

British Association for the Advancement of Science.

Circular No. 6, issued by the Seismological Committee, Professor J. W. JUDD, C.B., F.R.S. (Chairman), Mr. JOHN MILNE, F.R.S., *Shide, Isle of Wight* (Secretary).

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I. General Notes on Registers from Similar Horizontal Pendulums
(*Milne type*).

THE following registers are continuous with those published by the Seismological Investigation Committee in their first five circulars and in the Reports of the Association, 1896 to 1899.

In the next circular these registers should be continued up to December 31, 1902, and, so far as possible, be supplemented by corresponding registers from the following places : Paisley, Strassburg, Coimbra, Beirut, Tokio, Vizagapatam, Ceylon, Mexico, Swarthmore (Philadelphia), Melbourne, Sydney, Arequipa, Honolulu, Tifis, Taschkent, and Irkutsk.

If observers at these and other places will kindly send a copy of their register, together with copies of their more important seismograms, to the Secretary of the Seismological Investigation Committee, British Association, Burlington House, London, W., as early as possible after June 30, and again after December 31 of each year, the interval of time which must elapse before they receive copies of the registers of co-workers in various parts of the world will be considerably reduced.

The time employed is Greenwich mean time (civil) expressed in hours, minutes, and in decimals of minutes.

Amplitude indicates half of the complete range of the maximum motion and is expressed in millimetres. Values less than one millimetre refer to the thickening of the line and indicate half its width.

As 1° turn of the calibrating screw in the bed-plate of the instrument causes a tilt of 1''·9, and as this is accompanied by a measurable displacement of the outer end of the boom, it is easy to determine the angular value corresponding to a one millimetre displacement. This quantity should be stated at the end of each register.

At *Shide, Kew, Bidston, and Edinburgh* the instruments are at present so adjusted that a 4° turn of the screw results in a displacement of the outer end of the boom of 14 mm. One millimetre displacement therefore equals 0''·55.

II. Registers.

The Register from Shide, Newport, Isle of Wight, England.
Observer, JOHN MILNE. Assistant, SHINOBU HIROTA.

| No. | Date | P.T. Commence | | L.W. Commence | | Max. | Max. Amplitude | Duration | Remarks |
|--------------|--------|---------------|-------|---------------|------|--------------------|----------------|----------|-------------------|
| | | H. | M. | H. | M. | | | | |
| 1902. | | | | | | | | | |
| 572 | Jan. 1 | 5 | 36·2 | 6 | 3·9 | 6 16·2 | 1·0 | 1 55 | — |
| 573 | " 9 | 0 | 32·8 | — | — | — | 0·25 | 0 5 | — |
| 574 | " 12 | 22 | 42·9 | — | — | 23 41·3 | 0·5 | 1 10 | — |
| 575 | " 14† | 0 | 35·3 | — | — | — | 0·25 | 0 10 | — |
| 576 | " 17 | 0 | 13·9 | — | — | — | 0·5 | 0 38 | — |
| 577 | " 17 | 20 | 31·3 | — | — | — | 0·25 | 0 8 | — |
| 578 | " 18 | 23 | 44·6 | — | — | — | 0·25 | 0 45 | — |
| 579 | " 20 | 1 | 38·7 | — | — | — | 0·25 | 0 5 | — |
| 580 | " 21 | 22 | 2·4 | — | — | — | 0·25 | 0 25 | — |
| 581 | " 24 | 23 | 47·4 | — | — | — | 0·5 | 2 0 | — |
| 582 | " 28 | 19 | 1·0 | — | — | — | 0·25 | 0 45 | — |
| 583 | " 29 | 1 | 51·2 | 2 | 0·4 | — | 0·5 | 0 45 | — |
| 584 | " 30 | 14 | 9·5 | 14 | 49·0 | 14 55·2 | 1·0 | 1 20 | — |
| 585 | " 31 | 1 | 53·1 | — | — | 2 42·4 | 1·0 | 1 0 | — |
| 586 | Feb. 9 | 7 | 54·8 | — | — | 8 17·4 | 0·5 | 1 40 | — |
| 587 | " 9 | 10 | 35·3 | — | — | — | 0·5 | 1 30 | — |
| 588 | " 13 | 9 | 46·4 | — | — | 10 4·9 | 2·0 | 1 10 | — |
| 589 | " 17 | 0 | 45·5 | 0 | 53·7 | 1 20·3 | 1·0 | 1 30 | — |
| 590 | " 25 | 15 | 58·0 | — | — | — | 0·25 | 0 44 | — |
| 591 | " 26 | 15 | 57·9 | — | — | — | 0·25 | 0 5 | — |
| 592 | Mar. 1 | 1 | 9·4 | — | — | 1 11·5 | 0·5 | 0 25 | — |
| 593 | " 5 | 19 | 6·2 | 19 | 26·0 | 19 26·7 | 0·75 | 1 30 | — |
| 594 | " 6 | 19 | 0abt. | — | — | — | — | — | — |
| 595 | " 9 | 7 | 50·1 | — | — | — | 0·25 | 0 25 | — |
| 596 | " 12 | 15 | 40·7 | — | — | — | 0·25 | 0 30 | — |
| 597 | " 17 | 12 | 5·7 | — | — | — | 0·5 | 0 25 | — |
| 598 | " 20 | 2 | 53·6 | — | — | — | 0·25 | 0 10 | — |
| 599 | " 22 | 22 | 56·1 | 23 | 1·0 | 23 6·0 | 1·0 | 0 50 | — |
| 600 | " 24 | 18 | 28·8 | — | — | — | 0·25 | 0 20 | — |
| 601 | " 28 | 15 | 0·6 | 15 | 4·0 | 15 21·2 15 57·1 | 1·0 | 2 20 | — |
| 602 | " 31 | — | — | — | — | — | — | — | Not recorded. |
| 603 | Apr. 1 | — | — | — | — | — | — | — | See next list. |
| 604 | " 7 | 13 | 37·8 | — | — | — | 0·25 | 0 5 | — |
| 605 | " 12 | 0 | 16·9† | — | — | — | 0·5 | 1 5 | Possibly 2 shocks |
| 606 | " 19 | 2 | 35·4 | 2 | 36·8 | 3 19·2 | 6·0 | 3 0 | — |
| 607 | May 2 | 11 | 55·1 | — | — | — | 0·25 | 0 5 | — |
| 608 | " 2 | 12 | 19·7 | — | — | — | 1·0 | 0 40 | — |

The Register from Shide, Newport, Isle of Wight, England—continued.

| No. | Date | P.T. Commence | L.W. Commence | Max. | Max. Amplitude | Duration | Remarks |
|-----|---------|-----------------|-----------------|-----------------|----------------|---------------|---------------------|
| 609 | May 8 | H. M. 2 49.5 | H. M. 2 54.2 | H. M. 3 21.8 | MM. 1.7 | H. M. 1 12 | First commencement. |
| | | | | | | | Uncertain. |
| 610 | " 25 | 3 12.7 | — | — | — | 1 25 | — |
| 611 | " 26 | 5 28.2 | 5 41 | — | 0.5 | 0 20 | — |
| 612 | June 11 | 4 28.1 | 4 34 | — | 0.75 | 0 35 | — |
| 613 | " 16 | 6 50.3 | — | 6 57.0 | 1.0 | 0 40 | — |
| 614 | " 22 | 2 15.4 | — | — | 0.5 | 0 4 | — |
| | | 3 34.6 | — | — | 0.75 | 0 6 | — |

Period of Pendulum 17 s. 1 mm. amplitude = 0' 55.

Register from Shide of a pair of pendulums oriented east-west and north-south. In Circular No. 5 these which record photographically are referred to as the Yarrow Pendulums. The first entries refer to the east-west motion, and the second to north-south motion. The first entries, therefore, correspond to those in the preceding register.

| Shide No. | Date | P.T. Commence | L.W. Commence | Max. | Max. Amplitude | Duration | Remarks |
|-----------|---------|-----------------|-----------------|-----------------|----------------|---------------|---------------------|
| 572 | Jan. 1 | H. M. 5 36.5 | H. M. 5 54.8 | H. M. 6 29.3 | MM. 2.0 | H. M. 2 20 | — |
| 572 | | 5 32.4 | 5 48.9 | 6 5.5 | 3.0 | 3 0 | — |
| | | | | 6 13.8 | | | — |
| | | | | 6 21.0 | | | — |
| 573 | " 8 | 0 33.1 | — | — | 0.25 | 0 10 | — |
| 573 | | 1 27.9 | — | — | — | — | — |
| 574 | " 12 | 22 51.5 | — | 23 32.9 | 0.5 | 1 0 | — |
| | | | | 23 38.1 | | | — |
| 574 | | 22 49.4 | 23 35.5 | 23 38.1 | 1.0 | 1 5 | — |
| 575 | | — | — | — | — | — | Not visible |
| 576 | " 17 | 0 13.0 | — | — | 0.25 | 0 10 | — |
| 576 | | 0 13.0 | — | — | 0.25 | 0 45 | — |
| 577 | " 17 | 20 32.6 | — | — | 0.25 | 0 5 | — |
| 577 | | 20 32.6 | — | — | 0.25 | 0 5 | — |
| 578 | " 18 | 22 7.8 | — | — | 0.5 | 2 0 | — |
| 578 | | 22 7.8 | — | — | 0.5 | 2 0 | — |
| 579 | " 20 | — | — | — | — | — | Not working |
| 580 | " 21 | 22 3.5 | — | — | 0.5 | 0 35 | — |
| 580 | | 22 3.5 | — | — | 0.5 | 0 35 | — |
| 581 | " 24 | 22 50.0 | 24 34.5 | 24 50.0 | 2.0 | 3 50 | — |
| 581 | | 22 50.0 | 24 34.5 | 24 50.0 | 2.0 | 2 30 | — |
| 582 | " 28 | 19 3.1 | — | — | 0.5 | 0 50 | — |
| 582 | | 19 14.5 | — | — | 0.25 | 0 20 | — |
| 583 | " 29 | 1 45.5 | 1 51.7 | 1 58.0 | 0.75 | 0 45 | — |
| 583 | | 1 42.4 | 1 51.7 | 2 5.0 | 1.0 | 0 55 | — |
| 584 | " 30 | 14 12.3 | — | — | 0.5 | 1 5 | — |
| 584 | | 14 12.3 | — | — | 0.6 | 1 0 | — |
| 585 | " 31 | 2 33.7 | — | — | 0.25 | 0 20 | — |
| 585 | | 1 54.4 | — | — | 0.4 | 1 0 | — |
| 586 | | — | — | — | — | — | Air tremors |
| 587 | | — | — | — | — | — | Air tremors |
| 588 | Feb. 13 | 9 44.4 | — | 10 8.0 | 1.0 | 1 0 | — |
| 588 | | 9 44.4 | — | 10 8.0 | 1.0 | 1 0 | Approx. Air tremors |
| 589 | | — | — | — | — | — | Not working |

1†—2

The Register from Shide, Isle of Wight, England—continued.

| No. | Date | P.T. Commence | L.W. Commence | Max. | Max. Amplitude | Duration | Remarks |
|-----|---------|------------------|---------------|------------|----------------|---------------|----------------------|
| 590 | Feb. 25 | H. M. 15 50.7 | H. M. — | H. M. — | MM. 0.25 | H. M. 0 10 | — |
| 590 | | 16 38.3 | — | — | 0.25 | 0 15 | — |
| 591 | " 26 | 16 14.5 | — | — | 0.25 | 0 5 | — |
| 591 | | 16 55.9 | — | — | 0.25 | 0 5 | — |
| 592 | Mar. 1 | 0 52.9 | — | — | 0.25 | 0 30 | — |
| 592 | | 1 0.1 | — | — | 0.25 | 0 40 | — |
| 593 | " 5 | 18 56.8 | 1 4.2 | 1 12.5 | 1.0 | 2 0 | — |
| 593 | | 19 11.6 | 19 20.6 | — | 0.5 | > 2 0 | — |
| 594 | " 6 | 18 46.6 | — | — | 0.25 | 0 10 | — |
| 594 | | 18 46.6 | — | — | 0.25 | 0 10 | — |
| 595 | " 9 | 8 0.7 | — | — | 0.25 | 0 5 | — |
| 595 | | — | — | — | — | — | Air tremors. |
| 596 | " 12 | 14 50.3 | — | — | 0.25 | 0 35 | — |
| 596 | | 15 36.6 | — | — | 0.25 | > 2 0 | — |
| 597 | " 17 | 12 8.8 | — | — | 0.25 | 0 5 | — |
| 597 | | 12 5.7 | — | — | 0.25 | 0 7 | — |
| 598 | " 20 | 3 3.3 | — | — | 0.25 | 0 5 | — |
| 598 | | — | — | — | — | — | Air tremors. |
| 599 | " 22 | 23 0.2 | 23 3.0 | 23 5.0 | 0.75 | 0 35 | — |
| 599 | | 22 49.9 | 22 59.0 | 23 8.0 | 2.5 | 1 15 | — |
| 600 | " 24 | — | — | — | — | — | Not visible. |
| 600 | | 18 19.7 | — | — | 0.25 | 0 30 | — |
| 601 | " 28 | 14 23.8 | 15 3.3 | 15 20.7 | 1.2 | 2 20 | — |
| 601 | | 15 4.2 | — | 15 50.6 | 1.2 | 2 45 | — |
| 602 | " 31 | 8 21.4 | — | — | 0.25 | 0 7 | — |
| 602 | | — | — | — | — | — | Not visible. |
| 603 | April 1 | 9 15.2 | — | — | 0.25 | 0 5 | — |
| 603 | | — | — | — | — | — | Barely visible. |
| 604 | " 7 | 13 23.6 | — | — | 0.25 | 0 5 | — |
| 604 | | — | — | — | — | — | Barely visible. |
| 605 | " 12 | — | — | — | — | — | Barely visible. |
| 605 | | 0 13.9 | — | 0 18.1 | 0.75 | 1 25 | Probably two shocks. |
| 606 | " 19 | 2 35.5 | 2 46.9 | 3 18.7 | 2.5 | 1 30 | — |
| 606 | | 2 35.5 | 2 46.9 | 3 13.0 | 8.0 | 3 0 | — |
| 607 | May 2 | 12 27.4 | — | — | 1.0 | 0 12 | — |
| 607 | | — | — | — | — | — | Not visible. |
| 608 | " 2 | 12 19.8 | — | — | 0.75 | 0 40 | — |
| 608 | | — | — | — | — | — | Barely visible. |
| 609 | " 8 | 3 14.2 | — | 3 22.0 | 1.0 | 0 28 | — |
| 609 | | 3 19.2 | — | — | 0.25 | 0 12 | — |
| 610 | " 25 | 17 31.2 | — | — | 0.5 | 0 20 | — |
| 610 | | — | — | — | — | — | Not visible. |
| 611 | " 26 | — | — | — | — | — | Air tremors. |
| 611 | | 4 25.3 | 4 27.0 | — | 0.5 | 0 12 | — |
| 612 | June 11 | 6 47.9 | — | 6 54.0 | 1.5 | 0 40 | With air tremors |
| 612 | | 6 50.2 | — | — | 0.5 | 0 25 | — |
| 613 | " 16 | 2 18.2 | — | — | 0.5 | 0 8 | With air tremors. |
| 613 | | — | — | — | — | — | Not visible. |
| 614 | " 22 | 3 35.6 | — | — | 0.75 | — | With air tremors. |
| 614 | | 3 35.6 | — | — | 0.25 | 0 5 | — |

Pendulum periods 572 to 583 inclusive E W 17° N S 15°

| | | | | | |
|---|---|------------|---|----|----|
| " | " | 584 to 589 | " | 10 | 10 |
| " | " | 590 to 606 | " | 12 | 16 |
| " | " | 607 to 609 | " | 17 | 12 |
| " | " | 610 to 614 | " | 20 | 10 |

Register from National Physical Laboratory (Kew Observatory). Director, R. T. GLAZEBROOK, Sc.D., F.R.S. Superintendent of Observatory Department, C. CHREE, Sc.D., F.R.S. Observer, E. G. CONSTABLE.

| No. | Date | P.T. Commence | L.W. Commence | Max. | Max. Amplitude | Duration | Remarks | |
|--------------|----------|---|---------------|--------------|----------------|------------|---|--|
| 1902. | | | | | | | | |
| 347 | Jan. 1 | H. M. 5 41.8 | H. M. 6 8.2 | H. M. 6 21.4 | MM. 1.0 | H. M. 1 45 | P.T. very small | |
| 348 | " 2 | 15 26.8 | — | — | 0.25 | 0 6 | — | |
| 349 | " 8 | 12 26.2 | — | — | 0.25 | 0 7 | — | |
| 350 | " 12 | 22 43.0 | — | 223 47.0 | 0.25 | 1 10 | Ill-defined throughout | |
| 351 | " 17 | 0 17.0 | — | — | 0.25 | 0 4 | — | |
| 352 | " 18 | 23 57.5 | — | — | 0.25 | 0 21 | — | |
| 353 | " 21 | 22 4.7 | — | — | 0.25 | 0 14 | — | |
| 354 | " 24 | 15 44.4 | — | 15 47.0 | 0.5 | 0 8 | Somewhat doubtful movement | |
| 355 | " 24 | 23 49.0 | — | 1 4.3 | 0.5 | 2 5 | Large number of small oscillations | |
| 356 | " 28 | 19 17.3 | — | — | 0.25 | 0 80 | — | |
| 357 | " 29 | 1 56.7 | — | — | 0.25 | 0 28 | — | |
| 358 | " 30 | 14 23.0 | 14 48.8 | 14 55.0 | 1.0 | 1 12 | P.T. ill-defined | |
| 359 | " 31 | 2 3.0 | — | 2 44.0 | 0.5 | 0 52 | Slight throughout | |
| 360 | Feb. 9 | 8 4.2 | — | — | 0.25 | 1 20 | Ill-defined throughout | |
| 361 | " 13 | 9 51.0 | — | — | 1.0 | 0 40 | Total duration uncertain | |
| 362 | " 17 | 0 49.5 | 1 8.0 | 1 18.2 | 0.75 | 1 10 | — | |
| 363 | Mar. 1 | 1 9.2 | — | — | 0.5 | 0 14 | — | |
| 364 | " 5 | 19 26.2 | — | — | 0.5 | 1 10 | — | |
| 365 | " 9 | 7 54.2 | — | — | 0.25 | 0 16 | — | |
| 366 | " 12 | 15 44.5 | — | — | 0.25 | 0 20 | — | |
| 367 | " 13 | 19 56.3 | — | — | 0.25 | 0 21 | — | |
| 368 | " 20 | 2 51.8 | — | — | 0.25 | 0 8 | — | |
| 369 | " 22 | 22 56.5 | 23 3.0 | 23 4.5 | 0.6 | 0 48 | — | |
| | " 22 | A number of small movements between but character doubtful. | | | | 11 h. | 25 m. and 12 h. 48 m. | |
| 370 | " 24 | 13 33.0 | — | — | 0.25 | 0 6 | — | |
| 371 | " 28 | 15 3.2 | 15 6.0 | 15 58.8 | 0.7 | 1 30 | — | |
| 372 | April 12 | 0 17.6 | — | — | 0.5 | 0 22 | Possible max. at Oh. 22m. | |
| 373 | " 12 | 0 53.0 | — | — | 0.5 | 0 35 | Possible max. at 1h. 5m. | |
| 374 | " 19 | 2 36.2 | 2 45.8 | 3 10.1 | 7.0 | 2 55 | Large and well-marked oscillation. Origin, Guatemala. | |
| 375 | May 2 | 11 58.5 | — | 12 32.0 | 0.7 | 0 26 | — | |
| 376 | " 8 | 3 8.5 | 3 16.0 | 3 18.2 | 0.6 | 0 32 | — | |
| 377 | " 26 | 4 29.0 | — | — | 0.25 | 0 11 | Commencement uncertain | |
| 378 | June 11 | 6 41.6 | 6 50.8 | 6 54.9 | 1.0 | 0 34 | P.T. very slight | |

Scale value up to May 12, 1 mm. amplitude = 0".8.

On May 12 scale was altered, in accordance with Professor Milne's request, so as to make 1" on test screw = 3.5 mm.

After May 12, 1 mm. amplitude = 0".55, and period of boom = 18.5 secs.

