 24 28 | 44.0                                  | 0.11                       | 0.32 | Slow                      | "              |         |
| 28  | 13           | 02 15 38             | 15 32 | 5.4                                   | 0.22                       | 0.17 | Quick                     | "              |         |
| 29  | 13           | 16 58 03             | 57 58 | 3.7                                   | 0.02                       | 0.02 | "                         | "              |         |
| 30  | 14           | 00 26 26             | 26 29 | 5.2                                   | 0.03                       | 0.03 | Slow                      | "              |         |
| 31  | 15           | 20 11 23             | 11 17 | 4.0                                   | 0.02                       | 0.02 | "                         | "              |         |
| 32  | 17           | 17 01 22             | 01 22 | 1.0                                   | 0.01                       | 0.01 | Quick                     | "              |         |
| 33  | 20           | 11 44 30             | 44 29 | 3.4                                   | 0.03                       | 0.04 | "                         | "              |         |
| 34  | 23           | 21 32 51             | 32 51 | 23.0                                  | 0.06                       | 0.05 | Slow                      | "              |         |
| 35  | 27           | 09 — —               | 01 —  | 4.5                                   | —                          | 0.37 | "                         | "              |         |
| 36  | 28           | 03 54 34             | 54 35 | 11.5                                  | 0.04                       | 0.05 | "                         | "              |         |
| 37  | 29           | 09 15 43             | 15 44 | 4.5                                   | 0.02                       | 0.02 | Quick                     | "              |         |
| 38  | 30           | 09 34 24             | 34 25 | 5.7                                   | 0.11                       | 0.11 | "                         | "              |         |
| 39  | April 2      | 20 07 23             | 07 26 | 5.1                                   | 0.02                       | 0.02 | Slow                      | "              |         |
| 40  | 3            | 23 44 14             | 44 11 | 2.9                                   | 0.08                       | 0.09 | Quick                     | "              |         |
| 41  | 7            | 10 19 35             | 19 35 | 5.5                                   | 0.02                       | 0.02 | Slow                      | "              |         |
| 42  | 8            | 00 58 52             | 58 51 | 11.0                                  | 1.67                       | 1.53 | Quick                     | "              |         |
| 43  | 8            | 01 51 17             | 51 17 | 1.8                                   | 0.01                       | 0.01 | "                         | "              |         |
| 44  | 8            | 02 17 46             | 17 41 | 4.9                                   | 0.09                       | 0.10 | "                         | "              |         |
| 45  | 8            | 04 49 47             | 49 43 | 5.5                                   | 0.17                       | 0.15 | "                         | "              |         |
| 46  | 8            | 04 57 49             | 57 41 | 2.0                                   | 0.01                       | 0.01 | "                         | "              |         |
| 47  | 8            | 07 45 49             | 45 47 | 5.1                                   | 0.11                       | 0.11 | "                         | "              |         |
| 48  | 8            | 09 55 17             | 55 13 | 3.5                                   | 0.03                       | 0.05 | Slow                      | "              |         |
| 49  | 9            | 05 24 58             | 24 54 | 5.0                                   | 0.11                       | 0.08 | "                         | "              |         |
| 50  | 19           | 17 00 33             | — —   | 16.0                                  | 3.94                       | —    | Quick                     | "              |         |
| 51  | 21           | 17 01 03             | 01 04 | 6.7                                   | 0.07                       | 0.05 | Slow                      | "              |         |
| 52  | 22           | 00 11 11             | 11 11 | 17.5                                  | 0.57                       | 0.58 | Quick                     | "              |         |
| 53  | 22           | 12 56 15             | 56 14 | 7.0                                   | 0.11                       | 0.12 | "                         | "              |         |
| 54  | 27           | 06 57 46             | 57 38 | 5.8                                   | 0.02                       | 0.02 | Slow                      | "              |         |
| 55  | 30           | 07 47 56             | 47 58 | 3.6                                   | 0.02                       | 0.02 | "                         | "              |         |