Register from Liverpool Observatory, Bidston. Director, W. E. PLUMMER.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Duration | Remarks |
|--------------|--------|---------------|---------------|--------------|------------|----------------|------------|--|
| 1902. | | | | | | | | |
| 130 | Jan. 1 | H. M. 6 13.6 | H. M. 6 31.9 | H. M. 6 31.9 | H. M. 7 23 | MM. 0.5 | H. M. 1 10 | Probably 2 earthquakes. |
| 131 | " 9 | 19 18.2 | — | 19 58.0 | 12 35 | 2.1 | 3 17 | — |
| 132 | " 12 | 0 28.4 | — | 0 31.5 | — | 0.5 | 2 7 | — |
| 133 | " 17 | 22 61.5 | — | 23 40.3 | — | 0.7 | 1 3 | — |
| 134 | " 17 | 0 15.3 | — | 0 42.6 | — | 0.5 | 0 29 | — |
| 135 | " 17 | 20 20.2 | — | 20 28.7 | — | 0.4 | 0 26 | — |
| 136 | " 18 | 23 44.9 | — | 0 24.3 | — | 0.7 | 0 47 | — |
| 137 | " 20 | — | — | 1 39 | — | — | 0 16 | — |
| 138 | " 21 | 22 0.0 | — | 22 23.8 | — | 0.5 | 0 41 | — |
| 139 | " 24 | — | — | 11 30 | — | — | — | Line thickening. |
| 140 | " 24 | 23 49.2 | — | 0 65.3 | — | 2.0 | 2 49 | — |
| 141 | " 25 | 5 20 | — | 5 29 | — | — | 0 10 | Small. |
| 142 | " 26 | 10 6 | — | 10 47.7 | — | 0.4 | 0 62 | — |
| 143 | " 28 | 18 59.6 | — | 19 32.0 | — | 0.6 | 0 63 | — |
| 144 | " 29 | 1 43.6 | — | 2 1.7 | — | 0.4 | 0 32 | — |
| 145 | " 30 | 14 21.6 | — | 15 1.2 | — | 1.5 | 1 28 | — |
| 146 | " 31 | 2 2.7 | — | 2 29.0 | — | 1.1 | 0 57 | — |
| 147 | Feb. 4 | 0 34 | — | 1 42 | — | 0.5 | 1 16 | Time uncertain; hour lines not recorded. |
| 148 | " 9 | 7 55 | — | 8 50 | — | 1.0 | 1 40 | — |
| 149 | " 10 | 10 42 | — | 12 12 | — | 1.2 | 2 6 | — |
| 150 | " 13 | 9 49.8 | — | 10 6.7 | — | — | — | Watch wound at this time. |
| 151 | " 13 | 16 64 | — | 16 58 | — | 0.3 | 0 10 | — |
| 152 | " 16 | 10 55.7 | — | 10 58.3 | — | — | 0 14 | Slight. |
| 153 | " 16 | — | — | 23 22 | — | — | — | Slight. |
| 154 | " 17 | 0 40.1 | — | 1 23.2 | — | 2.2 | 1 42 | — |
| 155 | " 20 | 16 50 | — | 18 0 | — | — | — | Lines tremulous possibly A.T. |
| 156 | " 24 | 5 44.3 | — | 5 47.0 | — | — | 0 14 | Slight. |
| 157 | " 25 | — | — | 10 34 | — | — | 0 15 | — |
| 158 | " 25 | 16 34.2 | — | 16 45.0 | — | — | 0 16 | — |
| 159 | " 26 | — | — | 15 58 | — | — | — | Time uncertain. |
| 160 | Mar. 1 | 1 5.0 | — | 1 9.3 | — | 0.6 | 0 19 | — |
| 161 | " 4 | 17 14.3 | — | 17 18.0 | — | — | 0 6 | Small. |
| 162 | " 5 | 19 16 | — | 19 27 | — | 0.5 | 0 51 | Time uncertain. |
| 163 | " 5 | 19 51 | — | 19 59 | — | 0.8 | 0 45 | Possible continuation of preceding. |
| 164 | " 5 | — | — | 22 54 | — | — | — | Vague tremors. |
| 165 | " 9 | 7 54 | 8 1 | 8 6 | — | 0.4 | 0 13 | — |
| 166 | " 10 | — | — | 5 10 | — | — | — | Uncertain. |
| 167 | " 10 | 11 18 | — | 12 10 | — | — | — | — |
| 168 | " 11 | — | — | 20 0 | — | — | — | — |
| 169 | " 12 | — | — | 9 4 | — | — | — | Bad photography. |
| 170 | " 14 | 22 10 | — | 22 50 | — | — | 0 10 | Line tremulous. |
| 171 | " 17 | 12 3 | — | 12 10 | — | 0.3 | 0 15 | — |
| 172 | " 20 | 2 28 | 2 48.0 | 2 56.4 | — | 0.3 | 0 45 | — |
| 173 | " 20 | — | — | 18 57 | — | — | — | Doubtful. |
| 174 | " 22 | 22 54.3 | 23 8.9 | 23 10.2 | — | 1.0 | 0 23 | — |
| 175 | " 24 | 18 20.7 | — | 18 35.3 | — | 0.4 | 0 24 | — |
| 176 | " 25 | 4 15.1 | — | 4 18.7 | — | — | 0 10 | Small. |
| 177 | " 25 | — | — | 10 0 | — | — | — | Line thickening. |
| 178 | " 28 | 15 2.5 | — | 15 50.2 | — | 0.6 | 1 7 | — |
| 179 | " 31 | 4 34 | — | 4 44 | — | — | — | Doubtful. |
| 180 | Apr. 3 | — | — | 17 30 | — | — | — | Line tremulous. |
| 181 | " 7 | 13 28 | — | 13 49.3 | — | — | — | Small, but distinct. |
| 182 | " 9 | — | — | 8 15 | — | — | — | Tremulous, perhaps A.T. |
| 183 | " 11 | 23 20.2 | — | 23 22.0 | — | — | 0 13 | End uncertain. |
| 184 | " 16 | 2 16 | — | — | 4 0± | — | — | Long continued small disturbance. |
| 185 | " 19 | 2 35.0 | — | 3 15.1 | — | 3.7 | 1 49 | — |
| 186 | " 19 | 10 1.6 | — | 10 9.0 | — | — | 0 12 | — |
| 187 | " 21 | 18 37.3 | — | 18 48.2 | — | 0.3 | 0 24 | — |
| 188 | " 25 | 23 38.4 | — | 23 50.0 | — | 0.3 | 0 27 | — |
| 189 | " 26 | — | — | 8 5 | — | — | — | Uncertain. |
| 190 | May 2 | 11 52.3 | — | 12 22.2 | — | 0.6 | 0 36 | — |
| 191 | " 6 | — | — | 2 58 | — | — | 0.7 | Small. |
| 192 | " 8 | 3 0.4 | — | 3 21.5 | — | 0.8 | 0 44 | — |
| 193 | " 11 | — | — | 16 22 | — | — | — | — |
| 194 | " 12 | — | — | 14 52 | — | — | 0 7 | — |

Register from Liverpool Observatory, Bidston—continued.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Duration | Remarks |
|-----|--------|---------------|---------------|---------|-------|----------------|----------|--|
| | | H. M. | H. M. | H. M. | H. M. | MM. | H. M. | |
| 194 | May 25 | 17 50.7 | — | 17 39.6 | — | 0.3 | 0 28 | — |
| 195 | " 26 | 4 24.2 | — | 4 51.8 | — | 0.8 | 0 13 | — |
| 196 | " 26 | 12 41.8 | — | 12 48.0 | — | — | 0 8 | — |
| 197 | " 27 | 23 9.0 | — | 23 21.5 | — | — | 0 16 | — |
| 198 | " 28 | 2 9.4 | — | 2 16.3 | — | — | 0 28 | Small. |
| 199 | " 28 | 4 30 | — | — | 6 0 | — | — | Line tremulous. |
| 200 | " 28 | 13 18.1 | — | 13 22.0 | — | — | 0 8 | Possibly insect. |
| 201 | " 31 | 9 30 | — | — | — | — | — | Roll changed at 9h. 40m. Not seen on the new roll. |
| 202 | June 5 | 20 33.0 | — | 20 53.7 | — | — | 0 31 | Small. |
| 203 | " 7 | 22 42 | — | — | 22 58 | — | — | Shortly after change of roll. |
| 204 | " 8 | 13 50.4 | — | 14 7.7 | — | 0.4 | 0 35 | — |
| 205 | " 10 | 4 47.7 | — | 4 32.2 | — | — | 0 18 | Small. |
| 206 | " 11 | 6 30.2 | 6 39.0 | — | — | — | 1 22 | — |
| 207 | " 15 | 13 33.0 | — | 13 36.6 | — | — | 0 22 | — |
| 208 | " 16 | 2 16.6 | — | — | — | — | 0 10 | — |
| 209 | " 21 | 7 54 | — | — | 8.11 | — | — | Small and doubtful |
| 210 | " 22 | 3 33.9 | — | 3 39.2 | — | 0.4 | 0 14 | — |
| 211 | " 26 | — | — | 6 40 | — | — | — | Doubtful. |

Jan. 1 to May 30—Value of scale 1 mm. = 0".83.
May 30 to June 30— " " 1 mm. = 0".5.

Register from Royal Observatory, Edinburgh. Director, Dr. RALPH COPELAND. Observer, THOMAS HEATH.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Duration | Remarks |
|--------------|---------|---------------|---------------|---------|---------|----------------|----------|--------------------------------------|
| | | H. M. | H. M. | H. M. | H. M. | MM. | H. M. | |
| 1902. | | | | | | | | |
| 124 | Jan. 1 | 6 41.2 | 6 7.5 | 6 9.0 | 7 36.0 | 0.9 | 1 54.8 | Occasional small A.T.'s. |
| " | " 1-5 | — | — | — | — | — | — | Frequent A.T.'s. |
| " | " 7-13 | — | — | — | — | — | — | Possibly A.T. |
| 125 | " 12-13 | 22 50.5 | — | 23 39.0 | 0 29.0 | 0.25 | 1 38.5 | Small zigzag. |
| 126 | " 16 | 23 49.5 | — | — | 23 45.5 | — | 0 3.0 | — |
| 127 | " 17 | 0 15.5 | — | 0 16.5 | 0 20.0 | 0.3 | 0 4.5 | — |
| 128 | " 18 | 7 41.5 | — | — | 7 44.0 | — | 0 2.5 | — |
| 129 | " 18-19 | 23 46.5 | — | 0 17.0 | 0 33.0 | 0.5 | 0 45.5 | — |
| 130 | " 21 | 22 5.0 | — | 22 27.0 | 22 46.5 | 0.25 | 0 41.5 | — |
| 131 | " 24-25 | 23 48.5 | 23 52.5 | 1 3.5 | 2 7.0 | 0.5 | 2 18.5 | — |
| " | " 24-25 | — | — | — | — | — | — | Frequent A.T.'s. |
| 132 | " 28 | 19 17.5 | — | 19 28.0 | 20 0.0 | 1.0 | 0 42.5 | — |
| 133 | " 29 | 1 52.0 | 2 0.5 | 2 3.0 | 2 30.5 | 0.4 | 0 38.5 | — |
| 134 | " 30 | 14 23.0 | 14 43.0 | 14 59.5 | 15 47.0 | 0.8 | 1 24.0 | — |
| 135 | " 31 | 2 4.0 | 2 27.0 | 2 37.0 | 3 5.5 | 0.5 | 1 1.5 | — |
| 136 | Feb. 9 | 8 4.5 | — | — | 12 40.0 | 0.25 | 4 35.5 | Nearly constant; slight disturbance. |
| 137 | " 13 | 9 48.5 | 9 57.5 | 10 6.8 | 11 7.0 | 2.5 | 1 18.5 | — |
| 138 | " 17 | 0 50.0 | 1 13.0 | 1 23.0 | 2 38.5 | 2.5 | 1 48.5 | A.T.'s frequent. Feb. 15-17. |
| 139 | March 1 | 0 50.0 | 1 8.0 | 1 8.5 | 1 46.0 | 0.5 | 0 55.0 | — |
| 140 | " 5 | 19 25.0 | 19 52.0 | 19 59.5 | 21 8.0 | 0.6 | 1 43.0 | — |
| 141 | " 9 | 8 5.0 | — | — | 8 13.0 | — | 0 8.0 | Thickening. |
| 142 | " 12 | 9 3.0 | — | — | 9 8.0 | — | 0 5.0 | — |
| 143 | " 19 | 16 47.5 | — | — | 16 50.0 | — | 0 2.5 | Zigzag. |
| " | " 20-22 | — | — | — | — | — | — | A.T.'s frequent. |
| 144 | " 22 | 22 55.5 | 22 59.8 | 23 3.0 | 23 53.5 | 1.0 | 0 68.0 | — |
| 145 | " 24 | 18 28.0 | — | — | 19 4.0 | — | 0 38.0 | Small tremors. |
| 146 | " 25 | 4 14.5 | — | 4 24.0 | 4 34.0 | 0.2 | 0 19.5 | — |
| 147 | " 28 | 15 4.0 | 15 14.0 | 15 16.5 | 17 18.0 | 0.6 | 2 9.0 | — |
| " | " 31 | — | — | — | — | — | — | A.T.'s frequent. |

Register from Royal Observatory, Edinburgh—continued.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Duration | Remarks |
|-----|----------|---------------|---------------|---------|---------|----------------|----------|---------------------------|
| | | H. M. | H. M. | H. M. | H. M. | MM. | H. M. | |
| 148 | April 12 | 0 19 | 0 54.5 | 1 3.5 | 1 34.0 | 0.4 | 1 15.0 | — |
| 149 | " 19 | 2 36.0 | 2 45.5 | 3 14.5 | 5 24.5 | 8.4 | 2 48.5 | — |
| 150 | " 21 | 18 44.5 | — | 18 57.0 | 19 2.5 | 0.2 | 0 18.0 | — |
| 151 | May 2 | 11 52.0 | 12 20.0 | 12 31.5 | 12 57.0 | 0.35 | 1 5.0 | — |
| 152 | " 8 | 3 0.0 | 3 11.5 | 3 16.5 | 3 47.5 | 0.6 | 0 47.5 | — |
| 153 | " 21 | 14 5.0 | — | — | 20 31.0 | — | — | Line rough. |
| 154 | " 25 | 17 25.0 | — | — | 18 5.0 | — | — | — |
| 155 | " 26 | 4 24.5 | 4 30.5 | 4 34.8 | 4 54.0 | 0.7 | 0 29.5 | — |
| " | " 28 | — | — | — | — | — | — | Occasional slight A.T.'s. |
| 156 | " 31 | 8 50.0 | — | — | 10 40.0 | — | 1 50.0 | Line slightly sinuous. |
| 157 | June 11 | 6 38.0 | 6 50.0 | 6 56.0 | 7 39.0 | 0.5 | 1 1.0 | — |
| 158 | " 16 | 2 17.0 | — | — | 2 24.0 | — | — | Line thickened. |
| 159 | " 22 | 3 33.0 | — | 3 36.0 | 3 39.0 | 0.3 | 0 6.0 | — |

The following table gives the sensitiveness of the instrument as measured on the developed rolls:—

| | | | |
|---------------|------|---|----------------------|
| Jan. 1-May 21 | . 1° | of foot-screw = 2.761 mm. at end of boom. | Tilt, 0".715 = 1 mm. |
| May 21-27 | . 1° | " = 3.0 mm. | " 0".637 = 1 mm. |
| " 27-June 7 | . 1° | " = 3.7 mm. | " 0".516 = 1 mm. |
| June 7-12 | . 1° | " = 2.9 mm. | " 0".659 = 1 mm. |
| " 12-23 | . 1° | " = 3.2 mm. | " 0".597 = 1 mm. |
| " 23-29 | . 1° | " = 3.5 mm. | " 0".546 = 1 mm. |

The Register from the Meteorological Observatory, Toronto, Canada. Director, Professor R. F. STUPART.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Duration | Remarks |
|--------------|--------|---------------|---------------|---------|--------------|----------------|----------|---|
| | | H. M. | H. M. | H. M. | H. M. | MM. | H. M. | |
| 1902. | | | | | | | | |
| 375 | Jan. 1 | 5 39.2 | 5 50.5 | 6 0.0 | about 8 0.0 | 4.5 | 2 20.8 | Large. Started very sudden. |
| 376 | " 5 | 9 51.5 | — | — | 9 54.0 | 0.05 | 0 2.5 | Wavy. |
| 377 | " 9 | 0 17.0 | — | — | — | 0.05 | — | Very small. |
| 378 | " 9 | 1 11.0 | — | — | — | 0.05 | — | Minute hitch. |
| 379 | " 9 | 1 17.0 | — | — | — | 0.05 | — | " " |
| 380 | " 17 | 0 5.2 | — | 0 6.5 | 0 32.0 | 0.2 | 0 26.8 | Small, Mexico. |
| 381 | " 18 | 23 36.0 | — | 23 39.0 | 24 19.0 | 1.8 | 0 43.0 | Moderate, well marked, Mexico. |
| 382 | " 21 | 21 56.3 | — | 22 4.5 | 22 20.0 | 0.5 | 0 23.7 | Succession of small oscillations. |
| 383 | " 23 | 16 0.0 | — | — | — | 0.05 | — | Mere thickening. |
| 384 | " 24 | 23 48.0 | 24 23.0 | 24 28.5 | 26 15.0 | 2.5 | 2 27.0 | Moderate and extended. |
| 385 | " 28 | 18 54.0 | — | 19 2.0 | 19 55.0 | 1.0 | 1 1.0 | Small and extended. |
| 386 | " 30 | 14 24.2 | — | 14 57.0 | 16 12.0 | 0.8 | 1 47.8 | Feeble; long duration. |
| 387 | " 31 | 2 5.2 | — | — | about 2 50.0 | 0.2 | 0 44.8 | Small and continuous. |
| 388 | Feb. 3 | 19 23.3 | — | — | 19 38.0 | 0.1 | 0 14.7 | Earthquake at St. Stephen's, N.B., small but decided. |
| 389 | " 9 | 8 6.8 | — | 8 56.8 | about 9 11.0 | 1.1 | 1 4.2 | Moderate and extended vibrations. |

Toronto Register—continued.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Duration | Remarks |
|-----|---------|--------------------------------|---------------|---------------|---------------|----------------|--------------|--|
| 390 | Feb. 9 | H. M. 10 50.8 | H. M. — | H. M. 11 27.5 | H. M. 12 49.5 | MM. 1.1 | H. M. 1 58.7 | Moderate P.T.'s, long time before L.W. |
| 391 | " 15 | 10 15.8 | 10 30.3 | 10 31.3 | 11 0.0 | 1.0 | 0 44.2 | Medium. Russia. |
| 392 | " 17 | 0 36.8 | 0 41.7? | 0 52.6 | 2 30.0 | 6.0 | 1 53.2 | Large; commenced gradually, followed in 5 min. by sharp shocks. |
| 393 | " 17 | 20 30.2 | — | — | about 20 42.0 | 0.1 | 0 11.8 | Thickening. |
| 394 | " 17 | 21 38.9 | — | — | 22 40.0 | 0.05 | 1 1.1 | Mere thickening. |
| 395 | March 5 | 19 21.0 | — | 19 21.3 | 20 50.0 | 1.0 | 1 29.0 | Small and extended; marked tremblings at beginning. |
| 396 | " 11 | 19 8.4 | — | — | 19 10.4 | 0.1 | 0 2.0 | Marked thickening, small and well defined. |
| 397 | " 12 | 15 32.2 | — | about 16 24.0 | 16 55.0 | 0.2 | 1 22.8 | Asia Minor. |
| 398 | " 17 | 11 26.2 | — | 11 37.3 | 12 0.0 | 0.7 | 0 33.8 | Small, well defined. |
| 399 | " 18 | 21 12.5 | — | — | 21 14.0 | 0.05 | 0 1.5 | Marked thickening. |
| 400 | " 22 | P.T.'s did not come to 22 32.0 | 22 32.2 | 22 46.3 | 24 0.0 | 6.0 | 1 28.0 | Strong, marked disturbance; second shock facsimile of first. |
| 401 | " 24 | 17 57.9 | 18 3.4 | 18 4.4 | 19 6.0 | 3.0 | 1 8.1 | Medium, well marked. |
| 402 | " 25 | 3 42.0 | 3 47.0 | 3 47.5 | 4 18.5 | 1.5 | 0 36.5 | Abrupt just after P.T. |
| 403 | " 28 | 15 7.0 | — | 16 12.5 | 17 0.0 | 0.4 | 1 59.0 | Small and extended. |
| 404 | April 5 | 19 23.4 | — | 19 31.2 | 20 0.0 | 0.2 | 0 36.6 | Marked thickenings. |
| 405 | " 9 | 19 23.0 | — | 19 34.2 | 19 41.0 | 0.4 | 0 18.0 | Small, well defined. |
| 406 | " 12 | 0 18.3 | — | — | 1 3.0 | 0.1 | 0 44.7 | Prolonged thickenings. |
| 407 | " 19 | 2 30.5 | 2 35.5 | 2 38.0 | 5 24.0 | over 25.0 | 2 53.5 | Very large and continuous. Started suddenly. Largest disturbance recorded (Guatemala); magnetometers vibrated. |
| 408 | " 29 | 0 11.9 | — | — | 0 14.5 | 0.05 | 0 2.6 | Mere thickening. |
| 409 | June 8 | 13 50.6 | — | 13 53.1 | 14 18.6 | 0.3 | 0 28.0 | Small, but decided. |
| 410 | " 11 | 6 52.2 | — | 7 1.4 | 7 34.0 | 0.5 | 0 41.8 | " " " |

Register from Victoria, British Columbia.
Superintendent, E. BAYNES REID.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Duration | Remarks |
|-------------|--------|---------------|---------------|--------------|--------------|----------------|--------------|---|
| 1902 | | | | | | | | |
| 868 | Jan. 1 | H. M. 5 26.5 | H. M. 5 32.0 | H. M. 5 50.6 | H. M. 7 50.0 | MM. 4.8 | H. M. 2 33.5 | A constant and large oscillation 3.50 to 6.06 (Alaska). |
| 869 | " 9 | 0 13.9 | — | 0 15.0 | 0 19.0 | 0.1 | 0 5.1 | Small, well defined. |
| 870 | " 9 | 1 22.0 | — | — | — | 0.05 | — | Minute h.t.c. |
| 871 | " 9 | 1 23.5 | — | — | — | 0.05 | — | " " " |

Victoria, British Columbia—continued.

| No. | Date | P.T. commence | L.W. commence | Max. | End | Max. Amplitude | Duration | Remarks |
|-----|---------|---------------|---------------|--------------|--------------|----------------|--------------|---|
| 372 | Jan. 17 | H. M. 0 2.5 | H. M. — | H. M. 0 17.0 | H. M. 0 38.5 | MM. 1.0 | H. M. 0 36.0 | Small, well defined (Mexico). |
| 373 | " 18 | 23 35.2 | 23 50.0 | 23 50.8 | 24 30.0 | 1.0 | 0 54.8 | Larger than previous (Mexico). |
| 374 | " 21 | 22 15.6 | — | — | 22 26.6 | 0.1 | 0 11.0 | Two marked thickenings. |
| 375 | " 23 | 15 51.5 | — | — | 16 11.8 | 0.2 | 0 20.3 | Marked thickening. |
| 376 | " 24 | 10 54.4? | — | — | 10 58.2 | 0.6 | 0 3.8 | Marked, but small, uncertain. |
| 377 | " 24 | 23 40.4 | 24 8.4 | 24 15.4 | 26 58.0 | 2.0 | 3 17.6 | Medium marked quake. |
| 378 | " 28 | 18 58.6 | 19 18.6 | 19 22.8 | 20 8.0 | 1.0 | 1 8.4 | Moderate and extended. |
| 379 | " 30 | 14 10.2 | 14 19.6 | 14 20.6 | 16 11.0 | 0.6 | 2 0.8 | Small, continuous. |
| 380 | " 31 | 2 2.6 | — | — | 2 56.0 | 0.3 | 0 53.4 | Small, sudden start. |
| 381 | Feb. 3 | 19 0.5 | — | — | 19 20.5 | 0.1 | 0 20.0 | Marked thickenings. |
| 382 | " 9 | 7 48.0 | — | — | 10 0.0 | 0.3 | 2 12.0 | Small, prolonged. |
| 383 | " 9 | 10 29.7 | — | — | 12 25.0 | 0.3 | 1 55.3 | Well marked tremblings. |
| 384 | " 13 | 10 26.0 | — | 10 37.0 | 11 10.0 | 0.3 | 0 45.0 | Marked switching of the boom. |
| 385 | " 17 | 0 38.3 | 0 69.3 | 1 2.4 | 3 0.0 | 5.0 | 2 21.7 | Large, well marked movements. |
| 386 | " 17 | 20 41.0 | — | — | 20 53.0 | 0.4 | 0 12.0 | Small, but decided. |
| 387 | " 17 | 21 46.0 | — | — | 21 56.0 | 0.5 | 0 10.0 | " " |
| 388 | " 19 | 13 48.5 | — | — | 13 56.0 | 0.2 | 0 7.5 | " " |
| 389 | March 5 | 19 18.2 | — | 19 53.0 | 20 50.2 | 0.9 | 1 37.0 | Small and well marked. |
| 390 | " 17 | 11 28.0 | — | 11 35.0 | 12 14.0 | 0.3 | 0 48.0 | Very small. |
| 391 | " 18 | 21 5.0 | — | — | 21 24.0 | 0.05 | 0 19.0 | Mere thickenings. |
| 392 | " 22 | 22 16.6 | 22 24.5 | 22 31.3 | 24 26.0 | 17.0 | 2 9.4 | Two very large shocks, facsimile of each other. |
| 393 | " 24 | 18 14.0 | — | 18 22.1 | 19 8.0 | 1.0 | 0 54.0 | Small, well marked. |
| 394 | " 25 | 3 58.2 | — | 4 6.3 | 4 41.3 | 0.7 | 0 43.1 | Small. |
| 395 | " 28 | 15 2.3 | — | — | 18 0.0 | 0.5 | 2 57.7 | Small, extended. |
| 396 | April 5 | 19 5.0 | — | — | 19 4.8 | 0.05 | 0 43.0 | Thickening. |
| 397 | " 9 | 10 41.7 | — | — | 19 48.0 | 0.05 | 0 6.3 | Mere thickenings. |
| 398 | " 12 | 0 51.6 | — | 0 55.0 | 1 0.0 | 0.8 | 0 8.4 | Mixed with air currents. |
| 399 | " 13 | 22 46.4 | — | — | 22 56.4 | 0.1 | 0 10.0 | Gradual thickening. |
| 400 | " 19 | 2 31.3 | 2 37.2 | 2 50.7 | 5 36.4 | 18.0 | 3 6.1 | Tremors started suddenly. Some oscillations very rapid (Guatemala). |
| 401 | " 25 | 23 46.0 | — | — | 23 53.1 | 0.2 | 0 7.1 | Marked thickenings. |
| 402 | May 25 | 17 2.0 | — | — | 17 34.0 | 0.1 | 0 32.0 | Marked thickenings. |
| 403 | June 8 | 13 31.0 | — | 13 44.2 | 14 7.0 | 0.3 | 0 36.0 | Small. |
| 404 | " 11 | 6 32.9 | 6 44.7 | 6 45.7 | 7 18.0 | 0.3 | 0 43.1 | Small. |
| 405 | " 16 | 18 47.4 | 18 58.4 | 18 59.4 | 19 12.4 | 0.7 | 0 25.0 | Small, well defined, probably (Mexico). |

Register from San Fernando, Spain.
 Instituto y Observatorio de Marina. Director, Admiral J. VINIÈGRA.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Duration | Remarks |
|-------------|---------|---------------|---------------|--------------|--------------|----------------|------------|--------------------------------|
| 1902 | | | | | | | | |
| 127 | Jan. 1 | H. M. 5 44.5 | H. M. 6 19.1 | H. M. 6 20.5 | H. M. 7 10.5 | MM. 1 | H. M. 1 26 | — |
| 128 | Feb. 9 | 8 4.2 | 9 23.0 | { 9 32.0 | 12 24.7 | { 2.3 | 4 21.0 | — |
| 129 | " 13 | 9 52.7 | 10 4.2 | 10 8.2 | 10 54.2 | 2 | 1 1.5 | Slight. |
| 130 | " 16 | 5 24.8 | — | — | 7 24.8 | — | 2 | Very slight. |
| 131 | " 17 | 0 42.5 | 1 5.3 | { 1 9.3 | 3 19.3 | { 3.5 | 2 36.8 | — |
| 132 | March 1 | 1 8.4 | 1 17.4 | 1 20.3 | 1 39.7 | 1 | 0 27.3 | — |
| 133 | " 5 | 19 11.8 | 19 44.4 | 1 20.4 | 1 39.7 | 1.5 | 1 33.0 | — |
| 134 | " 12 | 15 55.4 | 17 32.4 | 19 50.4 | 20 44.8 | 1 | 1 42.0 | — |
| 135 | " 20 | 2 49.9 | 2 52.9 | 17 32.4 | 16 42.4 | 1 | 1 42.0 | — |
| 136 | " 22 | 22 52.9 | 23 2.4 | 2 54.9 | 3 12.2 | 0.75 | 0 22.3 | — |
| 137 | " 24 | 17 44.4 | 18 26.1 | { 23 3.4 | 23 51.4 | { 2.5 | 0 58.5 | — |
| 138 | " 26 | 3 59.9 | 4 11.6 | 23 8.0 | 18 29.1 | 1.7 | 1 7.4 | — |
| 139 | " 28 | 15 3.5 | 15 39.0 | 18 29.1 | 18 51.8 | 1.5 | 0 45.2 | — |
| 140 | April 5 | 19 42.1 | 15 52.6 | 4 15.6 | 4 45.1 | 1.5 | 0 45.2 | — |
| 141 | " 19 | 2 34.6 | 2 58.8 | 16 7.0 | 19 40.0 | 2.5 | 4 36.5 | — |
| 142 | May 12 | 23 37.5 | — | 19 55.6 | 20 10.6 | 1.0 | 0 28.5 | — |
| 143 | " 16 | 12 19.8 | — | 3 38.8 | 5.0 | 1 4.0 | — | Sudden deviations to the West. |
| 144 | " 17 | 3 38.8 | — | 25 19.8 | — | 1 42.3 | — | " " |
| 145 | " 17 | 12 17.8 | — | 13 45.8 | — | 1 26.0 | — | " " |
| 146 | " 18 | 1 32.8 | — | 3 34.8 | — | 0 1.0 | — | " " |
| 147 | " 18 | 11 36.8 | — | 12 31.8 | — | 0 14.0 | — | Small deviations. |
| 148 | " 19 | 11 50.8 | — | 2 42.8 | 3 30.8 | 2.0 | 1 18.0 | " " |
| 149 | " 19 | 18 59.8 | — | 11 45.8 | 12 19.8 | 2.0 | 0 48.0 | " " |
| 150 | " 20 | 7 57.8 | — | 14 19.8 | — | 2 29.0 | — | " " |
| 151 | " 20 | 12 24.8 | — | 19 32.8 | 20 19.8 | 1 20 | — | Deviations. |
| 152 | " 20 | 14 38.8 | — | 8 0.8 | 8 0.8 | 3 | 0 3 | Two deviations. |
| 153 | " 20 | 22 42.8 | — | 15 32.8 | — | 1 8 | — | Small deviations. |
| 154 | " 21 | 16 11.8 | — | 15 44.8 | — | 1 6 | — | " " |
| 155 | " 22 | 13 9.2 | — | 25 25.8 | — | 0 43 | — | " " |
| 156 | " 24 | 10 41.8 | — | 16 35.8 | — | 0 24 | — | " " |
| 157 | " 24 | 14 2.8 | — | 13 46.2 | 14 4.2 | 2.0 | 0 55 | " " |
| 158 | " 24 | 15 38.8 | — | — | — | — | 0 56 | Small deviations. |
| 159 | " 25 | 5 8.8 | — | — | — | — | 0 38 | " " |
| 160 | " 25 | 18 26.8 | — | — | — | — | 0 21 | " " |
| 161 | " 29 | 24 23.8 | — | 18 29.8 | 18 41.8 | 3.0 | 0 15 | " " |
| 162 | " 30 | 0 28.8 | — | — | — | — | — | Rapid and sudden deviations. |
| 163 | " 30 | 20 40.8 | — | — | — | — | — | " " |
| 164 | " 31 | 6 27.8 | — | — | — | — | — | " " |
| 165 | " 31 | 7 7.8 | — | — | 13 58.6 | — | 6 50.8 | Rapid deviations. |
| 166 | June 11 | 6 52.3 | 6 56.3 | 7 0.3 | 7 33.8 | 2.5 | 0 41.5 | — |
| 167 | " 17 | 0 22.7 | 0 3.8 | 0 32.8 | 1 0.2 | 0.5 | 0 37.5 | — |
| 168 | " 22 | 3 35.2 | 3 37.7 | 3 39.7 | 3 44.2 | 1.3 | 0 9.0 | — |

1 mm. amplitude=0''43.

Register from Abbassia Observatory, Egypt.
 Director, Captain H. G. LYONS, R.E.; Superintendent, E. B. H. WADE, M.A.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Duration | Remarks |
|--------------|---------|---------------|---------------|------------|------------|----------------|------------|--|
| 1902. | | | | | | | | |
| 90 | Jan. 7 | H. M. 5 48 | H. M. 5 50 | H. M. 5 53 | H. M. 6 58 | " | H. M. 0 10 | — |
| 91 | " 7 | — | — | 13 29.5 | — | — | — | — |
| 92 | " 11 | — | — | 20 9.0 | — | — | — | Doubtful. |
| 93 | " 28 | 3 0.8 | 3 30 | 3 34.5 | 3 37 | 0.1 | 0 34 | Minute thickening. |
| 94 | " 28 | 13 10.7 | — | 13 11 | 13 13 | — | 0 2.3 | Minute. |
| 95 | " 28 | 14 15.7 | 14 55 | 15 00 | 15 14 | — | 0 59 | — |
| 96 | Feb. 4 | — | — | 0 02 | — | 0.3 | — | — |
| 97 | " 13 | 21 24.5 | 21 34.3 | 0 03 | — | — | — | Minute thickening. |
| 98 | " | None | 23 41.0 | 0 09 | — | — | — | — |
| 99 | " 26 | — | — | 17 41 | — | — | — | — |
| 100 | " 27 | — | — | 0 45 | — | — | — | — |
| 101 | " 28 | — | — | 0 51.8 | — | — | — | — |
| 102 | " 28 | — | — | 0 56.2 | — | — | — | — |
| 103 | " 28 | — | — | 23 44.0 | 24 20 | — | — | — |
| 104 | March 4 | 12 4.3 | 12 7.0 | 0 52 | — | 1.5 | — | — |
| 105 | " | — | — | 24 02.5 | — | — | — | — |
| 106 | " | — | — | 24 13.4 | — | — | — | — |
| 107 | " | — | — | 12 13 | — | — | — | ? Seismic. |
| 108 | " | — | — | 18 20 | — | — | — | Minute thickening. |
| 109 | " | — | — | 21 30 | — | — | — | — |
| 110 | " | — | — | 22 35 | — | — | — | — |
| 111 | " | — | — | 7 10 | — | — | — | — |
| 112 | March 4 | 12 4.3 | 12 7.0 | 12 7.8 | 13 8 | — | 1 3.7 | — |
| 113 | " | — | — | 0 17.3 | — | — | — | — |
| 114 | " | — | — | 0 24.5 | — | — | — | — |
| 115 | " | — | — | 0 27.3 | — | 0.6 | — | — |
| 116 | " | — | — | 0 32.0 | — | — | — | — |
| 117 | " | — | — | 16 49 | 16 58 | 17 3 | 0.1 | 0 14 |
| 118 | " | — | — | 21 1 | 21 09.5 | 21 35 | — | 0 34 |
| 119 | " | — | — | 19 42 | 19 43 | 19 59.5 | 0.5 | 0 17.5 |
| 120 | " | — | — | 0 56.5 | — | — | — | Doubtful nature. |
| 121 | " | — | — | 2 31.3 | — | — | — | — |
| 122 | " | — | — | 0 34 | — | — | — | — |
| 123 | " | — | — | 0 37 | — | — | — | — |
| 124 | " | — | — | 0 47 | — | — | — | — |
| 125 | " | — | — | 0 50.5 | — | 0.15 | — | — |
| 126 | " | — | — | 7 30 | 7 35 | 0.5 | 0 7.5 | — |
| 127 | " | — | — | 12 32 | — | 3.0 | — | Prominent; trace tremulous, whole day. |
| 128 | " | — | — | 24 43.8 | 24 46.3 | 0.1 | 0 26.3 | — |
| 129 | " | — | — | 17 20 | 18 12.0 | — | 1 2.6 | — |
| 130 | " | — | — | 0 27 | — | 0.2 | — | — |
| 131 | " | — | — | 0 38.5 | — | — | — | — |
| 132 | " | — | — | 0 56.5 | — | — | — | — |
| 133 | " | — | — | 18 7.3 | — | — | — | — |
| 134 | " | — | — | 13 36 | — | 0.5 | — | — |
| 135 | " | — | — | 22 36.5 | 22 37.5 | 1.5 | 0 9.5 | Obscured by tremulous trace. |
| 136 | " | — | — | 22 37.5 | — | — | — | — |
| 137 | June 2 | 2 53 | 3 07 | 3 08 | 3 28 | 0.4 | 0 7.5 | — |
| 138 | " | — | — | 3 33 | — | — | — | Very slight thickening. |
| 139 | " | — | — | — | — | — | — | — |
| 140 | " | — | — | 5 22 | — | — | — | Very slight thickening. |
| 141 | " | — | — | — | — | — | — | — |
| 142 | " | — | — | 3 44 | 3 47 | 3 47 | 0 10 | Very slight thickening. |
| 143 | " | — | — | 3 47 | 3 54 | 0.3 | 0 10 | — |
| 144 | " | — | — | 4 40.5 | 4 49.7 | 4 51.0 | 0 17.5 | — |
| 145 | " | — | — | 5 00.5 | — | — | — | — |
| 146 | " | — | — | 0 39 | — | 1.8 | — | Nature doubtful. |

Register from the Royal Observatory, Cape of Good Hope.
Director, Sir DAVID GILL, K.C.B., F.R.S.

| No. | Date | Commence- ment | D. 1st P.T.s | Maxima | Semi- ampli- tude | Dura- tion | Remarks |
|--------------|---------|-------------------|-----------------|--------------------------------------|------------------------------|---------------|---|
| 1902. | | | | | | | |
| 144 | Jan. 12 | H. M. 22 43.0 | H. M. 0 23 | H. M. 23 9.0 | " 0.09 | H. M. 1 12 | Times recorded approximately. Hour marks not appearing on film through change in level. |
| 145 | " 18 | 23 54.3 | 0 32 | 0 28.5 | 0.05 | 0 40 | — |
| 146 | " 21 | 22 6.7 | 0 25 | 22 34.7 | 0.27 | 0 52 | — |
| 147 | " 28 | 19 10.0 | — | 19 41.9 | — | 0 57 | A slight thickening of the line which seems to reach a max. at time stated. |
| 148 | " 29 | 2 2.4 | 0 28 | 2 45.4 | 0.06 | 0 56 | — |
| 149 | " 30 | 13 28.0 | 1 46 | 15 16.6 | 0.24 | 3 32 | — |
| 150 | " 31 | 2 48.0 | — | — | — | 1 6 | A series of slight thickenings of line without any defined maximum. |
| 151 | Feb. 4 | 0 11.0 | — | 0 20.0 | — | 0 12 | Slight thickening. |
| 152 | " 9 | 8 3.0 | — | 8 34.5 8 39.5 8 45.9 8 48.5 | 0.07 0.09 0.10 0.06 | 1 57 | A long series of slight disturbances. |
| 153 | " 9 | 10 32.0 | — | 11 7.0 | 0.08 | 1 56 | A long series of slight disturbances. |
| 154 | " 13 | 10 18.5 | — | — | — | 0 46 | Record interrupted. Max. probably about 22 h. 30 m. |
| 155 | " 17 | 0 48.1 | 0 38 | 1 33.6 | 1.50 | 2 18 | — |
| 156 | " 25 | — | — | 16 28.0 | — | 0 10 | Slight vibrations, which appear to reach a max. at time noted. |
| 157 | March 5 | 19 13.0 | 0 23 | 19 42.3 | 0.03 | 2 5 | — |
| 158 | " 10 | 4 27.3 | 0 2 | 4 29.5 | 0.03 | 0 11 | — |
| 159 | " 22 | 7 34.0 | [0 9] | [7 45.0] | [0.02] | 0 32 | Soon after earthquake started, instrument disturbed for winding watch, so that D 1st P.T.'s Max. and Semi-amp. are uncertain. |
| 160 | " 22 | 23 32.0 | — | — | — | 0 47 | Series of very slight vibrations. |
| 161 | " 28 | 14 53.8 | 0 16 | 15 40.4 | 0.02 | 2 58 | — |

Register from the Royal Observatory, Cape of Good Hope—continued.

| No. | Date | Commence- ment | D. 1st P.T.s | Maxima | Semi- ampli- tude | Dura- tion | Remarks |
|-----|----------|-------------------|-----------------|------------------|-------------------------|---------------|---|
| 162 | April 12 | H. M. 0 17.3 | M. 0 10 | H. M. 0 34.8 | " 0.02 | H. M. 1 32 | The earthquake proper continues for 18 m. after max. The tremors from there to the end are very slight. |
| 163 | " 19 | 2 38.4 | 0 5 | 2 58.7 3 26.0 | 1.01 1.08 | 4 52 | — |
| 164 | " 21 | 17 42.2 | 0 4 | 17 50.5 | 0.03 | 0 16 | — |
| 165 | May 25 | 18 0.5 | 0 4 | 18 14.5 | 0.02 | 0 25 | — |
| 166 | June 11 | 7 20.5 | 0 4 | 7 27.6 | 0.01 | 0 10 | — |

Register from Alipore Observatory, Calcutta.
W. KÜCHLER, Assistant Meteorological Reporter.