| 56  | May 3        | 09 49 56             | 49 57 | 15.0                                  | 0.39                       | 0.40 | Quick                     | "              |         |
| 57  | 5            | 15 25 40             | 25 39 | 23.0                                  | 0.06                       | 0.06 | Slow                      | "              |         |
| 58  | 13           | 05 24 20             | — —   | 30.0                                  | 0.07                       | —    | "                         | "              |         |
| 59  | 14           | 01 36 32             | — —   | 3.8                                   | 0.03                       | —    | "                         | "              |         |
| 60  | 15           | 10 40 15             | 40 12 | 5.4                                   | 0.11                       | 0.11 | "                         | "              |         |
| 61  | 18           | 00 — —               | 58 39 | 6.0                                   | —                          | 0.02 | "                         | "              |         |
| 62  | 26           | 09 08 50             | 08 51 | 9.0                                   | 0.11                       | 0.11 | "                         | "              |         |
| 63  | June 1       | 11 00 16             | 00 16 | 7.5                                   | 0.08                       | 0.08 | "                         | "              |         |
| 64  | 2            | 02 28 08             | 28 09 | 3.5                                   | 0.07                       | 0.05 | Quick                     | "              |         |
| 65  | 2            | 20 — —               | 07 42 | 3.0                                   | —                          | 0.04 | Slow                      | "              |         |
| 66  | 4            | 16 — —               | 29 17 | 2.8                                   | —                          | 0.11 | Quick                     | "              |         |
| 67  | 6            | 21 26 05             | 24 57 | 3.9                                   | 0.03                       | 0.03 | Slow                      | "              |         |
| 68  | 8            | 05 49 15             | 49 14 | 3.2                                   | 0.02                       | 0.02 | Quick                     | "              |         |
| 69  | 9            | 11 56 42             | 56 43 | 19.1                                  | 0.17                       | 0.17 | Slow                      | "              |         |
| 70  | 9            | 18 23 27             | 23 28 | 13.7                                  | 0.16                       | 0.16 | "                         | "              |         |

† Japanese Central Standard Time (9<sup>h</sup> east from Greenwich), reckoned from midnight.

SEISMOLOGICAL OBSERVATIONS AT MIZUSAWA.

TABLE A.

(Earthquakes)

| No.  | Date      |      | Time of Occurrence † |    |      |      | Duration of Total Earthquake | Maximum Range of Motion |      | Character of Motion | Intensity | Remarks |      |
|------|-----------|------|----------------------|----|------|------|------------------------------|-------------------------|------|---------------------|-----------|---------|------|
|      |           |      | (NS)                 |    |      | (EW) |                              | (NS)                    | (EW) |                     |           |         |      |
| 1908 |           | h    | m                    | s  | m    | s    | m                            | mm                      | mm   |                     |           |         |      |
| 71   | June      | 16   | 04                   | 00 | 26   | —    | —                            | 2.8                     | 0.03 | —                   | Quick     | Feeble  |      |
| 72   |           | 17   | 10                   | 30 | 08   | 30   | 10                           | 10.0                    | 0.11 | 0.10                | "         | "       |      |
| 73   |           | 19   | 06                   | 34 | 01   | 34   | 05                           | 2.3                     | 0.03 | 0.02                | "         | "       |      |
| 74   |           | 23   | 03                   | 39 | 04   | —    | —                            | 3.2                     | 0.06 | —                   | "         | "       |      |
| 75   |           | 25   | 03                   | 36 | 50   | 36   | 47                           | 7.4                     | 0.31 | 0.29                | Slow      | "       |      |
| 76   |           | 27   | 23                   | 22 | 27   | 22   | 27                           | 33.5                    | 0.20 | 0.20                | "         | "       |      |
| 77   |           | 28   | 12                   | 30 | 15   | 30   | 15                           | 9.5                     | 0.04 | 0.04                | "         | "       |      |
| 78   | July      | 6    | 17                   | 18 | 02   | 18   | 02                           | 4.9                     | 0.02 | 0.02                | "         | "       |      |
| 79   |           | 10   | 08                   | 19 | 55   | 19   | 54                           | 3.7                     | 0.01 | 0.01                | "         | "       |      |