| No. | Date | Commence- ment G.M.T. | Duration First P.T. | Maxima G.M.T. | Amplitude | | Duration | Remarks |
|---|---------|-----------------------------|------------------------|------------------|-----------|------|------------------|--|
| | | | | | Mm. | " | | |
| 1901. | | | | | | | | |
| 126 | Dec. 31 | H. M. S. 9 16 31 | H. M. S. 0 15 15 | H. M. S. 9 50 35 | 12.00 | 5.76 | H. M. S. 1 54 55 | — |
| 127 | " 31 | 11 22 6 | 0 5 5 | 11 33 48 | 2.00 | 0.96 | 0 41 11 | — |
| 1902. | | | | | | | | |
| 128 | Jan. 1 | 5 42 57 | 0 21 21 | 6 8 28 | 2.75 | 1.32 | 1 15 15 | — |
| 129 | " 1 | 7 35 50 | 0 13 44 | 7 51 5 | 1.00 | 0.48 | 0 29 29 | — |
| 130 | " 12 | 22 54 44 | 0 2 53 | 22 49 59 | 4.25 | 2.04 | 0 43 49 | — |
| 131 | " 24 | 23 38 41 | 0 8 8 | 0 7 40 | 5.50 | 2.54 | 2 42 43 | — |
| 132 | " 29 | 1 42 37 | 0 6 6 | 1 49 14 | 2.00 | 0.96 | 0 29 30 | — |
| 133 | " 30 | 14 8 2 | 0 20 50 | 14 32 26 | 6.50 | 3.12 | 1 3 3 | — |
| 134 | " 31 | 2 1 53 | 0 7 38 | 2 11 33 | 2.00 | 0.96 | 0 43 44 | Doubtful. |
| 135 | Feb. 3 | 1 14 3 | 0 33 3 | 1 48 37 | 1.25 | 0.60 | 1 37 37 | — |
| 136 | " 5 | 5 55 11 | 0 1 31 | 5 58 44 | 1.25 | 0.60 | 0 14 45 | — |
| 137 | " 9 | Not known | — | 11 5 17 | 2.00 | 0.96 | — | As the roller did not drive the paper some time before the maximum displacement, the times of the commencement, duration of first P.T. and duration of the displacement are not known. |
| 138 | " 12 | 2 58 7 | 0 1 1 | 3 4 12 | 1.00 | 0.64 | 0 14 45 | — |
| 139 | " 13 | 9 52 29 | 0 12 43 | 10 8 15 | 2.00 | 1.28 | 1 8 8 | — |
| The clock did not drive the paper from February 14 to 15, 1902. | | | | | | | | |
| 140 | " 15 | 21 39 9 | 0 4 35 | 21 48 16 | 1.50 | 0.96 | 0 38 37 | — |
| 141 | " 17 | 10 24 53 | — | — | — | — | 0 11 11 | Thickening of line. |
| 142 | " 24 | 5 1 43 | 0 5 36 | 5 8 20 | 1.50 | 0.96 | 0 19 10 | — |
| There is no trace from February 25 to 28, 1902, as the clock did not drive the paper. | | | | | | | | |
| 143 | Mar. 1 | 0 24 42 | 0 7 37 | 0 25 22 | 2.00 | 1.28 | 0 31 31 | — |
| 144 | " 5 | 20 23 5 | 0 12 43 | 20 41 42 | 0.50 | 0.32 | 0 48 49 | — |
| 145 | " 8 | 0 26 3 | 0 4 4 | 0 32 9 | 0.75 | 0.48 | 0 12 43 | — |
| 146 | " 12 | 6 55 22 | — | 7 30 27 | 0.75 | 0.48 | 1 31 32 | Doubtful. |
| 147 | " 13 | 12 26 23 | — | — | — | — | 2 47 18 | — |
| 148 | " 13 | 0 51 15 | — | — | — | — | 0 22 25 | Thickening of line. |
| 149 | " 19 | 19 28 31 | — | — | — | — | 4 54 55 | — |
| 150 | " 20 | 2 17 50 | 0 3 3 | 2 21 54 | 1.00 | 0.64 | 0 15 48 | — |
| 151 | " 21 | 25 16 16 | — | — | — | — | 3 41 41 | Small continuous disturbance; the maximum cannot be determined. |

Register from Alipore Observatory, Calcutta—continued.

| No. | Date | Commencement G.M.T. | Duration First P.T. | Maxima G.M.T. | Amplitude | | Duration | Remarks |
|-----|---------|------------------------|------------------------|------------------|-----------|-------|----------|---|
| | | | | | Mm. | " | | |
| 152 | Mar. 22 | H. M. S. 8 49 49 | H. M. S. | H. M. S. | — | — | H. M. S. | Doubtful. |
| 153 | " 22 | 10 19 19 | — | — | — | — | 8 26 57 | Small continuous disturbances; the maxima cannot be determined. |
| 154 | " 22 | 21 37 35 | — | — | — | — | 2 15 15 | Doubtful. |
| 155 | Apr. 2 | 13 15 59 | 0 23 54 | 13 40 23 | 0.50 | 0.32? | 1 21 21 | Doubtful. |
| 156 | " 11 | 23 59 35 | — | 0 1 38 | 0.75 | 0.48? | 0 13 34 | Thickening of line. |
| 157 | " 17 | 9 2 29 | — | — | — | — | 0 59 30 | " " " |
| 158 | " 17 | 21 18 35 | — | — | — | — | 0 9 9 | Continued for more than three hours. |
| 159 | " 18 | 20 50 36 | — | — | — | — | — | " " " |
| 160 | " 19 | 2 43 59 | 0 2 2 | 3 13 29 | 1.75 | 1.19? | 2 4 35 | Thickening of line. |
| 161 | " 21 | 15 35 49 | 0 9 9 | 15 45 59 | 1.25 | 0.80? | 1 7 7 | " " " |
| 162 | " 21 | 37 55 8 | — | — | — | — | 1 24 53 | " " " |
| 163 | " 22 | 0 25 0 | — | — | — | — | 0 5 26 | " " " |
| 164 | May 2 | 11 45 18 | 0 15 15 | 12 6 38 | 1.25 | 0.60 | 0 57 27 | Doubtful. |
| 165 | " 2 | 18 44 46 | 0 22 27 | 14 27 59 | 0.75 | 0.38 | 1 39 40 | Thickening of line. |
| 166 | " 2 | 23 12 43 | — | — | — | — | 0 20 51 | Thickening of line. |
| 167 | " 8 | 2 32 4 | 0 8 35 | 2 46 44 | 2.00 | 0.96 | 0 38 8 | Thickening of line. |
| 168 | " 8 | 12 29 57 | — | — | — | — | 1 8 9 | Thickening of line. The seismograph watch was under repair; the approximate true time is given. |
| 169 | " 15 | 3 41 45 | — | — | — | — | 0 58 59 | Thickening of line. Doubtful. |
| 170 | " 17 | 11 3 8 | — | — | — | — | 0 6 37 | Doubtful. |
| 171 | " 22 | 5 53 31 | 0 8 8 | 6 3 41 | 1.00 | 0.48 | 1 23 24 | Doubtful. |
| 172 | " 25 | 17 23 41 | 0 1 1 | 17 27 14 | 0.75 | 0.38 | 0 19 50 | " " " |
| 173 | June 4 | 3 6 18 | 0 24 55 | 3 45 53 | 1.50 | 0.72 | 1 25 26 | Doubtful. |
| 174 | " 11 | 6 35 23 | 0 2 2 | 6 38 37 | 2.50 | 1.20 | 0 48 49 | " " " |

Register from the Government Observatory, Bombay.
Director, N. A. F. MOOS.

| No. | Date | P.T. Commencement | L.W. Commencement | Max. | End | Max. Amplitude | Duration | Remarks |
|-----|---------|--------------------|-------------------|----------|----------|----------------|----------|--|
| | | | | | | | | |
| 1 | Jan. 1 | H. M. S. 5 47-2 | H. M. S. | H. M. S. | H. M. S. | " | H. M. S. | — |
| 7 | " 12 | 22 36-0 | 23 48-3 | 22 57-3 | 23 32-0 | 0-9 | 1 6-8 | — |
| 14 | " 20 | 1 5-7 | — | 1 7-4 | 1 13-7 | 0-5 | 0 8-0 | — |
| 19 | " 24&25 | 23 39-8 | — | 23 51-8 | 1 34-8 | 0-8 | 1 53-9 | — |
| 22 | " 29 | 1 36-6 | — | 1 58-0 | 2 19-7 | 1-0 | 0 34-1 | — |
| 24 | " 30 | 14 10-1 | 14 19-1 | 14 40-5 | 15 13-5 | 2-4 | 1 3-4 | — |
| 25 | " 31 | 1 51-6 | — | 2 21-5 | 2 52-2 | 0-8 | 1 3-6 | — |
| 39 | Feb. 9 | 7 59-8 | 8 30-9 | 8 36-7 | 9 57-4 | 1-2 | 1 57-6 | — |
| 40 | " 9 | 10 28-1 | — | 11 35-5 | 12 32-7 | 0-5 | 2 4-6 | — |
| 43 | " 13 | 9 50-2 | 9 58-0 | 10 2-9 | 10 26-7 | 1-1 | 0 55-5 | — |
| 45 | " 15 | 21 39-7 | — | 21 41-6 | 21 51-6 | 1-1 | 0 11-3 | — |
| 48 | " 17 | 3 42-3 | — | 2 40-6 | 3 15-4 | 0-5 | 2 33-1 | — |
| 61 | " 24 | 5 12-0 | — | 5 14-4 | 5 19-0 | 0-4 | 0 6-0 | — |
| 73 | Mar. 1 | 0 21-9 | — | 0 44-8 | 1 5-4 | 0-6 | 0 42-3 | — |
| 85 | " 5 | 19 20-7 | — | 20 25-8 | 21 23-1 | 0-4 | 2 2-4 | — |
| 115 | " 22 | 23 28-5 | — | 23 33-9 | 23 56-3 | 0-2 | 0 29-7 | — |
| 124 | " 28 | 9 34-5 | — | 10 3-3 | 10 15-0 | 0-5 | 0 40-5 | — |
| 125 | " 28 | 14 54-7 | — | — | 16 20-9 | — | 1 28-2 | As the disturbance was small its commencement was not noticed, and the usual work of winding the watch, &c. was inadvertently done during the disturbance. |
| 140 | Apr. 7 | 13 34-9 | — | 13 17-0 | 13 34-6 | 0-5 | 0 9-7 | — |
| 157 | " 12 | 1 13-2 | — | 1 37-7 | 1 47-4 | 0-2 | 0 35-2 | — |
| 177 | " 19 | 2 43-5 | 3 4-5 | 3 8-0 | 5 5-6 | 1-7 | 2 22-3 | — |
| 179 | " 19 | 11 6-0 | — | 11 26-3 | 11 34-5 | 0-4 | 0 28-5 | — |

Register from the Government Observatory, Bombay—continued.

| No. | Date | P.T. Commencement | L.W. Commencement | Max. | End | Max. Amplitude | Duration | Remarks |
|-----|---------|---------------------|-------------------|----------|----------|----------------|----------|--|
| | | | | | | | | |
| 185 | Apr. 20 | H. M. S. 13 19-0 | H. M. S. | H. M. S. | H. M. S. | " | H. M. S. | — |
| 187 | " 20 | 14 5-7 | — | 12 32-9 | 12 41-4 | 0-3 | 0 23-4 | — |
| 191 | " 21 | 17 44-7 | 17 59-1 | 14 17-1 | 14 41-1 | 0-4 | 0 35-4 | — |
| 199 | May 2 | 11 51-7 | — | 12 10-9 | 12 38-5 | 0-4 | 0 45-8 | — |
| 204 | " 8 | 2 49-1 | — | 2 56-5 | 3 9-6 | 0-5 | 0 23-5 | — |
| 227 | " 25 | 17 28-1 | — | 17 34-9 | 17 43-1 | 0-6 | 0 15-0 | — |
| 259 | June 11 | 5 19-8? | 6 43-6 | 6 44-7 | 8 38-7? | 2-7 | 3 16-9 | Disturbance possibly masked by fine air tremors. |
| 276 | " 16 | 1 42-5 | 1 43-4 | 1 44-7 | 2 6-5 | 2-7 | 0 24-0 | — |

1 mm. of amplitude = 0"·62.
Where no distinction of P.T. or L.W. can be made, the commencement of disturbance is entered in the column P.T. Commence.

Register from the Kodaikanal Observatory, Madras.
Director, C. MICHIE SMITH.

| No. | Date | Commencement G.M.T. | Maxima G.M.T. | Mm. | Seconds | Duration | Remarks |
|-----|---------|------------------------|------------------|-----|---------|------------------|--|
| | | | | | | | |
| 1 | Jan. 1 | H. M. S. 5 43-7 | H. M. S. | 1-0 | 0-5 | H. M. S. 2 31 | P.T.s 29m. |
| 2 | " 4 | 3 44-5 | 3 45-0 | — | — | 02 | Slight. |
| 3 | " 11 | 5 06-7 | 5 06-9 | — | — | 04 | " |
| 4 | " 12 | 22 14-5 | 22 34-9 | 0-5 | 0-2 | 1 10 | " |
| 5 | " 24-25 | 23 37-9 | 23 48-9 | 1-0 | 0-7 | 1 40 (?) | P.T.s 10m. |
| 6 | " 29 | 1 43-9 | 1 58-3 | 0-8 | 0-4 | 0 57 | " |
| 7 | " 30 | 14 10-6 | 14 19-9 | 1-0 | 0-5 | 1 20 | P.T.s 8m. |
| 8 | " 31 | 1 59-5 | 2 01-0 | 0-5 | 0-2 | 0 50 | " |
| 9 | Feb. 5 | 5 57-5 | 6 00-5 | 0-8 | 0-4 | 0 08 | " |
| 10 | " 9 | 7 57-5 | 8 00-5 | 0-5 | 0-3 | 1 12 | " |
| 11 | " 9 | 10 24-7 | 10 31-8 | 0-3 | 0-2 | 1 05 | " |
| 12 | " 13 | 9 47-6 | 10 02-6 | 0-5 | 0-3 | 0 55 | Slight. |
| 13 | " 15 | 21 39-0 | 21 45-1 | 0-3 | 0-2 | 0 16 | " |
| 14 | " 17 | 1 07-7 | — | — | — | 1 20 | " |
| 15 | " 25 | 15 43-6 | — | — | — | 0 25 | Widening of line. |
| 16 | Mar. 6 | 19 43-0 | — | — | — | 0 55 | Slight. |
| 17 | " 12 | 15 28-4 | — | — | — | 0 10 | Widening of line. |
| 18 | " 22 | 23 22-4 | — | — | — | 0 30 | Slight. |
| 19 | " 28 | 6 16-3 | — | — | — | 0 20 | Widening of line. |
| 20 | " 28 | 9 40-5 | 9 59-5 | 0-5 | 0-3 | 0 40 | " |
| 21 | " 28 | 13 54-9 | — | — | — | — | Single marks. |
| 22 | " 28 | 14 13-9 | 15 20-0 | 1-5 | 0-8 | 3 00 | P.T.s 7½m. |
| 23 | Apr. 7 | 13 19-3 | 13 20-0 | 0-6 | 0-3 | 0 15 | " |
| 24 | " 12 | 18 53-5 | — | 2-0 | 1-5 | — | Dislocation to W. Earthquake felt and heard. |

Register from the Kodaikānal Observatory, Madras—continued.

| No. | Date | Commence- ment G.M.T. | Maxima G.M.T. | Min. | Seconds | Duration | Remarks |
|-----|---------------|-----------------------------|--|------|---------|---------------|--|
| 25 | Apr. 17 | H. M. 20 19.0 | H. M. — | — | — | H. M. 0 18 | Widening of line. Earthquake felt at Simla and strongly at Srinagar. |
| 26 | " 19 | 2 39.0 | 3 00.4 | 0.8 | 0.6 | 1 50 | Guatemala. |
| | | | 06.7 | 0.5 | 0.4 | | |
| | | | 10.8 | 0.5 | 0.4 | | |
| | | | 47.2 | 0.4 | 0.3 | | |
| | | | 52.3 | 0.5 | 0.4 | | |
| 27 | " 21 | 17 40.2 | 17 57.4 | 1.0 | 0.7 | 1 30 | P.T.s 10m. |
| 28 | " 23 | 5 34.0 | — | — | — | — | Slight. |
| 29 | " 29 | 3 46.6 | — | — | — | — | Single marks. |
| | | 3 49.7 | — | — | — | — | |
| | | 6 06.2 | — | — | — | — | |
| 30 | " 30 | 8 13.4 | — | — | — | — | Single marks. |
| | | 14 16.6 | — | — | — | — | |
| | | 18.6 | — | — | — | — | |
| 31 | No record May | | 7, 9 ^h 30 ^m to May 9, 9 ^h 25 ^m | — | — | — | — |
| | May 12 | 14 12.1 | 14 13.9 | 0.5 | 0.3 | 0 05 | — |
| 34 | " 25 | 17 30.8 | — | — | — | 0 20 | Slight. |
| 35 | " 26 | 8 56.4 | 9 01.7 | 0.8 | 0.3 | 0 12 | — |
| 36 | " 31 | 4 54.4 | 4 54.4 | 1.0 | 0.4 | 0 05 | Single. |
| 37 | June 4 | 12 41.0 | — | — | — | — | Slight. |
| 38 | " 6 | 18 47.2 | 18 47.8 | 1.0 | 0.5 | 0 08 | — |
| | | | 49.4 | 0.6 | 0.3 | | |
| | | | 6 47.3 | 1.0 | 0.5 | | |
| 39 | " 11 | 6 42.1 | 6 47.3 | 1.0 | 0.5 | 0 40 | P.T.s 4m. |
| | | | 51.4 | 0.6 | 0.3 | | |
| 40 | " 16 | 1 46.2 | 1 47.2 | 0.8 | 0.4 | 0 15 | Felt at Naini Tal. |
| 42 | " 16 | 22 52.4 | 23 02.6 | 0.5 | 0.2 | 0 12 | — |
| 46 | " 28 | 14 29.8 | — | — | — | 0 20 | Slight. |

Register from Batavia, R. Magn. and Met. Observatory.
Director, Dr. S. FIGEE.

| No. | Date | Commence- ment | Durat. P.T. | Max. | Ampli- tude Double | Total Durat. | Remarks |
|--------------|--------|-------------------|----------------|------------------|--------------------------|-----------------|-------------|
| 1902. | | | | | | | |
| 347 | Jan 3 | H. M. 16 57.8 | M. — | H. M. 16 59.7 | MM. " 1.4 0.6 | MIN. 10 | Small. |
| 348 | " 9 | 0 2.8 | — | 0 8.4 | 0.7 0.3 | 60 | Very small. |
| 349 | " 12 | 22 23.1 | 4.2 | 22 29.6 | 1.8 7 | 80 | Strong. |
| | | | | 30.6 | 35 14 | | |
| | | | | 31.7 | 18 7 | | |
| | | | | 33.0 | 22 9 | | |
| 350 | " 26 | 17 7.9 | 1.0 | 17 9.0 | 3.0 1.3 | 20 | Small. |
| 351 | " 26 | 23 59.5 | 1.0 | 24 0.6 | 13.0 5.4 | 27 | Moderate. |
| 352 | " 30 | 14 10.0 | 8.0 | 14 18.4 | 2.7 3.0 | 30 | " |
| 353 | Feb. 3 | 23 25.9 | — | 23 27.2 | 3.1 3.4 | 25 | " |
| 354 | " 5 | 15 26.8 | 1.3 | 15 27.8 | 1.5 0.8 | 10 | Small. |
| | | | | 28.7 | 3.0 1.6 | | |
| 355 | " 7 | 4 43.7 | — | 4 43.9 | 1.1 0.6 | 6 | " |
| 356 | " 9 | 7 45.5 | 1.1 | 7 47.7 | 1.1 0.6 | 14 | " |

1+—5

Register from Batavia, R. Magn. and Met. Observatory—continued.

| No. | Date | Commence- ment | Durat. P.T. | Max. | Ampli- tude Double | Total Durat. | Remarks |
|------|---------|-------------------|----------------|---------|--------------------------|-----------------|------------------------------------|
| | | H. M. | M. | H. M. | MM " | MIN. | |
| 357 | Feb 24 | 4 11.7 | — | 4 15.8 | 1.2 0.6 | 21 | Small |
| 358 | " 25 | 15 42.4 | — | 15 52.0 | 6.0 3.0 | 45 | Moderate. |
| 359 | " 26 | 15 31.7 | — | 15 33.9 | 1.0 0.5 | 17 | Small. |
| 360 | Mar. 1 | 0 23.2 | — | 0 33.4 | 1.1 0.6 | 30 | " |
| 361 | " 2 | 1 13.6 | — | 1 14.5 | 0.6 0.3 | 4 | Very small. |
| 362 | " 3 | 5 11.1 | — | 5 12.7 | 1.2 0.6 | 5 | " |
| 363 | " 5 | 19 25.7 | — | 20 51.7 | 0.7 0.4 | 112 | Small. |
| 364 | " 9 | 20 3.2 | 3.4 | 20 7.9 | 1.6 0.9 | 20 | " |
| 365 | " 9 | 23 18.6 | — | 23 18.8 | 1.1 0.6 | 3 | Very small. |
| 366 | " 13 | 15 14.9 | 8.4 | 15 29.1 | 1.0 0.8 | 80 | Small. |
| | | | | 30.1 | 1.1 0.6 | | |
| | | | | 38.9 | 1.0 0.6 | | |
| | | | | 48.4 | 1.1 0.6 | | |
| 367 | " 19 | 1 49.9 | — | 1 52.1 | 1.3 0.7 | 9 | " |
| 368 | " 20 | 2 6.7 | — | 2 34.1 | 0.6 0.4 | 45 | Very small. |
| 369 | " 23 | 12 0.9 | — | 12 3.0 | 0.7 0.4 | 20 | Small. |
| 370 | " 28 | 6 10.3 | — | 6 16.0 | 2.0 1.1 | 19 | Severe at Halma- heira & Banda. |
| 371 | " 28 | 9 29.4 | — | 9 34.0 | 4.0 2.2 | 55 | " " |
| | | | | 40.2 | 5.2 2.7 | | |
| | | | | 43.2 | 4.1 2.2 | | |
| | | | | 45.0 | 4.1 2.2 | | |
| 372a | " 28 | 14 49.1 | — | 14 53.5 | 19.0 5.1 | 340 | Strong. |
| | | | | 59.5 | 30.0 17.0 | | |
| | | | | 15 3.4 | 15.0 8.4 | | |
| 372b | " 28 | 16 42.4 | — | 16 52.4 | 5.8 3.3 | 340 | Moderate. |
| | | | | 56.5 | 5.0 2.8 | | |
| | | | | 17 31.4 | 2.4 1.4 | | |
| 372c | " 28 | 17 17.7 | — | 17 19.4 | 0.9 0.5 | 40 | Very small. |
| 372d | " 28 | 17 40.7 | — | 18 2.4 | 1.4 0.8 | | |
| | | | | 18 2.4 | 1.4 0.8 | | |
| 373 | April 7 | 5 25.7 | — | 5 45.0 | 0.7 0.4 | 20 | Very small. |
| 374 | " 7 | 10 38.7 | — | 10 44.7 | 1.0 0.6 | 20 | Small. |
| 375 | " 8 | 20 28.7 | — | 20 29.9 | 1.3 0.6 | 8 | " |
| 376 | " 11 | 23 41.5 | — | 23 41.5 | 0.8 0.4 | 4 | Very small. |
| 377 | " 12 | 0 16.3 | — | 0 17.9 | 1.1 0.6 | 12 | " |
| 378 | " 13 | 3 33.1 | — | 3 33.7 | 0.9 0.5 | 20 | " |
| 379 | " 19 | 2 43.7 | — | 3 12.4 | 4.5 2.3 | 160 | Moderate. |
| 380 | " 21 | 18 37.3 | 6.6 | 18 46.7 | 3.2 1.6 | 80 | " |
| 381 | May 1 | 23 47.4 | — | 24 14.8 | 0.8 0.4 | 45 | Very small. |
| 382 | " 3 | 0 56.2 | — | 0 58.2 | 1.1 0.6 | 7 | " |
| 383 | " 6 | 23 34.2 | — | 23 36.0 | 1.0 0.7 | 5 | " |
| 384 | " 8 | 2 33.7 | — | 2 34.0 | 1.6 1.0 | 15 | " |
| 385 | " 10 | 22 20.7 | — | 22 23.0 | 0.6 0.5 | 25 | " |
| 386 | " 14 | 5 18.0 | — | 5 18.4 | 0.9 1.0 | 2 | " |
| 387 | " 19 | 12 31.0 | — | 12 31.7 | 1.6 2.0 | 4 | " |
| 388 | June 4 | 12 42.0 | — | 12 45.8 | 0.8 0.3 | 6 | " |
| 389 | " 11 | 6 13.7 | — | 6 51.0 | 1.4 0.5 | 112 | Moderate. |
| 390 | " 15 | 12 50.7 | — | 13 8.0 | 0.8 0.3 | 30 | Small. |
| 391 | " 18 | 1 27.4 | — | 1 27.5 | 0.6 0.2 | 2 | Very small |
| 392 | " 18 | 4 8.0 | — | 4 11.0 | 1.2 0.4 | 5 | " |
| 393 | " 18 | 4 47.0 | — | 4 47.5 | 0.4 0.2 | 3 | " |
| 394 | " 20 | 9 50.2 | — | 9 51.5 | 0.6 0.2 | 2 | " |
| 395 | " 25 | 3 56.3 | — | 4 5.4 | 1.0 0.3 | 12 | " |
| 396 | " 26 | 21 2.2 | — | 21 30.2 | 0.6 0.2 | 3 | " |
| 397 | " 27 | 8 13.7 | — | 8 14.5 | 1.0 0.3 | 4 | " |
| 398 | " 29 | 4 42.9 | — | 4 44.5 | 0.8 0.3 | 3 | " |
| 399 | " 29 | 5 22.0 | — | 5 23.0 | 0.5 0.2 | 2 | " |

Register from the Johns Hopkins University, Baltimore, Md., U.S.A.
Professor H. F. REID.

| No. | Date | P. T. Commence | Second Group Commence | Large Wave Commence | Maximum | End | Maximum Amplitude | Remarks |
|--|---------|----------------|-----------------------|---------------------|-----------|-----------|-------------------|--|
| 1902 | | | | | | | | |
| 68 | Jan. 1 | H. M. 5 32.2 | H. M. 5 40.5 | H. M. 6 1 | H. M. 6 2 | H. M. 8 0 | SEC. 5.8 | — |
| 70 | " 2 | 14 8 | — | — | — | — | — | Two or three small sudden displacements of pendulum. |
| 71 | " 3 | 13 0 | — | — | — | — | — | Slight widening of line also at 14 h. 5 m. |
| 74 | " 7 | 14 48.4 | — | — | — | — | — | Small disturbance. |
| 75 | " 9 | 0 21.2 | — | — | — | 0 28 | 0.2 | Small disturbance. No record Jan. 8, 14 h. to 15 h. |
| 76 | " 9 | 21 10.8 | — | — | — | — | — | Small disturbance. |
| 80 | " 14 | 14 49 | — | — | — | — | — | " " |
| 81 | " 16 | 22 21.5 | — | — | — | — | — | " " |
| 82 | " 17 | 0 4.8 | — | — | 0 6.3 | 0 28.4 | 0.6 | " " |
| 84 | " 18 | 23 31.5 | 23 38.3 | 23 41.6 | 23 42.1 | 24 26 | 1.7 | " " |
| 85 | " 21 | 21 53.9 | — | — | 22 5.2 | 22 37 | 0.6 | " " |
| 87 | " 23 | 19 43.6 | — | — | — | — | — | Small disturbance. Probably not E.Q. |
| 88 | " 23 | 16 1.5 | — | — | — | 16 32 | 0.4 | — |
| No record January 24, 5h. and 19h. | | | | | | | | |
| 90 | " 24-25 | 23 48.0 | 0 4.7 | 0 38.5 | 0 39.7 | 2 3 | 1.6 | — |
| 93 | " 28 | 18 46.6 | 18 51.2 | 18 57.0 | 18 58.4 | 20 5.3 | 3.4 | — |
| 94 | " 29 | 1 38.3 | — | — | 2 5.8 | 2 20.3 | 0.3 | Small disturbance. Possibly not E.Q. |
| 96 | " 30 | 14 25.1 | — | — | 15 4.2 | 16 16 | 0.6 | Starts suddenly; part of motion very slow. Apparently E.Q. |
| 97 | " 31 | 2 5.3 | — | — | — | 3 3 | 0.4 | Very like 96. |
| 99 | Feb. 3 | 16 19.3 | — | 19 25.3 | 19 26.3 | 19 43 | 0.4 | Small disturbance. |
| 102 | " 13 | 10 21 | — | 10 34.3 | 10 34.8 | 11 18 | 0.5 | Probably small E.Q. |
| 107 | " 17 | 0 35.7 | 0 40.1 | 0 45.2 | 0 49 | 2 57 | 8.5 | — |
| 108 | " 17 | 20 10 | — | — | — | 20 23 | 0.4 | Small disturbance continuing to next film. Probably E.Q. |
| 109 | " 17 | 21 36 | — | — | — | 21 46 | 0.3 | Small disturbance. Probably E.Q. |
| 111 | Mar. 5 | 19 18.6 | — | — | 19 39.4 | 20 46.4 | 0.7 | No dominant max. |
| 113 | " 12 | 15 35.5 | — | — | — | 17 | 0.4 | — |
| No record March 15, 20h., to March 16, 2h. | | | | | | | | |
| 115 | " 17 | 11 25.7 | 11 34.6 | 11 36.5 | 11 37.3 | 12 28 | 1.0 | — |
| No record March 17, 19h., to 20h. | | | | | | | | |
| 116 | " 18 | 21 10 | — | — | — | — | — | — |
| 118 | " 20 | — | — | 21 11.5 | 21 12 | 21 27 | 0.4 | Probably small E.Q. |

Register from the Johns Hopkins University, Baltimore, Md., U.S.A.—continued.

| No. | Date | P. T. Commence | Second Group Commence | Large Waves Commence | Maximum | End | Maximum Amplitude | Remarks |
|-----|---------|----------------|-----------------------|--|---------|-------------|-------------------|---|
| 119 | Mar. 22 | — | — | H. M. 22 42.3 { H. M. 22 45.3 } 22 51.2 | — | H. M. 24 20 | SEC. 6.0 | Well marked E.Q. No P.T. 2nd 6m. just like 1st, 6m., after that movement small. |
| 120 | " 24 | 17 57.2 | — | 18 1.2 | 18 2.2 | 18 51 | 3.5 | — |
| 121 | " 25 | 3 41 | — | 3 45 | 3 46 | 4 46 | 2.3 | — |
| 122 | " 28 | 15 6.5 | — | — | — | 17 23 | 0.5 | No well marked max. |
| 123 | Apr. 5 | 19 12.8? | 19 33.8 | — | 19 40.8 | 20 13 | 0.6 | Several swellings of lines. |
| 124 | " 9 | 19 18.7 | 19 28.2 | — | 19 31.4 | 19 47 | 0.8 | — |
| 125 | " 12 | 0 17.7 | — | — | — | 1 54 | 0.4 | — |
| 126 | " 19 | — | 2 30.1 | 2 36.6 { 2 40.3 } 2 41.8 | — | 5 30 | 18+ | Strongest disturbance yet recorded here. Origin Guatemala. |
| 127 | " 22 | 15 43.7 | — | — | — | 26 4 | 0.5 | Sudden disturbance dying out. Probably not E.Q. |
| 128 | " 27 | 11 0 | — | — | — | 15 0 | — | Small variations in width of line. |
| 129 | May 2 | 12 27.6 | — | — | 12 39.4 | 13 6 | 0.4 | — |
| 132 | " 26 | 17 32.1 | — | — | — | 18 1 | 0.3 | Very slight disturbance, lines not accurate. |
| 133 | " 26 | 22 33.1 | — | — | — | 22 42 | 0.3 | " " |

The pendulum period was 15 seconds.

Register from the Royal Alfred Observatory, Mauritius.
Director, T. F. CLAXTON, F.R.A.S.

| Register No. | Date | Commence-ment of disturbance | Duration of P.T.'s | Times of Maxima | Amplitude | End of Disturbance | Remarks |
|--------------|--------|------------------------------|--------------------|-------------------------|-----------|--------------------|--|
| 1901. | | | | | | | |
| 132 | May 7 | H. M. 10 21.2 | — | H. M. 10 22.9 0 23.5 | — | H. M. 10 40.1 | An isolated thickening occurred from 10h. 18m. to 10h. 18.9m. Slight tremors lasted till 10h. 59.3m. |
| 133 | " 12 | 8 15.6 | — | 8 19.7 | — | 8 21.6 | Slight thickening. |
| 134 | " 14 | 7 15.6 | 0 33.6 | 7 52.4 | — | 8 17.8 | After tremors last from 7h. 54.3m. |
| 135 | " 18 | 14 5± | — | 14 7.3 | — | 14 13 ± | Mere thickening. |
| 136 | " 19 | 15 40.0 | — | 15 41.0 | — | 15 50 ± | " " |
| 137 | " 21 | 1 38.0 | — | 1 43.1 1 46.0 | 0.17 | 1 50.3 | — |
| 138 | June 2 | 1 26.7 | 0 12.3 | 1 42.0 1 45.4 | — | 1 49.2 | Tremors continued for some hours after, but apparently are not seismic. |
| 139 | " 9 | 19 54.1 | — | — | — | 20 12.5 | Several vibrations. |
| 140 | " 13 | 4 17.2 | — | 4 25.0 | — | 4 39.1 | Small vibrations. |

Register from Royal Alfred Observatory, Mauritius—continued.

| Register No. | Date | Commencement of disturbance | | Duration of P.T.'s | Times of Maxima | Amplitude | End of Disturbance | Remarks |
|--------------|---------|-----------------------------|--------|--------------------|-----------------|-----------|--------------------|--|
| | | H. M. | H. M. | | | | | |
| 141 | June 14 | 23 34.0 | 0 6.1 | — | 23 43.1 | — | 23 45.2 | Mere thickening. |
| 142 | " 16 | 20 8.1 | — | — | 20 8.9 | — | 20 9.6 | " " |
| 143 | " 19 | 9 48.2 | — | — | 9 50.3 | — | 9 50.3 | " " |
| 144 | " 23 | 21 20.8 | — | — | 21 28.5 | 0.09 | 21 30.2 | Slight tremors till 21h. 35.1m. |
| 145 | July 29 | 4 54.3 | — | — | 4 67.3 | — | 4 58.4 | Small tremors occurred from 4h. to 5h. only the movement at time given looks seismic. |
| 146 | Aug. 6 | 13 17.7 | 0 46.8 | — | 19 6.1 | 0.10 | 19 40 ± | After tremors lasted from 19h. 8.2m. Both P.T.'s and after T's were very faint. |
| 147 | " 9 | 13 16.8 | 0 12.2 | — | 13 31.9 | 1.33 | — | Extraordinary movements occurred on this day between 6h. and 12h. The disturbance which followed is too large for full description. Movements were very irregular and active between 13h. and 14h.; they became quieter by about 15h. and increased again to Max. No. 5, although in this recrudescence they were not so erratic. Movements again became very small by 16h. and remained so until 19h. when disturbance No. 148 broke out. *Tremors continued throughout the day after this. |
| 148 | " 9 | 19 0 ± | 0 26.4 | — | 15 25.0 | 0.45 | — | Several thickening of the trace between 10h. and 12h.; times of principal max. given. |
| 149 | " 15 | — | — | — | 10 46.2 | — | — | Ditto between 9h. and 10h. |
| 150 | " 16 | — | — | — | 10 8.9 | — | — | Ditto between 20h. and 21h. |
| 151 | " 18 | — | — | — | 20 34.0 | — | — | Ditto between 10h. 23.7m. and 47m. |
| 152 | " 21 | 10 23.7 | — | — | 10 25.0 | — | 10 47.1 | After tremors lasted from 4h. 5.2m. and continued for some hours. |
| 153 | " 29 | 3 53.7 | 0 6.5 | — | 4 1.8 | 0.85 | — | After tremors lasted from 22h. 37.2m. *Maxima, 2-6 were mere thickenings of the trace. |
| 154 | " 30 | 22 8.6 | 0 18.2 | — | 22 34.0 | 0.26 | 22 53.3 | Very slight thickening. Slight movements usually occur at this time, and are probably due to air tremors. They have only been recorded when they have the characteristic seismic appearance. |
| 155 | Sept. 1 | 13 1.5 | — | — | — | — | 13 11.7 | Slight thickening of trace. |
| 156 | " 3 | — | — | — | 4 12.0* | — | — | Air tremors occurred from 7d. 22h. to 8d. 3h., but several movements between 7.23 and 23 appear to be of seismic origin. |
| 157 | " 7 | 1 26.7 | — | — | — | — | 1 33.0 | After tremors lasted from 18h. 51.0m. |
| 158 | " 8 | 18 0.4 | 0 39.1 | — | 18 40.3 | 0.56 | — | |
| | | | | | 0 42.1 | 0.36 | | |
| | | | | | 0 43.4 | 0.39 | | |
| | | | | | 0 45.4 | 1.12 | | |
| | | | | | 0 47.0 | 1.04 | | |

Register from Royal Alfred Observatory, Mauritius—continued.

| Register No. | Date | Commencement of disturbance | | Duration of P.T.'s | Times of Maxima | Amplitude | End of Disturbance | Remarks |
|--------------|----------|-----------------------------|--------|--------------------|-----------------|-----------|--------------------|---|
| | | H. M. | H. M. | | | | | |
| 160 | Sept. 10 | 4 42.0 | — | — | — | — | — | Several thickenings. |
| 161 | " 10 | 6 56.0 | — | — | — | — | — | Several slight thickenings. |
| 162 | " 15 | 21 17.0 | — | — | 21 21.6 | 0.19 | — | — |
| 163 | " 16 | 15 15.9 | — | — | — | — | — | Several thickenings. |
| 164 | " 22 | 21 30.1 | — | — | — | — | — | Isolated thickenings. |
| 165 | " 24 | 8 12.6 | — | — | 8 23.1 | — | 9 25.4 | Several thickenings. |
| | | | | | 8 24.7 | 0.30 | — | |
| | | | | | 8 31.2 | — | — | |
| | | | | | 9 0.9 | — | — | |
| 166 | " 28 | 16 5.7 | — | — | 16 8.0 | 0.27 | 16 12.8 | Several isolated thickenings occurred between 16h. 5.7m. and 17h. 0.9m. Principal only given. |
| | | | | | 16 9.0 | 0.27 | — | |
| | | | | | 16 39.0 | — | 16 40.8 | |
| | | | | | 16 49.8 | — | 16 45.2 | |
| 167 | " 30 | 10 44.4 | 0 39.5 | — | 11 24.8 | — | 12 50.2 | After tremors lasted from 11h. 35.7m. and died away gradually. |
| | | | | | 11 27.0 | — | — | |

Register from the Botanical Department, St. Clair, Trinidad, B.W.I.
Superintendent, J. H. HART, F.L.S.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Duration | Remarks |
|--------------|---------|---------------|---------------|------------|-----------|----------------|-----------|----------------------------|
| 1902. | | | | | | | | |
| 54 | Jan. 1 | H. M. 6 ? | H. M. 6 20 | H. M. 6 24 | H. M. 7 ? | MM. 4 | H. M. 1 ? | Merged in morning tremors. |
| 55 | " 1 | 15 50 | — | 15 50 | 16 53 | 1 | 0 3 | — |
| 56 | " 18 | 23 33 | 23 39 | 23 41 | 23 57 | 1 | 0 24 | — |
| 57 | " 21 | 21 51 | 21 55 | 21 55 | 22 6 | 6 | 0 15 | — |
| 58 | " 27 | 19 31 | 19 33 | 19 38 | 19 51 | 1 | 0 20 | — |
| 59 | " 28 | 18 51 | 18 53 | 19 2 | 19 26 | 3 | 0 35 | — |
| 60 | Feb. 5 | 1 22 | — | — | — | — | 0 4 | Thickenings of line. |
| 61 | " 7 | 1 37 | — | — | — | — | 0 4 | — |
| 62 | " 17 | 0 34 | 0 40 | 0 46 | 2 12 | 14 | 1 38 | — |
| 63 | " 18 | 21 56 | — | — | — | — | 0 5 | Thickening of line. |
| 64 | March 5 | 19 16 | 19 20 | 19 24 | 20 18 | full swing | 1 2 | — |
| 65 | " 5 | 20 51 | — | 20 56 | 20 59 | 1.5 | 0 8 | — |
| 66 | " 22 | 23 2 | 23 8 | 23 18 | 23 38 | 2 | 0 34 | — |
| 67 | " 24 | 18 1 | 18 11 | 18 16 | 18 36 | 3.5 | 0 35 | — |
| 68 | May 3 | 17 51 | — | 17 52 | 17 55 | 1.5 | 0 4 | — |
| 69 | " 6 | 14 15 | — | 14 15 | 14 19 | 1 | 0 4 | — |
| 70 | " 7 | 16 42 | — | 16 42 | 16 45 | 1 | 0 3 | — |
| 71 | " 10 | 13 3 | 13 6 | 13 14 | 13 21 | 3 | 0 18 | — |
| 72 | " 10 | 14 6 | — | 14 9 | 14 11 | 2 | 0 5 | — |
| 73 | " 14 | 14 58 | — | 15 1 | 15 11 | 1.5 | 0 13 | — |
| 74 | " 31 | 13 1 | — | 13 1 | 13 4 | 1.5 | 0 3 | — |
| 75 | " 31 | 14 1 | — | 14 3 | 14 7 | 1.5 | 0 6 | — |
| 76 | June 4 | 13 12 | — | 13 12 | 13 15 | 1.5 | 0 3 | — |
| 77 | " 7 | 14 3 | — | 14 5 | 14 5 | 1 | 0 2 | — |
| 78 | " 14 | 14 40 | — | 14 40 | 14 43 | 1.5 | 0 3 | — |
| 79 | " 14 | 17 4 | — | 17 4 | 17 7 | 2 | 0 3 | — |
| 80 | " 24 | 14 40 | — | 14 40 | 14 46 | 2 | 0 6 | — |
| 81 | " 26 | 17 14 | — | — | — | — | 0 2 | Thickening of line. |
| 82 | " 28 | 19 33 | — | 19 34 | 19 36 | 2 | 0 3 | — |