| 80   |           | 11   | 15                   | 36 | 47   | 36   | 47                           | 3.0                     | 0.01 | 0.01                | Quick     | "       |      |
| 81   |           | 11   | 15                   | 43 | 07   | 43   | 03                           | 9.5                     | 1.67 | 1.22                | "         | "       | Felt |
| 82   |           | 14   | 06                   | 08 | 57   | 08   | 57                           | 40.0                    | 0.03 | 0.03                | Slow      | "       |      |
| 83   |           | 28   | 17                   | 36 | 13   | 36   | 12                           | 12.0                    | 0.33 | 0.35                | Quick     | "       |      |
| 84   | August    | 3    | 16                   | —  | —    | 23   | 13                           | 9.0                     | —    | 0.08                | "         | "       |      |
| 85   |           | 3    | 20                   | 17 | 59   | 17   | 53                           | 5.8                     | 0.06 | 0.07                | "         | "       |      |
| 86   |           | 8    | 02                   | 04 | 58   | —    | —                            | 3.7                     | 0.06 | —                   | Slow      | "       |      |
| 87   |           | 9    | 05                   | 56 | 52   | 56   | 52                           | 4.5                     | 0.08 | 0.05                | Quick     | "       |      |
| 88   |           | 11   | 10                   | 49 | 00   | 49   | 02                           | 9.3                     | 0.06 | 0.07                | Slow      | "       |      |
| 89   |           | 12   | 03                   | 40 | 11   | 40   | 11                           | 5.8                     | 0.11 | 0.09                | "         | "       |      |
| 90   |           | 12   | 13                   | 44 | 59   | 44   | 58                           | 10.9                    | 0.16 | 0.22                | "         | "       |      |
| 91   |           | 16   | 03                   | 23 | 13   | —    | —                            | 3.2                     | 0.11 | —                   | Quick     | "       | Felt |
| 92   |           | 17   | 19                   | 58 | 17   | 58   | 14                           | 93.0                    | 0.02 | 0.02                | Slow      | "       |      |
| 93   |           | 17   | 21                   | 31 | 34   | 31   | 37                           | 5.2                     | 0.08 | 0.09                | Quick     | "       | Felt |
| 94   |           | 20   | 19                   | 01 | 48   | 01   | 46                           | 4.0                     | 0.03 | 0.52                | Slow      | "       |      |
| 95   |           | 23   | 04                   | 20 | 37 ? | 21   | 06 ?                         | 19.5                    | 0.03 | 0.05                | "         | "       |      |
| 96   |           | 30   | 10                   | 07 | 52   | 07   | 49                           | 5.3                     | 0.06 | 0.05                | Quick     | "       |      |
| 97   | September | 5    | 3-4                  | —  | —    | —    | —                            | 9.0                     | 0.09 | 0.10                | "         | "       |      |
| 98   |           | 6    | 16                   | 55 | 04   | 55   | 05                           | 5.1                     | 0.04 | 0.04                | "         | "       |      |
| 99   |           | 13   | 13-14                | —  | —    | —    | —                            | —                       | —    | 0.02                | Slow      | "       |      |
| 100  |           | 16   | 14                   | 11 | 16   | 11   | 16                           | 10.0                    | 0.17 | 0.14                | Quick     | "       |      |
| 101  |           | 18   | 19                   | 39 | 07   | 39   | 06                           | 11.0                    | 0.06 | 0.05                | Slow      | "       |      |
| 102  |           | 21   | 15                   | —  | —    | 45   | 34                           | 60.0                    | —    | 0.10                | "         | "       |      |
| 103  |           | 25   | 22                   | 32 | 11   | 32   | 15                           | 12.8                    | 1.49 | 1.60                | Quick     | "       | Felt |
| 104  |           | 27   | 09                   | 43 | 53   | 43   | 56                           | 4.6                     | 0.03 | 0.03                | "         | "       |      |
| 105  |           | 28   | 03                   | 23 | 27   | 23   | 30                           | 3.0                     | 0.02 | 0.02                | "         | "       |      |
| 106  |           | 28   | 20                   | 52 | 41   | 52   | 41                           | 5.5                     | 0.11 | 0.15                | "         | "       |      |
| 107  | October   | 6    | 02                   | 25 | 12   | 25   | 12                           | 7.4                     | 0.61 | 0.62                | "         | "       | Felt |
| 108  |           | 17   | 23                   | 17 | 29   | 17   | 24                           | 6.5                     | 0.06 | 0.06                | "         | "       |      |