Register from Perth, Western Australia.
Director, W. E. COOKE, M.A., F.R.A.S., &c.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Remarks |
|--------------|--------|---------------|---------------|-----------|-----------|----------------|-----------------------------------|
| 1902. | | | | | | | |
| 14 | Jan. 1 | H. M. 5 46 | H. M. — | H. M. — | H. M. 6 1 | MM. — | Slight thickening of trace. |
| 15 | " 9 | -- | 0 17 | 0 29 | 1 24 | 0.55 | — |
| 16 | " 12 | about | 22 33 | 22 42 | 23 32 | 10.5 | — |
| 17 | " 20 | 6 0 | — | — | 9 0 | — | Slight thickening of trace. |
| 18 | " 21 | 10 25 | 10 32 | 10 35 | 11 10 | 2.0 | — |
| 19 | " 24 | — | 23 36 | 23 55 | 26 47 | 8.0 | — |
| 20 | " 30 | — | 14 23 | 14 24 | 15 50 | 0.95 | — |
| 21 | Feb. 3 | 23 32 | 23 37 | 23 41 | 24 35 | 3.05 | — |
| 22 | " 15 | 21 0 | — | — | 23 30 | — | Slight thickening of trace. |
| 23 | " 16 | — | 12 33 | 12 42 | 12 54 | 0.5 | — |
| 24 | " 17 | 0 55 | 1 53 | 2 11 | 3 22 | 1.0 | — |
| 25 | " 24 | (1 41)? | 1 56 | 1 59 | 2 10 | 0.3 | P.T. doubtful. Slight thickening. |
| 26 | " 25 | — | 15 50 | 15 58 | 16 26 | 2.5 | — |
| 27 | Mar. 3 | — | — | 11 10 | 11 15 | 1.0 | — |
| 28 | " 5 | 19 41 | 20 12 | 20 22 | 21 31 | 0.65 | — |
| 29 | " 31 | 15 52 | 16 5 | 16 10 | 16 38 | 1.1 | — |
| 30 | Apr. 7 | 5 31.8 | 5 39.5 | 5 41.9 | 6 31.8 | 3.15 | — |
| 31 | " 7 | 10 44 | — | 10 54 | 11 5 | 0.4 | Thickening of trace. |
| 32 | " 11 | 20 27 | 20 30 | 20 32 | 20 57 | 0.8 | — |
| 33 | " 12 | 0 44 | — | — | 2 23 | — | Thickening of trace. |
| 34 | " 13 | 3 9 | — | 3 49 | 4 15 | 0.25 | " " |
| | | | | { 3 3.9 | | 2.3 | |
| | | | | { 3 30.4 | | 2.25 | |
| | | | | { 4 1.3 | | 2.3 | |
| | | | | { 4 3.1 | | 2.45 | |
| 35 | " 19 | — | 2 43.8 | — | 5 40.5 | — | Thickening of trace. |
| 36 | " 19 | 10 55.1 | — | — | 11 35.3 | 0.3 | " " |
| 37 | " 20 | 18 44 | — | — | 18 50 | — | " " |
| 38 | " 20 | 21 49 | — | — | 22 35 | — | " " |
| 39 | " 21 | — | 17 38.6 | 17 50.3 | 19 16.1 | 2.25 | — |
| 40 | May 5 | — | 6 6.3 | 6 8.4 | 6 19.2 | 0.5 | — |
| 41 | " 11 | 22 25.1 | 22 33.2 | 22 42.1 | 23 2.7 | 0.95 | — |
| 42 | " 22 | 20 0 | — | — | 25 0 | — | Thickening of trace. |
| 43 | " 24 | — | 16 30.8 | 16 31.7 | 16 39.8 | 1.5 | — |
| 44 | " 26 | 13 11.6 | 13 24.0 | 13 25.7 | 13 56.6 | 0.55 | — |
| 45 | " 27 | 16 39.2 | 16 45.0 | 16 47.0 | 16 53.4 | 0.3 | — |
| 46 | " 30 | 8 59.5 | 9 11.5 | 9 14.1 | 9 24.3 | 0.6 | — |
| 47 | June 7 | 21 57 | — | — | 22 21 | — | Thickening of trace. |
| 48 | " 13 | 7 57 | — | — | 8 3 | — | Very slight thickenings of trace. |
| | | | | { 12 54.6 | | 0.5 | |
| | | | | { 13 2.1 | | 0.45 | |
| | | | | { 13 6.9 | | 0.45 | |
| 49 | " 15 | 12 35.4 | 12 53.1 | — | 14 11.3 | — | — |
| | | | | { 18 40.9 | | 0.75 | |
| 50 | " 17 | 18 29.1 | 18 33.6 | — | 19 15.5 | — | — |
| | | | | { 5 26.4 | | 1.35 | |
| | | | | { 5 28.1 | | 1.35 | |
| 51 | " 19 | 5 9.4 | 5 23.3 | — | 6 1.3 | — | — |
| | | | | { 7 20.0 | | 0.2 | |
| 52 | " 21 | — | 7 16.1 | — | 7 48.1 | — | — |
| | | | | { 6 4.7 | | 1.25 | |
| | | | | { 6 7.2 | | 1.25 | |
| 53 | " 26 | — | 5 57.6 | — | 7 0.2 | — | — |
| 54 | " 30 | 11 43 | — | — | 22 15 | — | Slight thickenings continually. |

1 mm. amplitude = 0"60.

Register from Wellington, New Zealand. Observer, G. HOGGEN, M.A.

The instrument, a Milne Seismograph No. 20, is placed in a special room below a house standing about 30 feet from the edge of a rocky cliff about 50 feet in height, situated about 250 yards from the shore-line of Wellington Harbour.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Remarks |
|--------------|---------|---------------|---------------|-------------|-------------|----------------|-----------------------|
| 1900. | | | | | | | |
| 9 | Oct. 7 | H. M. 19 12 | H. M. 21 24.5 | H. M. 21 31 | H. M. 22 50 | MM. 11 | — |
| 10 | " 8 | — | — | — | 2 20 | — | — |
| 11 | " 8 | 0 47 | — | 8 37 | 9 7 | 10 7 | 3.5 |
| 15 | " 9 | — | 13 6 | 13 26 | 15 13 | 5.5 | — |
| 16 | " 16 | — | 11 13 | 11 18.5 | 11 24.5 | — | Local. |
| 17 | " 20 | 17 29 | 18 48 | 18 55 | 19 26 | 1.7 | — |
| 19 | " 22 | 23 2 | — | — | — | — | — |
| | " 23 | — | — | — | 3 55 | — | — |
| 26 | Dec. 18 | — | 22 25 | 22 27.5 | — | 19 | Airtremors? |
| | " 19 | — | — | — | 10 24 | — | — |
| 27 | " 22 | 18 25 | — | — | — | — | — |
| | " 23 | — | 7 27 | 7 27 | 16 11 | — | — |
| 1901. | | | | | | | |
| 40 | Jan. 7 | 0 51.5 | 1 13.7 | 1 21 | 1 29.5 | 3.7 | — |
| 45 | " 8 | 22 0 | — | 22 28.5 | — | — | — |
| 87 | May 12 | 15 8 | — | 15 21 | — | 1 | Local? |
| 127 | Aug. 9 | 9 38 | 10 5 | 10 34 | 11 36 | 3 | — |
| 128 | " 9 | — | 13 8 | 13 55 | — | 20 | — |
| 129 | " 9 | — | 16 6 | 16 14 | 17 34 | 2.5 | — |
| 130 | " 9 | 18 30 | 19 14 | 19 40 | 21 50 | 2 | — |
| 131 | " 10 | 10 29 | 10 48 | 10 53 | 12 13 | 3 | — |
| 136 | " 11 | 14 6 | 14 37 | 14 42 | 16 34 | 5.5 | — |
| 144 | " 18 | 20 8 | — | — | — | — | Airtremors? |
| | " 20 | — | — | — | 9 16 | — | — |
| 154 | Sept. 7 | 23 0 | 23 8 | 23 11 | 23 48 | 2 | — |
| 155 | " 8 | 17 49 | 18 1 | 18 2 | — | 8 | — |
| | " 10 | — | — | — | 7 50 | — | — |
| 158 | Oct. 18 | — | 21 51 | 21 51 | — | 0.7 | — |
| 159 | Nov. 15 | — | 20 17 | 20 17.5 | 21 28 | 20 | Origin, Cheviot, N.Z. |
| 163 | " 25 | 2 2 | 2 20 | 2 23 | 3 26 | 4 | — |
| 178 | Dec. 26 | 10 8 | 10 10.5 | 10 14.5 | 11 44.7 | 3.2 | — |
| 182 | " 31 | 9 26 | 9 51.2 | 9 55.7 | 10 8 | 1 | — |
| 1902. | | | | | | | |
| 203 | Jan. 18 | 0 39 | — | — | 6 35 | — | Very small. |
| 207 | " 24 | 23 36.7 | — | 23 41.5 | — | 8 | — |
| | " 25 | — | — | — | 0 9.2 | — | — |
| 208 | Feb. 9 | 7 41.7 | 7 45.7 | 7 46.5 | 8 55.5 | 3 | — |
| 211 | " 26 | — | — | 16 17 | — | 0.7 | — |
| 214 | Mar. 5 | 19 24.2 | 19 48.2 | 19 54.5 | — | 1.7 | — |
| | " 6 | — | — | — | 0 30 | — | — |
| 217 | " 12 | — | 15 14 | 15 21.5 | 16 42.7 | 4.8 | — |
| 226 | " 23 | 1 33 | — | 1 39 | — | 0.6 | Tremors? |
| 230 | " 28 | — | 5 48.7 | 5 51 | 5 44.5 | 1 | — |
| | " 28 | 9 48.7 | 10 2 | 10 3 | 10 12.5 | 0.7 | — |
| 231 | " 28 | — | — | 10 16 | — | 1.5 | — |
| 232 | " 28 | 14 34 | 15 3.2 | 15 19 | 15 43 | 4 | — |
| 233 | — | — | — | 17 16.2 | — | — | — |

Register from Wellington, New Zealand--continued.

| No. | Date | P.T. Commence | | L.W. Commence | | Max. | End | Max. Amplitude | Remarks |
|-----|----------|---------------|---------|---------------|---------|------|-----|----------------|---------|
| | | H. M. | H. M. | H. M. | H. M. | | | | |
| 234 | — | — | — | 18 13 | — | — | — | — | — |
| 240 | Mar. 31 | 15 56.2 | 16 1 | 16 4.7 | 16 13.7 | 1 | — | — | — |
| 258 | April 19 | 2 38 | 2 47 | 3 39 | 5 9.2 | 20 | — | — | — |
| 261 | " 20 | — | 21 44.5 | — | 21 51 | — | — | — | — |
| 273 | May 7 | — | — | 15 31.2 | — | — | — | — | — |
| 274 | " 7 | 21 37 | — | — | — | — | — | — | — |
| " | 8 | — | — | 2 57.7 | 3 11 | 0.7 | — | — | — |
| 275 | " 8 | — | — | 13 25.7 | 13 31.7 | 0.8 | — | — | — |
| 297 | " 31 | — | — | 9 51 | — | — | — | — | — |
| 303 | June 5 | 20 46 | — | — | 20 56 | — | — | — | — |
| 305 | " 15 | — | 12 26.5 | 12 31 | 12 32.5 | 2.6 | — | — | — |
| 311 | " 26 | 0 34 | 5 49 | 5 52 | 7 46 | 1 | — | — | — |

In the Wellington Register there are 314 entries, from which the above have been selected. The period of the boom was kept at 16.5 seconds.

Register from the Magnetic Observatory, Christchurch, New Zealand.
Director, DR. C. COLERIDGE FARR.

Records were commenced on this instrument on November 19, 1901. The instrument is erected in a brickfield, standing on a concrete foundation sunk to a depth of about 4 ft. 6 in. The concrete is of the form of a truncated pyramid of square section, the length of whose side at the bottom is 4 ft. 6 in. and on the top 1 ft. 6 in., from which rises a square sectioned brick pillar. The geological formation is an alluvial plane of considerable thickness, in which are several water-bearing strata. From these the people of Christchurch derive their artesian water.

P.T.=Preliminary Tremors less than 2mm. complete range; A.T.=After Tremors less than 2mm. complete range; B.E.=Beginning and end of vibrations not less than 2mm. Amp.= $\frac{1}{2}$ range in millimetres; B.P.=Boom Period; Midnight = 0h. or 24h.

| No. | Date | P.T. | B. | Maxima | | Amp. | E. | A.T. Till | B.P. | Remarks |
|-------------|---------|---------|---------|---------|---------|------|---------|-----------|------|---------|
| | | | | From | To | | | | | |
| 1901 | | | | | | | | | | |
| 1 | Nov. 23 | — | — | 4 49 | 4 52 | — | — | — | — | — |
| 2 | " 25 | 1 30 | 2 18 | 2 19 | 2 20.5 | 1.5 | 2 22 | 3 0 | 20 | — |
| 3 | Dec. 5 | — | — | 13 30 | 13 31.5 | 1 | — | — | — | — |
| 4 | " 5 | 17 31.5 | — | 17 43.9 | 17 43.9 | 2.5 | 17 44.3 | 20 0 | 20 | — |
| 5 | " 6 | ? | 14 19.2 | 14 19.7 | 14 19.7 | 4 | 14 27.1 | ? | 20 | — |
| 6 | " 8 | 14 43 | 15 8.3 | 15 7.3 | 15 9.6 | 1.8 | 15 10.3 | 16 42 | 20 | — |
| 7 | " 14 | 23 10 | 23 29 | 23 36 | 23 36 | 1.7 | 23 54 | 7 0 | 15 | — |
| 8 | " 27 | — | — | 8 19.6 | — | — | 8 30 | 17 | — | — |
| 9 | " 30 | 22 50 | 23 36.4 | 23 29 | 23 32 | 1.6 | 23 36.6 | 1 25 | 18 | — |
| 10 | " 31 | 6 31.3 | — | 6 38.1 | 6 41.5 | 0.6 | — | 7 10 | 18 | — |

Register from the Magnetic Observatory, Christchurch, New Zealand--cont.

| No. | Date | P.T. | B. | Maxima | | Amp. | E. | A.T. Till | B.P. | Remarks |
|-------------|---------|--------------|--------------|--------------|-------------|-----------|---------|-----------|---------|--|
| | | | | From | To | | | | | |
| 11 | Dec. 31 | H. M. 9 26.6 | H. M. 9 27.6 | H. M. 9 52.5 | H. M. 5 8.5 | — | — | — | — | — |
| | | | | 10 1.8 | — | — | — | — | — | — |
| | | | | 0 3.7 | — | 3 | — | — | — | — |
| 1902 | | | | | | | | | | |
| 12 | Jan. 1 | 5 44.5 | 6 9.7 | 6 18.0 | — | — | 5.1 | 6 23 | 8 40 | 20 |
| 13 | " 2 | — | — | 15 4.5 | 15 7.3 | — | — | — | — | — |
| 14 | " 8 | 23 59.7 | — | 0 7.7 | — | — | 1.1 | — | 6 47 | 18 |
| 15 | " 12 | 22 39.5 | 23 54.7 | 23 8 | — | — | 2.6 | 23 10 | 0 7 | 18 |
| 16 | " 15 | 6 30.2 | — | 6 36.5 | — | — | 0.4 | — | 6 42 | 18 |
| 17 | " 17 | 7 18.5 | — | 6 46.8 | — | — | 0.4 | — | 7 18 | 18 |
| 18 | " 18 | 23 49.3 | — | 0 9.7 | 0 28.3 | — | 0.3 | — | 12 39 | 18 |
| 19 | " 21 | 10 13 | — | 10 22.3 | — | — | 0.6 | — | 10 35.5 | 18 |
| 20 | " 21 | 22 32.3 | — | 22 41.5 | — | — | 0.4 | — | 23 2 | 18 |
| 21 | " 22 | 6 17 | — | 6 23 | — | — | 0.3 | — | 6 28.2 | 18 |
| 22 | " 24 | — | — | 10 6.5 | — | — | — | — | — | 18 |
| 23 | " 24 | 23 34.7 | 23 39.7 | 23 48.6 | — | — | 16.7 | — | — | 18 |
| | | | | | | | | | | Very sharp tremor. Magnetograph much affected from 11h. Om. to 11h. 39m. |
| | | | | | | | | | | Very sharp tremor. The largest 'shock' recorded to this date, but not felt personally. |
| | | | | 0 49.3 | 23 51.5 | (over 17) | — | — | — | — |
| | | | | 0 55.6 | 7.5 | — | — | — | — | — |
| | | | | 0 57.8 | 5.2 | 0 49.1 | 3 30 | — | — | — |
| 24 | " 26 | 4 30.7 | — | 4 36.6 | — | — | 0.7 | — | 4 43 | 18 |
| 25 | " 26 | 5 34 | — | 5 36 | 5 41 | — | 0.3 | — | 5 44 | 18 |
| 26 | " 28 | 7 26 | — | 7 28 | — | — | 0.3 | — | — | 18 |
| 27 | " 30 | 14 29.2 | 14 50.8 | 15 1.5 | 15 3 | — | 2.0 | 15 8.2 | 16 0 | 18 |
| 28 | Feb. 3 | 23 34.8 | 23 48.7 | 23 50.6 | — | — | 3.2 | — | — | 18 |
| | | | | 0 53.4 | — | — | 1.8 | — | — | — |
| | | | | 0 55.4 | — | — | 1.9 | — | — | — |
| | | | | | 23 56.5 | 1.8 | 0 1.7 | 0 3 | — | — |
| 29 | " 9 | 7 40.8 | 7 45.9 | 7 49.9 | 7 52 | 17.0 | 8 30.5 | Indef. | — | 18 |
| 30 | " 9 | Indef. | 10 15.9 | 10 20 | 10 22.3 | 17.0 | 11 12.9 | 11 21.0 | — | 18 |
| 31 | " 9 | 20 25.9 | 20 29.8 | 20 30.3 | — | — | 1.2 | 20 31.6 | 20 43.2 | 18 |
| 32 | " 10 | 22 21.8 | — | 22 23 | — | — | 0.2 | — | 22 26.8 | 18 |
| 33 | " 11 | 0 66.3 | — | 1 10.6 | — | — | 0.5 | — | 1 19.9 | 18 |
| 34 | " 11 | 2 10 | — | 2 12.8 | — | — | 0.9 | — | 2 28 | 18 |
| 35 | " 13 | 10 59.7 | — | 11 9.7 | — | — | 0.3 | — | 10 55.9 | 18 |
| 36 | " 17 | 0 54.8 | 1 24.4 | 1 31.5 | — | — | 1.1 | 1 35.2 | 3 11 | 18 |
| 37 | " 24 | 1 38 | — | 1 39.7 | — | — | 0.1 | — | 1 54.5 | 18 |
| 38 | " 26 | 13 34.6 | — | 13 39.2 | — | — | 0.3 | — | 13 45.3 | 18 |
| 39 | March 1 | 0 34.6 | — | 1 3.2 | — | — | 0.2 | — | 13 30 | 18 |
| 40 | " 3 | 10 61.7 | — | 11 0.4 | — | — | 0.8 | — | Indef. | 18 |
| | | | | | | | | | | Slight tremor; storm afterwards. |
| 41 | " 5 | 19 31.2 | 19 47.6 | 19 51.6 | — | — | 2.9 | 19 57.2 | 20 38.4 | 18 |
| 42 | " 10 | 4 37.8 | — | 4 53.8 | — | — | 0.2 | — | 5 38.6 | 18 |
| 43 | " 12 | 15 15 | 15 15.5 | 15 20.2 | — | — | 4.7 | — | — | 18 |
| | | | | 0 24.2 | — | — | 4.5 | — | — | — |
| | | | | 0 26.2 | — | — | 4.0 | 15 35.4 | 17 59.7 | — |
| 44 | " 22 | 23 14 | — | 23 31.8 | — | — | 0.8 | — | — | 17 |
| 45 | " 23 | 1 34.3 | — | 1 39.8 | — | — | 0.5 | — | 1 56.3 | 17 |
| 46 | " 25 | 4 25.7 | — | 4 28.3 | — | — | 0.1 | — | 4 48.5 | 17 |
| 47 | " 28 | 5 46.8 | — | 5 47.4 | 5 49.3 | — | 0.6 | — | 6 6.2 | 17 |
| 48 | " 28 | 9 42 | — | 10 3.5 | — | — | 1.0 | — | 10 37.2 | 17 |
| 49 | " 28 | 14 53.8 | 15 3.4 | 15 23.3 | — | — | 4.2 | — | — | — |
| | | | | 0 24.7 | — | — | 4.0 | — | — | — |
| | | | | 0 29.2 | — | — | 3.1 | 15 38.7 | 18 11 | 17 |

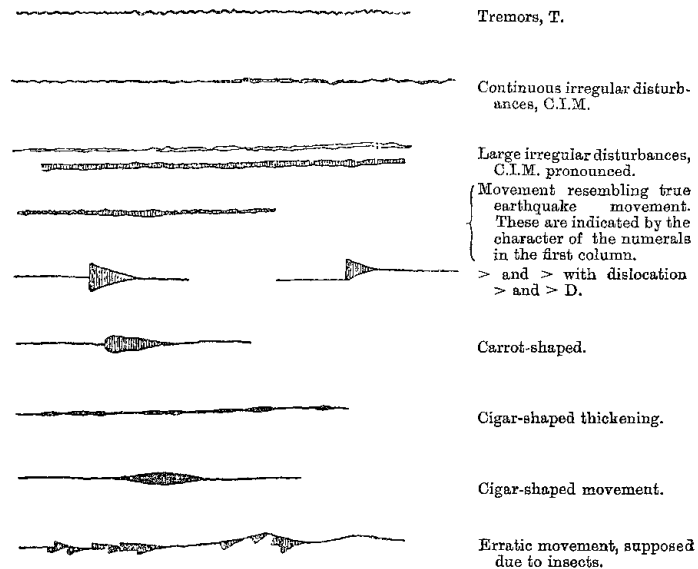
Register from the Magnetic Observatory, Christchurch, New Zealand—continued.

| No. | Date | P.T. Commence | L.W. Commence | Max. | End | Max. Amplitude | Duration | Remarks |
|--------------|---------|---------------|---------------|---------|---------|----------------|----------|---------------------------|
| 1962. | | | | | | | | |
| 50 | Mar. 31 | H. M. | H. M. | H. M. | H. M. | MM. | H. M. | |
| 51 | April 1 | — | — | 16 08.5 | — | 0.8 | — | — |
| 52 | " 6 | 06 53.2 | — | 9 11 | — | 0.2 | — | — |
| 53 | " 7 | 2 31 | — | 8 12.7 | — | 0.2 | — | — |
| 54 | " 7 | 5 39 | — | 6 58 | — | 0.3 | 00 12 | — |
| 55 | " 7 | 8 02.2 | — | 2 34.2 | — | 0.3 | 00 23 | — |
| 56 | " 9 | Indef. | — | 5 52.2 | — | 1.0 | 01 04.7 | — |
| | | | | 8 07.5 | — | 0.2 | 19 55.7 | — |
| | | | | 8 08.7 | — | 0.9 | Indef. | — |
| | | | | 8 10.2 | — | 0.8 | — | — |
| 57 | " 10 | 14 43.7 | — | 14 51 | — | 0.2 | — | — |
| 58 | " 13 | 4 53 | — | 4 59 | — | 0.1 | 00 17 | — |
| 59 | " 14 | 22 24.7 | — | 22 37.5 | — | 0.1 | 00 19 | — |
| 60 | " 14 | 23 33.5 | — | 23 38.2 | — | 0.2 | 00 12.5 | — |
| 61 | " 17 | 17 22 | — | 17 24 | — | 0.1 | 00 08 | — |
| 62 | " 19 | 02 37.2 | 02 48 | 03 15.2 | — | 8.6 | — | Origin Guatemala. |
| | | | | 03 19.2 | 04 21 | 12.0 | — | |
| 63 | " 20 | 21 42 | 21 44 | 21 45 | — | 1.3 | 03 19 | — |
| | | | | 21 47 | 21 47.5 | 1.4 | 00 48 | — |
| 64 | " 21 | 15 10 | — | 15 31 | — | 0.2 | 00 36.5 | — |
| 65 | " 21 | Indef. | — | 18 02 | — | 1.0 | Indef. | — |
| 66 | " 22 | 11 48 | — | 10 50.5 | — | 0.1 | — | — |
| | | | | 10 55.2 | — | 0.1 | 00 14.5 | — |
| 67 | " 25 | 11 44 | — | 12 05 | — | 0.1 | 00 32.7 | — |
| 68 | " 27 | — | — | 4 52.7 | — | 0.4 | — | Sudden tremor. |
| 69 | " 27 | — | — | 5 30 | — | 0.1 | 00 03 | — |
| 70 | " 28 | — | — | 18 15.2 | — | 0.4 | — | Tremor storm in progress. |
| 71 | May 2 | 11 55 | — | 12 51 | — | 0.2 | 01 06 | — |
| | | | | 12 51 | — | 0.1 | — | — |
| 72 | " 5 | 06 00 | — | 4 02.2 | — | 0.4 | 00 12.5 | — |
| 73 | " 7 | 03 43 | — | 3 49.2 | — | 0.1 | 00 10 | — |
| 74 | " 7 | — | — | 6 16 | — | 0.1 | — | — |
| 75 | " 8 | 02 55 | — | 3 12 | — | 0.2 | 00 45 | — |
| 76 | " 8 | 13 27 | — | 13 27.7 | — | 0.6 | 00 04 | — |
| 77 | " 21 | 12 53.5 | — | 12 54 | — | 0.1 | — | — |
| | | | | 12 56.2 | — | 0.1 | 00 08.7 | — |
| 78 | " 25 | 00 09.5 | — | 00 14 | — | 0.1 | 00 07 | — |
| 79 | " 31 | 05 08.7 | — | 05 20 | — | 0.2 | 00 18.5 | — |
| 80 | " 31 | 07 09.7 | — | 7 12.2 | — | 0.5 | — | — |
| | | | | 7 13.2 | — | 0.6 | 00 32.2 | — |
| 81 | June 7 | 20 40.5 | — | 21 32 | — | 0.2 | 1 32.5 | — |
| | | | | 21 48.2 | — | 0.2 | — | — |
| 82 | " 10 | 03 37.2 | — | 3 46 | — | 0.3 | 00 21 | — |
| 83 | " 18 | 00 17.2 | — | 00 28.2 | — | 0.2 | 00 35.7 | — |
| 84 | " 19 | 05 06.7 | 05 09.5 | 05 10 | — | 1.6 | 00 28.5 | — |
| 85 | " 19 | 12 28 | 12 30.7 | 12 31 | — | 1.9 | 00 35.7 | — |
| 86 | " 21 | 06 51.5 | — | 06 59 | — | 0.7 | — | — |
| | | | | 07 02.2 | — | 0.7 | 00 53.5 | — |
| 87 | " 22 | 02 02.2 | — | 02 08.2 | — | 0.6 | 00 18 | — |
| 88 | " 26 | 05 23.5 | — | 05 51.2 | — | 0.6 | 01 07.5 | — |

Complete B.P. = 16.6 secs. excepting for May, when it was 16.7 secs.
 1 mm. boom motion = 0.43.
 L.W. refers to amplitudes exceeding 1 mm., the range being 2 mm.

Register from Cordova, Argentina, Meteorological Office. Director, W. G. DAVIS.

EXPLANATIONS.



| No. | Date | Com- mence- ment | Duration of Preli- minary Tremors | Time of Maximum | Ampli- tude | Total Duration | Period of Pendu- lum | Remarks |
|--------------|---------|------------------------|--|-------------------------------|----------------|-------------------|----------------------------|--|
| 1900. | | | | | | | | |
| 200 | June 26 | H. M. | M. | H. M. | MM. | H. M. | " | T. slight. |
| 201 | July 8 | 7 16.8 | — | — | — | 6 0 | 14.7 | > |
| 202 | " 15 | 15 41.9 | — | — | 2.5 | 0 9.1 | " | > |
| 203 | " 15 | 18 2.0 | — | 19 21.8 | 2.5 | 0 8.1 | " | Thickenings fol- lowed by bending of line to E. |
| 204 | " 17 | 9 46.8 | — | — | — | 4 30 | " | T. and C.I.M. |
| 205 | " 19-20 | 22 23.8 | — | 11 28.6 12 28.0 13 28.0 | 0.5 | 18 23 | " | Apparently a true earthquake move- ment from 11h. to 14h. 45m. be- ginning and end marked by T. and C.I.M. |
| 206 | " 20-21 | 22 48.8 | — | 12 46.8 | 0.5 | 17 30 | " | T. and C.I.M. |
| 207 | " 27 | 6 16.8 | — | — | — | 8 0 | " | T. |
| 208 | " 28 | 4 16.8 | — | — | — | 9 30 | " | T. slight. |
| 209 | " 29 | 6 40.8 | — | 8 9.7 | 8.0 | 7 30 | 15.8 | True earthquake movement, fol- lowed by T. until 14h. Commence- ment and end given approxi- mately; photo- gram indistinct. |
| 210 | " 30-31 | 23 16.8 | — | — | — | 41 0 | " | T. |

Register from Cordova, Argentina, Meteorological Office—continued.

| No. | Date | Com- mence- ment | Duration of Prelim- inary Tremors | Time of Maximum | Ampli- tude | Total Duration | Period of Pen- dulum | Remarks |
|-----|----------|------------------------|--|--|-------------------|-------------------|----------------------------|--|
| 211 | Aug. 6 | H. M. 4 16-8 | H. M. — | H. M. — | MM. 0-5 | H. M. 12 0 | " | T. and C.I.M. |
| 212 | " 8 | 5 16-8 | — | — | — | 10 0 | 15-8 | T. and C.I.M. greatest from 9h. to 12h. |
| 213 | " 13 | 10 16-8 | — | — | — | 3 30 | " | T. slight. From 14h. of 18th until 14h. of the 20th, 30 register. |
| 214 | " 29 | 21 49-8 | — | — | 2-0 | 4 0 | " | > D 2mm. to E. |
| 215 | Sept. 17 | 22 17-8 | 0 2 | 22 19-8 22 37-1 23 13-8 23 23-3 23 33-1 23 53-0 | 0-75 | 2 12-2 | 15-3 | Well defined bead- like movement. |
| 216 | " 19 | 4 49-8 | 0 6 | — | 0-5 | 0 33-0 | " | Slight but well- defined. |
| 217 | " 21 | 1 0-0 | — | — | — | 39 0 | " | T. and C.I.M. |
| 218 | " 30 | 16 13-7 | — | — | 0-5 | 0 8 | 14-7 | > slight. |
| 219 | Oct. 3-4 | 22 16-8 | — | — | — | c 17 30 | 15-3 | T. and C.I.M. great- est from 5h. to 10h. T. and C.I.M. great- est from 9h. to 12h. |
| 220 | " 5 | 4 16-8 | — | — | — | — | " | Photogram indis- tinct from 14h. on the 7th until 16h. on the 8th. |
| 221 | " 9 | 12 48-8 | — | 13 0-5 13 56-9 14 8-6 | 2-0 2-5 3-0 | 3 3-5 | " | Very large, well defined. |
| 222 | " 10 | 4 26-8 | — | 4 31-0 4 33-2 | 0-2 | c 0 30 | " | Slight thickenings, commencement and end given approximately. |
| 223 | " 24 | 9 16-8 | — | — | — | 10 0 | " | T. and C.I.M. ap- parently a true earthquake move- ment, commenced while light was shut off (13h. 19m. to 13h. 33m. on 24th) and continu- ing until about 14h. 40m. |
| 224 | " 24 | 21 16-8 | — | — | — | 41 0 | " | T. and C.I.M. great- est from 9h. to 12h. on the 25th. |
| 225 | " 27 | 7 16-8 | — | — | — | 7 0 | " | T. slight, with curve of line to E. |
| 226 | " 29 | 9 21-8 | 0 7 | 9 33-0 | — | 3 30-6 | " | Very large and well defined. Maxi- mum exceeding the limits of the paper. |
| 227 | " 29 | 21 7-2 | — | — | — | 0 5 | " | Slight irregular movement, doubt- ful. |
| 228 | " 30 | 0 13-2 | — | 0 14-2 | 0-5 | 0 3-6 | " | Slight but well de- fined, bead-like movement. |
| 229 | Nov. 5 | 4 40-8 | — | 4 51-9 4 58-0 | 0-2 | 0 15-5 | " | Slight but well de- fined. |
| 230 | " 5 | 9 8-2 | — | — | — | 0 53-9 | " | Series of slight thickenings. |
| 231 | " 7 | 5 16-8 | — | — | — | 9 0 | " | T. and C.I.M. |
| 232 | " 9 | 16 25-9 | — | 16 28-9 16 42-8 17 41-2 | 0-5 1-0 0-5 | 1 43 | 15-8 | Well defined; first part bead-like, the latter part cigar- shaped. |
| 233 | " 10 | 7 16-8 | — | — | — | c 7 0 | " | T. and C.I.M. |
| 234 | " 11 | 14 32-0 | — | 14 32-0 | 5-0 | 0 10 | " | > D. 6½ mm. to E. |
| 235 | " 11 | 14 45-8 | — | 14 46-8 | 0-5 | 0 7-5 | " | Well defined, bead- like. |

Cordova—continued.

| No. | Date | Com- mence- ment | Duration of Prelim- inary Tremors | Time of Maximum | Ampli- tude | Total Duration | Period of Pen- dulum | Remarks |
|-----|---------|------------------------|--|--|--------------------------|-------------------|----------------------------|--|
| 236 | Nov. 12 | H. M. 1 27-9 | H. M. — | H. M. 2 22-9 2 26-9 2 55-4 | MM. 0-5 0-5 0-6 | H. M. 2 17-3 | 15-8 | Cigar - shaped; slight. |
| 237 | " 18 | 6 33 0 | — | — | 0-5 | 33 0 | " | T. and C.I.M. Very pronounced, and resembling true earthquake move- ment. |
| 238 | " 24 | 6 6 1 | 2 59-5 | 9 7-6 9 18-8 | 0-3 0-6 | 6 38-4 | " | Well defined; a series of bead-like movements, which cease at 10h. 30m., preceded and fol- lowed by tremors. |
| 239 | " 24 | 18 38-8 | — | — | — | — | — | > D. slight. |
| 240 | " 24 | 22 16-8 | — | — | — | 15 0 | " | T. and C.I.M. |
| 241 | " 27 | — | — | 7 39-6 | 0-4 | 0 3 | " | > D. slight. |
| 242 | " 27 | — | — | 8 37-8 | — | — | " | > D. slight. |
| 243 | " 30 | — | — | — | — | — | " | T. and C.I.M. from midnight till morning on the 30th, also 31st; largest from 7h. to 10h. |
| 244 | Dec. 2 | — | — | 20 27-8 21 37-8 23 10-2 23 12-7 | — | — | — | > > D. slight. |
| 245 | " 4 | 23 9-2 | 0 1 | — | 4-0 | 0 13-2 | 16-4 | Beginning of move- ment abrupt and large, followed by four bead-like shocks. |
| 246 | " 7 | — | — | — | — | 22 0 | — | — |
| 247 | " 15 | 11 16-8 | — | — | — | 4 0 | — | T. and C.I.M. |
| 248 | " 16 | 5 46-8 | — | — | — | 8 0 | — | " |
| 249 | " 16 | 20 55-4 | — | — | 0-4 | 0 4 | 15-3 | > slight. |
| 250 | " 18 | 10 16-8 | — | — | — | 4 0 | — | T. and C.I.M., slight. |
| 251 | " 21 | 15 17 3 | — | 15 17-3 15 28-4 | 1-0 1-0 | — | 15-8 | From 14h. on the 18th till 14h. on 18th; register somewhat inter- rupted by erratic movements, sup- posed to be due to insects. |
| 252 | " 25 | — | — | 6 9-7 | 0-2 | — | " | From December 22 till January 5 register somewhat interrupted by movements, sup- posed to be due to insects. |
| 253 | " 23 | 23 16-8 | — | 0 4-4 | — | — | 14-7 | Beginning lost; true earthquake movement. |
| 254 | " 29 | — | — | 5 32-3 | — | — | " | Abrupt thickening, followed by trem- ors. |
| 255 | " 29 | — | — | 10 25-4 | — | — | " | > > |
| 256 | " 29 | — | — | 19 45-3 | 2-0 | 0 8 | " | > > |

Cordova--continued.

| No. | Date | Com- mence- ment | Duration of Pre- liminary Tremors | Time of Maximum | Ampli- tude | Total Duration | Period of Pendu- lum | Remarks |
|--------------|--------|------------------------|--|--------------------|----------------|-------------------|----------------------------|---|
| 1901. | | | | | | | | |
| 257 | Jan. 6 | H. M. 22 29.0 | H. M. — | H. M. 22 37.1 | MM. 0.5 | H. M. 0 19.3 | 14.7 | Well defined, cigar-shaped movements. |
| 258 | " 6 | 1 39.1 | — | 1 37.6 | 0.5 | 0 3 | " | " |
| 259 | " 7 | 0 39.1 | 0 6.5 | 0 53.4 | 3.0 | 2 30.5 | " | Large, well defined. |
| | | | | 1 1.0 | 3.5 | — | | |
| | | | | 1 9.7 | 3.0 | — | | |
| 260 | " 13 | 21 23.9 | — | 21 25.9 | 0.2 | 0 6.5 | 15.3 | Slight thickening of line. |
| 261 | " 14 | 5 16.8 | — | — | — | 11 0 | " | T. and C.I.M. |
| 262 | " 15 | 5 16.8 | — | — | — | 9 0 | " | T. and C.I.M. |
| 263 | " 16 | 9 31.8 | — | 10 57.9 | 0.2 | 3 13 | " | T. with two slight thickenings. |
| 264 | " 18 | 4 16.8 | — | — | — | 9 0 | 15.8 | T. |
| 265 | " 19 | 11 47.8 | — | — | — | — | " | > D. slight. |
| 266 | " 20 | 6 52.9 | — | — | — | — | " | From 14 h. on 22nd till 14 h. on 23rd, register somewhat interrupted by movements, supposed to be due to insects. |
| 267 | " 24 | 9 5.2 | — | — | — | — | 15.3 | > D. 1.6 mm. to E. |
| 268 | " 27 | 0 48.8 | — | 0 49.8 | 0.2 | 0 12 | 15.8 | Slight thickening of line. |
| 269 | " 27 | 4 30.0 | — | — | — | — | " | > D. 0.5 mm. to E. |
| 270 | " 30 | 7 4.0 | — | — | — | 0 23 | " | Slight thickening of line. |
| 271 | Feb. 2 | 4 16.8 | — | — | — | 11 0 | " | T. |
| 272 | " 3 | 6 16.8 | — | — | — | 7 0 | " | T. |
| 273 | " 4 | 2 34.6 | — | 2 34.6 | 0.3 | 0 10 | " | > V |
| | | | | 2 40.7 | 0.5 | — | | |
| 274 | " 4 | 9 16.8 | — | — | — | 4 0 | " | T. slight. |
| 275 | " 7 | 15 6.1 | — | 15 6.1 | 1.0 | 0 8.1 | 15.3 | > V |
| | | | | 15 7.6 | 1.0 | — | | |
| 276 | " 7 | 15 53.4 | — | 15 53.4 | 2.0 | 0 5 | " | > V |
| 277 | " 7 | 17 23.9 | — | — | — | 0 6 | " | > V |
| 278 | " 9 | 2 40.3 | — | 2 40.3 | 0.5 | — | " | Two sudden thickenings of line, duration 4 m. each. |
| | | | | 2 46.9 | 0.5 | — | | |
| 279 | " 10 | 6 16.8 | — | — | — | 11 0 | " | T. and C.I.M. |
| 280 | " 10 | — | — | 21 58.7 | 0.75 | 0 5 | " | > V |
| 281 | " 11 | 4 16.8 | — | 11 16.0 | 0.5 | 19 0 | " | T. and C.I.M. |
| 282 | " 12 | — | — | 2 28.2 | 0.2 | 0 11 | " | Abrupt thickening. |
| 283 | " 12 | 9 16.8 | — | — | — | 5 0 | " | T. slight. |
| 284 | " 15 | 22 46.8 | — | 11 1.5 | 0.5 | 17 0 | 14.7 | T. and C.I.M. very pronounced. |
| 285 | " 17 | 9 16.8 | — | — | — | 4 0 | " | T. slight. |
| | | | | — | — | — | | No register from 22 h. 46 m. on 19th till 14 h. on 18th. |
| 286 | " 22 | 16 20.8 | — | 18 33.0 | 0.5 | 24 0 | 15.8 | T. and C.I.M. very pronounced, and at times resembling true earthquake movement. |
| | | | | 18 53.5 | 0.5 | — | | |
| 287 | " 24 | 5 44.8 | — | — | 0.5 | 0 4 | " | > D. 1 mm. to E. |
| 288 | " 25 | 8 30.2 | — | 10 45.7 | — | 6 0 | " | T. & C.I.M.; slight. |
| 289 | " 25 | 20 19.2 | — | — | 0.2 | 0 3 | " | > V |
| 290 | " 26 | 0 17.8 | — | — | — | — | " | > D. to E.; slight, same at 0 h. 17.8 m., 21 h. 8 m., 3 h. 54 m., and 4 h. 52 m. on the 26th. |
| 291 | " 27 | 0 37.9 | — | — | — | — | 14.7 | > D. to E. slight. |
| 292 | " 27 | 0 56.8 | — | 1 8.0 | 0.2 | 0 25.4 | " | Slight movements lasting from 1 m. to 2 m. each. |
| 293 | " 27 | 1 28.9 | — | — | — | — | " | > D. to E. slight. |

Cordova--continued.