| 109  |           | 24   | 21                   | 56 | 29   | 56   | 30                           | 8.2                     | 0.08 | 0.12                | "         | "       |      |
| 110  |           | 25   | 06                   | —  | —    | 25   | 40                           | 4.0                     | —    | 0.03                | Slow      | "       |      |
| 111  |           | 25   | 11                   | 18 | 51   | 18   | 50                           | 1.7                     | 0.02 | 0.04                | Quick     | "       |      |
| 112  | November  | 2    | 14                   | —  | —    | 24   | 59                           | 90.0                    | —    | 0.20                | Slow      | "       |      |
| 113  |           | 2    | 16                   | —  | —    | 28   | 55                           | 3.6                     | —    | 0.02                | "         | "       |      |
| 114  |           | 5    | 05                   | 00 | 56   | 00   | 56                           | 1.0                     | 0.02 | 0.03                | Quick     | "       |      |
| 115  |           | 5    | 05                   | 58 | 40   | —    | —                            | 4.2                     | 0.07 | —                   | Slow      | "       |      |
| 116  |           | 6    | 16                   | 11 | 37   | 11   | 36                           | 110.0                   | 1.13 | 1.57                | "         | "       |      |
| 117  |           | 6    | 22                   | 50 | 02   | 50   | 07                           | 28.0                    | 0.07 | 0.15                | "         | "       |      |
| 118  |           | 9-10 | 23-1                 | —  | —    | —    | —                            | 2.5                     | —    | 0.03                | "         | "       |      |
| 119  |           | 11   | 22                   | 25 | 26   | 25   | 25                           | 60.0                    | ?    | 0.12                | "         | "       |      |
| 120  |           | 13   | 04                   | 53 | 40   | 53   | 42                           | 4.7                     | 0.06 | 0.10                | Quick     | "       |      |
| 121  |           | 19   | 14                   | 05 | 59   | —    | —                            | 22.0                    | 0.06 | —                   | Slow      | "       |      |
| 122  |           | 20   | 10                   | 58 | 47   | 58   | 48                           | 10.8                    | 0.08 | 0.08                | "         | "       |      |
| 123  |           | 22   | 16                   | 15 | 05   | 15   | 10                           | 18.5                    | 1.94 | 1.82                | Quick     | "       | Felt |
| 124  |           | 23   | 21                   | —  | —    | 49   | 23                           | 40.0                    | —    | 0.06                | Slow      | "       |      |
| 125  |           | 24   | 16                   | 16 | 12   | 16   | 20                           | 6.0                     | 0.06 | 0.09                | Quick     | "       |      |
| 126  |           | 27   | 14                   | 38 | 17   | 38   | 14                           | 3.2                     | 0.08 | 0.07                | "         | "       |      |
| 127  |           | 27   | 21                   | —  | —    | 55   | 18                           | 2.8                     | —    | 0.05                | Slow      | "       |      |
| 128  | December  | 2    | 20                   | 52 | 45   | 52   | 43                           | 7.5                     | 0.50 | 0.42                | Quick     | "       |      |
| 129  |           | 7    | 22                   | —  | —    | 37   | 13                           | 9.0                     | —    | 0.12                | Slow      | "       |      |
| 130  |           | 12   | 22                   | 02 | 26   | 02   | 25                           | 60.0                    | 0.69 | 1.30                | "         | "       |      |
| 131  |           | 13   | 03                   | 59 | 33   | 59   | 32                           | 40.0                    | 0.11 | 0.15                | "         | "       |      |
| 132  |           | 21   | 18                   | 43 | 52   | 43   | 55                           | 6.0                     | 0.02 | 0.02                | "         | "       |      |
| 133  |           | 26   | 21                   | 45 | 12   | 45   | 08                           | 1.2                     | 0.02 | 0.02                | Quick     | "       |      |
| 134  |           | 28   | 13                   | 33 | 14   | 33   | 14                           | 60.0                    | 0.33 | 1.89                | Slow      | "       |      |
| 135  |           | 28   | 17                   | 09 | 25   | 09   | 28                           | 8.2                     | 0.17 | 0.17                | "         | "       |      |
| 136  |           | 30   | 06                   | 03 | 57   | —    | —                            | 3.0                     | 0.10 | —                   | Quick     | "       |      |
| 137  |           | 31   | 03                   | 46 | 07   | 46   | 05                           | 7.1                     | 0.38 | 0.35                | "         | "       | Felt |