| No. | Date | Com- mence- ment | Duration of Pre- liminary Tremors | Time of Maximum | Ampli- tude | Total Duration | Period of Pendu- lum | Remarks |
|-----|---------|------------------------|--|--------------------|----------------|-------------------|----------------------------|---|
| 294 | Feb. 28 | H. M. 8 46.8 | H. M. — | H. M. — | MM. — | H. M. 6 30 | " | T. |
| 295 | Mar. 1 | 3 16.8 | — | — | — | 4 0 | " | T. |
| 296 | " 1 | 15 30.8 | — | — | — | — | " | > D. to E.; slight. |
| 297 | " 2 | 1 50.3 | — | — | — | — | " | " |
| 298 | " 3 | 5 17.8 | — | 5 20.3 | — | 0 6 | " | Thickening of line. |
| 299 | " 4 | 4 36.1 | 0 1 | 4 38.2 | 0.5 | 0 16.3 | " | Two cigar-shaped movements. |
| | | | | 4 44.3 | 0.2 | — | | |
| 300 | " 4-5 | 23 39.3 | — | 2 11.8 | — | — | " | > D. to E.; slight. |
| 301 | " 5 | 11 46.8 | — | 11 45.3 | — | — | " | Tremors and cigar-shaped thickenings. |
| | | | | 12 31.8 | 0.1 | 3 30 | | |
| 302 | " 6 | 8 16.8 | — | — | — | 5 0 | " | T. slight. |
| 303 | " 7 | 4 17.8 | — | — | — | — | " | > D. to E. slight; |
| | | | | — | — | — | | T. from 10h. to 12h. |
| | | | | — | — | — | | No register from 9h. to 14h. on the 8th. |
| 304 | " 9 | 11 11.8 | — | — | — | — | " | > D. to E. slight. |
| 305 | " 10 | 10 50.4 | — | — | — | — | " | " " " |
| 306 | " 11 | 3 41.7 | — | — | — | — | " | " " " |
| 307 | " 13 | 12 16.8 | — | — | — | 6 0 | " | T. and C.I.M. |
| 308 | " 14 | 2 16.8 | — | — | — | 11 0 | 15.3 | " " " |
| 309 | " 15 | 7 46.8 | 4 54 | 12 58.0 | 1.0 | 6 53.4 | " | Well defined; preceded by tremors; thickening of line commenced at 12h. |
| | | | | 13 4.1 | 1.5 | — | | |
| 310 | " 17 | 2 16.8 | — | — | — | — | " | T. and C.I.M. |
| 311 | " 17 | 19 13.7 | — | — | 0.2 | 0 5 | " | Abrupt thickening. |
| 312 | " 18 | 15 39.2 | — | — | 0.5 | 0 6 | 14.7 | " |
| 313 | " 18 | 17 25.9 | — | 17 32.1 | 0.2 | 0 26.6 | " | T. from 9h. to 13h. |
| 314 | " 19 | 4 16.8 | — | — | — | 11 0 | " | Thickenings lasting from 4 to 8m. |
| 315 | " 20 | 2 16.8 | — | — | 0.5 | 12 0 | " | T. and C.I.M. |
| | | | | — | — | — | | T. and C.I.M., greatest from 10h. to 13h. |
| 316 | " 21 | 6 16.8 | — | — | — | 7 0 | " | T. and C.I.M., greatest from 10h. to 11h. |
| 317 | " 22 | 6 16.8 | — | — | — | 8 0 | " | T. and C.I.M. > at 12h. 30m. |
| 318 | " 22 | 10 5.1 | — | — | 0.75 | 0 6 | " | > V |
| 319 | " 22 | 19 24.9 | — | — | 2.0 | 0 10 | " | > V |
| 320 | " 22 | 21 29.4 | 0 0.5 | 21 29.9 | 2.0 | 0 10 | " | > V |
| 321 | " 23 | 9 16.8 | — | — | — | 5 0 | " | T. |
| | | | | — | — | — | | Register lost from 22h. 46m. on 23rd, till 14h. 44m. on the 24th. |
| 322 | " 24 | 16 23.9 | — | — | 0.5 | 0 5 | " | > V |
| 323 | " 25 | 6 16.8 | — | — | — | 0 7 | " | T. |
| 324 | " 31 | 4 16.8 | — | — | — | 10 30 | " | T. slight. |
| 325 | April 2 | 22 39.7 | — | — | 0.5 | 0 5 | " | > V; T. from 8h. to 14h. |
| 326 | " 3 | 0 16.8 | — | — | — | 0 8 | " | T. |
| 327 | " 3 | 14 58.0 | 0 3.0 | 16 2.0 | 0.5 | 0 36.6 | " | Slight, but well-defined and bead-like movements. |
| | | | | 16 3.6 | — | — | | |
| | | | | 16 5.1 | — | — | | |
| | | | | 22 18.3 | 0.5 | 0 6 | " | > V |
| 328 | " 4 | — | — | — | — | 3 0 | " | T. |
| 329 | " 5 | 13 28.8 | — | — | — | — | " | > V |
| 330 | " 6-6 | 23 55.4 | — | 0 32.0 | 0.5 | 3 0 | " | Well defined, commencement consists of slight thickening of line. |
| | | | | 0 51.4 | — | — | | |
| | | | | 0 52.4 | — | — | | |
| | | | | 1 32.6 | — | — | | |
| | | | | 1 46.3 | — | — | | |
| 331 | " 8 | 4 0.0 | — | — | — | 0 3 | " | T. and C.I.M. |
| 332 | " 8 | 15 19.8 | — | — | — | — | 15.8 | > D. 0.5 mm. to E. |
| 333 | " 8 | 19 4.6 | — | — | — | — | " | > D. 1.0 mm., followed by slight curve to W. |

Cordova—continued.

| No. | Date | Com- mence- ment | Duration of Pre- liminary Tremors | Time of Maximum | Ampli- tude | Total Duration | Period of Pendu- lum | Remarks |
|-----|---------|------------------------|--|--------------------|----------------|-------------------|----------------------------|--|
| | | H. M. | H. M. | H. M. | MM. | H. M. | " | |
| 334 | April 8 | 20 15 | — | — | — | — | 15.8 | >D. to E. |
| 335 | " 10 | 1 8.9 | — | — | — | — | " | " " |
| 336 | " 11 | 21 48.8 | — | — | — | — | 14.7 | " " |
| 337 | " 12 | 18 5.6 | — | 18 8.1 | 0.1 | 0 13 | " | Minute thickening of line. |
| 338 | " 12 | 22 16.3 | — | — | — | — | " | Slight curve to E. |
| 339 | " 13 | 3 13.2 | — | — | — | — | " | " " " W. |
| 340 | " 13 | 6 14.0 | — | — | — | 8 0 | " | " " " W. |
| 341 | " 13-14 | 23 43.2 | — | 4 4.3 | 0.5 | 17 0 | " | T. and C.I.M.; at times resembling true earthquake movements. |
| 342 | " 15 | 4 14.0 | — | — | — | 10 0 | " | T. and C.I.M. |
| 343 | " 16 | 8 15.0 | — | — | — | 6 30 | " | T. slight. |
| 344 | " 18 | 9 14.0 | — | — | — | — | " | " " |
| 345 | " 18-19 | 22 45.0 | — | 6 46.3 | 0.5 | 18 30 | " | T. and C.I.M.; at times resembling true earthquake movements. |
| | | | | 7 17.8 | 0.5 | | | |
| | | | | 10 15.3 | 1.0 | | | |
| 346 | " 20 | 0 0.0 | — | — | — | 14 0 | " | T. slight. |
| 347 | " 21 | 6 14.0 | — | — | — | 7 39 | " | " " |
| 348 | " 22 | 3 15.0 | — | — | — | 1 30 | " | T. and C.I.M.; strongest from 10h. to 12h. |
| 349 | " 23 | 7 14.0 | — | — | — | 7 0 | " | T. slight. |
| 350 | " 24 | 2 34.8 | 0 1 | 2 38.1 | 0.5 | 0 9.1 | " | Carrot-shaped. |
| 351 | " 26 | 9 13.0 | — | — | — | 3 30 | " | T. slight. |
| 352 | " 26 | 4 14.0 | — | — | — | 10 0 | " | T. and C.I.M.; strongest from 11h. to 13h. |
| 353 | " 27 | 7 14.0 | — | — | — | 7 0 | " | T. slight. |
| 354 | " 28 | 6 14.0 | — | — | — | 6 0 | " | T. slight. |
| 355 | " 29 | 10 13.0 | — | — | — | 3 0 | " | T. slight. |
| 356 | " 29 | 16 51.0 | — | 16 53.0 | — | 0 11.6 | " | Two slight thicken- ings of line. |
| | | | | 16 54.5 | — | | | |
| 357 | " 30 | 9 14.0 | — | — | — | 4 30 | " | T. very slight. |
| 358 | May 7 | 10 14.0 | — | — | — | 4 0 | " | T. slight. |
| 359 | " 8 | 4 0.0 | — | — | — | 13 0 | " | T. and C.I.M. > to W. at 6h. 8m., slight. Register lost from 9h. 46m. to 14h. on the 9th. |
| 360 | " 9 | 22 0.0 | — | — | — | 16 0 | " | T. and C.I.M. |
| 361 | " 11 | 4 14.0 | — | — | — | 10 0 | " | " " |
| 362 | " 12 | 4 14.0 | — | — | — | 9 30 | " | T. slight. |
| 363 | " 12 | 21 46.8 | — | 21 46.8 | 0.2 | — | " | Slight thickenings. |
| 364 | " 15 | — | — | 23 43.8 | 0.1 | 0 2.0 | " | " " |
| 365 | " 17 | — | — | 15 37.4 | 1.0 | 0 7.0 | " | >D. |
| 366 | " 17 | 16 8.9 | — | 16 9.9 | — | 0 5.0 | " | >D. slight. |
| 367 | " 17 | 16 17.0 | — | 16 17.4 | 1.0 | 0 7.0 | " | >D. |
| 368 | " 17 | — | — | 18 13.9 | 0.4 | 0 4.0 | " | Carrot-shaped. |
| 369 | " 17 | — | — | 23 27.6 | 0.5 | 0 3.0 | " | > >D. first and second to E. third to W. |
| | | | | 23 50.9 | 0.3 | 0 4.0 | | |
| | | | | 23 56.0 | 1.0 | 0 6.0 | | |
| 370 | " 18 | 10 12.0 | — | — | — | 2 0 | " | T. very slight. |
| 371 | " 19 | 10 13.0 | — | — | — | 3 0 | " | " " |
| 372 | " 21 | 1 49.3 | — | 2 8.2 | 0.5 | 0 35.5 | " | " " |
| | | | | 2 17.4 | 2.0 | | | |
| | | | | 3 13.7 | 0.2 | 0 5 | | |
| 373 | " 21 | — | — | — | — | 8 0 | " | >D. slight. |
| 374 | " 22 | 4 14.0 | — | — | — | 8 0 | " | " " |
| 375 | " 23 | 1 16.0 | — | — | — | 15 0 | " | " " |
| 376 | " 24 | — | — | 18 15.9 | 0.1 | 0 3 | " | >D., 0.5mm. to E. |
| 377 | " 25 | 0 45.1 | 0 33 | 1 21.2 | 1.0 | 2 34.6 | " | Well defined, first maximum pre- ceded by many bead-like move- ments. |
| | | | | 1 25.8 | 1.0 | | | |
| | | | | 1 36.1 | 1.25 | | | |
| 378 | " 26 | 7 43.0 | — | 7 50.1 | 7.0 | 1 18.3 | " | Large well-defined movement. |
| | | | | 7 59.3 | 1.0 | | | |
| 379 | " 27 | 16 53.0 | — | 16 58.4 | 0.75 | 0 10.6 | " | Well-defined cigar- shaped movement. |

Cordova—continued.

| No. | Date | Com- mence- ment | Duration of Pre- liminary Tremors | Time of Maximum | Ampli- tude | Total Duration | Period of Pendu- lum | Remarks |
|-----|---------|------------------------|--|--------------------|----------------|-------------------|----------------------------|---|
| | | H. M. | H. M. | H. M. | MM. | H. M. | " | |
| 380 | May 27 | 21 26.7 | — | 21 31.8 | 0.3 | 0 7 | 14.7 | Two well-defined cigar-shaped move- ments. |
| 381 | " 28-29 | 22 0.0 | — | — | — | 13 0 | " | T. and C.I.M. |
| 382 | " 29-30 | 22 0.0 | — | 1 38.1 | 0.5 | 18 0 | " | T. slight and C.I.M.; at times resembling true earthquake movements. |
| 383 | " 30-31 | 23 14.0 | — | — | — | 15 0 | " | T. and C.I.M. |
| 384 | " 31 | 23 40.8 | — | — | — | — | " | >D. slight. |
| 385 | June 1 | 8 14.0 | — | — | — | 6 0 | " | T. and C.I.M. |
| 386 | " 2 | 1 15.3 | — | 1 26.8 | 0.5 | 0 55.9 | " | Well-defined bead- like movements. |
| 387 | " 2 | 7 13.0 | — | 1 42.1 | 0.8 | — | " | T. and C.I.M. |
| 388 | " 5 | 7 14.0 | — | 11 27.8 | 0.2 | 7 0 | " | " " |
| 389 | " 5 | 20 36.8 | — | — | — | 4 0 | " | Bending of line to W. |
| 390 | " 7 | — | — | 17 1.5 | 0.2 | 0 4 | " | >D. |
| 391 | " 7 | 19 2.5 | — | 19 6.6 | 0.5 | — | " | Well-defined, five bead-like move- ments. |
| 392 | " 9 | 6 14.0 | — | — | — | 8 0 | " | T. slight. |
| 393 | " 11 | 6 14.0 | — | — | — | 8 0 | " | " " |
| 394 | " 12 | 4 16.0 | — | — | — | 12 0 | " | " " |
| 395 | " 13 | 9 27.9 | — | 9 28.9 | 0.2 | 0 2 | " | Very slight thicken- ing, duration 2m. T. and C.I.M. |
| 396 | " 14 | 2 14.0 | — | — | — | 12 0 | " | " " |
| 397 | " 14 | 23 46.8 | — | — | — | — | " | " " |
| 398 | " 15 | 4 14.0 | — | — | — | 10 0 | " | " " |
| 399 | " 16 | 4 14.0 | — | — | — | 1 0 | " | " " |
| 400 | " 17 | 2 14.0 | — | — | — | 12 0 | " | " " |
| 401 | " 18 | 6 14.0 | — | — | — | 8 0 | " | T. slight. |
| 402 | " 23 | 9 14.0 | — | — | — | 5 0 | 15.3 | T. slight. |
| 403 | " 24 | — | — | 7 42.1 | 0.6 | 13 0 | " | T. and C.I.M.; > at 6h. 31m. on 24th, a true earthquake movement between 7h. and 8h. begin- ning and end marked by C.I.M. |
| 404 | " 26 | 5 14.0 | — | — | — | — | " | T. slight. |
| 405 | " 28 | — | — | 16 12.1 | — | — | " | Two slight thicken- ings of line. |
| 406 | July 1 | — | — | 19 52.3 | — | — | 14.7 | >D. to W., slight. |
| 407 | " 2 | 7 17.0 | — | 16 27.1 | — | — | " | T. and C.I.M. slight. |
| 408 | " 2-3 | 21 14.0 | — | — | — | — | " | T. and C.I.M.; strong from 6h. to 13h. |
| 409 | " 4 | c.4 0.0 | — | 10 9.4 | 8.0 | 10 0 | " | T.; >D., large at time indicated. |
| 410 | " 4 | 15 8.0 | — | — | — | — | " | Intermittent thicken- ing of line. |
| 411 | " 5 | 9 13.0 | — | — | — | — | " | T. slight. |
| 412 | " 6 | 2 15.0 | — | — | — | — | " | " " |
| 413 | " 7 | 0 15.0 | — | — | — | — | " | T. and C.I.M., most pronounced from 8h. to 13h. |
| 414 | " 8 | 5 14.0 | — | — | — | — | " | T. slight. |
| 415 | " 12 | 6 14.0 | — | — | — | — | " | " " |
| 416 | " 18 | 22 38.8 | 0 15.5 | 20 55.4 | 0.5 | 0 44 | " | Small, but appa- rently a true earth- quake movement. |
| 417 | " 18 | 6 14.0 | — | — | — | — | " | T. slight. |
| 418 | " 23 | — | — | 23 43.3 | 0.5 | 0 2 | " | Slight thickening of line. |
| 419 | " 26 | 6 14.0 | — | — | — | — | " | T. |
| 420 | " 27 | 7 14.0 | — | — | — | — | " | T. and C.I.M. |
| 421 | " 29 | 1 38.0 | — | 1 47.6 | 0.6 | 0 46.8 | " | Slight, but well de- fined. Register lost from 6h. 30m. to 8h. on 29th. |
| 422 | " 30 | c.6 0.0 | — | 13 22.4 | 0.5 | 10 0 | " | T.; >D. at time indicated. |
| 423 | " 30 | — | — | 15 45.4 | — | — | " | >D. |
| 424 | Aug. 1 | — | — | 12 38.9 | 0.5 | 0 8 | 15.3 | >D. slight. |

Cordova—continued.

| No. | Date | Com- mence- ment | Duration of Pre- liminary Tremors | Time of Maximum | Ampli- tude | Total Duration | Period of Pen- dulum | Remarks |
|-----|---------|------------------------|--|--------------------|----------------|-------------------|----------------------------|--|
| | | H. M. | H. M. | H. M. | MM. | H. M. | " | |
| 426 | Aug. 2 | 1 2:3 | — | 1 7:3 | 0:5 | 0 55 | 15:3 | First > second and third thickenings of line. |
| 426 | " 2 | 10 12:4 | 0 4 | 10 32:1 | 0:2 | 0 17 | " | >D. 3mm. to E. |
| 427 | " 2 | — | — | 10 47:0 | 9:0 | 0 43 | " | Erratic movements, supposed to be due to insects. |
| 428 | " 3 | 1 4:0 | — | — | 8:0 | — | " | Several slight thickenings of line. |
| 429 | " 3 | 16 0:0 | — | — | — | 4 30 | 14:7 | Line curves to W.; >D. at 13h. 54m. |
| 430 | " 4 | 0 45:0 | — | — | — | 15 0 | " | T. and C.I.M. very pronounced from 12h. to 13h. |
| 431 | " 5 | 0 0:0 | — | — | — | 14 0 | " | T. |
| 432 | " 6 | 19 51:8 | — | — | — | 0 20 | " | Three slight thickenings from 10h. 35m. to 10h. 55m. |
| 433 | " 7 | 0 0:0 | — | — | — | 20 30 | " | T. and C.I.M.; largest from 9h. to 13h. |
| 434 | " 8 | 5 0:0 | — | — | — | 9 0 | " | T. slight. |
| 435 | " 9 | 9 43:3 | 0 4:5 | 10 3:2 | 0:5 | 2 18:3 | " | Well defined; more than 50 bead-like movements. |
| 436 | " 9 | 13 16:8 | 0 6 | 10 53:0 | 0:8 | 3 44:2 | " | Large and well defined; 107 movements counted; no register from 14h. 15m. to 14h. 25m. |
| 437 | " 9 | 13 57:1 | 0 8 | 19 30:5 | 0:5 | 2 39:6 | " | Well defined; a series of over 100 movements. |
| 438 | " 10 | 7 0:0 | — | — | — | 7 30 | " | T. and C.I.M. |
| 439 | " 11 | 6 46:0 | — | — | — | 7 30 | " | T. slight. |
| 440 | " 11 | 15 33:0 | — | — | — | 0 16 | " | Four slight thickenings of line. |
| 441 | " 12 | — | — | 21 58:3 | — | 0 3 | " | >D. slight, followed by T. and C.I.M. |
| 442 | " 16 | — | — | 9 2:1 | — | — | " | T. slight. |
| 443 | " 17 | 9 45:0 | — | — | — | 4 30 | " | " |
| 444 | " 19 | 10 0:0 | — | — | — | 3 30 | 15:3 | " |
| 445 | " 20 | 9 0:0 | — | — | — | 4 0 | " | Register lost from 7h. 16m. to 13h. 16m. |
| 446 | " 24 | 7 0:0 | — | — | — | 6 0 | 14:7 | T. slight. |
| 447 | " 25 | — | — | 12 44:2 | — | — | " | > |
| 448 | " 28 | — | — | 1 23:8 | — | — | " | Two slight thickenings of line. |
| 449 | " 28 | 6 16:8 | — | — | — | 7 0 | " | T. |
| 450 | " 29 | 7 47:8 | 0 0:5 | 7 49:4 | 1:7 | 0 12:7 | " | Apparently a true earthquake movement, with abrupt commencement. |
| 451 | " 30 | 9 16:8 | — | — | — | — | " | T. very slight. |
| 452 | Sept. 3 | — | — | 0 15:8 | — | 3 0 | " | > |
| 453 | " 3 | — | — | 2 12:0 | — | — | " | >D. Imm. to W. |
| 454 | " 3 | — | — | 8 48:0 | — | — | " | T. very slight. |
| 455 | " 4 | 10 0:0 | — | — | — | 3 0 | " | Register lost from 15h. 16m. on 4th, till 14h. 18m. on 5th. |
| 456 | " 6 | 8 16:8 | — | — | — | 6 0 | " | T. and erratic movements; >D. at 11h. 16m. |
| 457 | " 7 | 5 0:0 | — | — | — | 9 0 | " | T. slight. |

Cordova—continued.

| No. | Date | Com- mence- ment. | Duration of Pre- liminary Tremors | Time of Maximum | Ampli- tude | Total Duration | Period of Pen- dulum | Remarks |
|-----|---------|-------------------------|--|--------------------|----------------|-------------------|----------------------------|--|
| | | H. M. | H. M. | H. M. | MM. | H. M. | " | |
| 458 | Sept. 8 | 18 0:0 | — | 18 32:8 | 0:2 | 2 22:2 | 14:7 | Well defined; a long series of slight shocks. |
| 459 | " 8 | 22 20:0 | 0 1 | 18 56:6 | 0:3 | 0 6 | " | Carrot-shaped. |
| 460 | " 8 | — | — | 18 36:1 | 0:7 | 0 5 | " | >D. Imm. to E. |
| 461 | " 8 | — | — | 21 56:7 | 3:0 | 0 10:5 | " | > |
| 462 | " 12 | 4 0:0 | — | 22 0:8 | 1:0 | — | " | T. slight. |
| 463 | " 13 | 6 0:0 | — | — | — | 8 0 | " | " |
| 464 | " 15 | — | — | 4 7:8 | — | — | " | >D. to E., slight. |
| 465 | " 15 | 6 0:0 | — | — | — | 8 0 | " | T. slight. |
| 466 | " 15 | 4 0:0 | — | — | — | 10 0 | " | " |
| 467 | " 16 | — | — | 15 55:3 | 0:6 | 0 6 | " | > |
| 468 | " 17 | — | — | 21 8:4 | 0:3 | 0 5 | " | Mere thickening of line except at time of maximum. |
| 469 | " 21 | 7 0:0 | — | — | — | 7 0 | " | T. slight. |
| 470 | " 22 | 7 0:0 | — | — | — | 6 0 | " | " |
| 471 | " 24 | 8 15:6 | — | 8 15:6 | 0:5 | 0 56:9 | " | Well defined. |
| 472 | " 26 | 4 0:0 | — | 8 18:6 | 0:5 | — | " | " |
| 473 | " 28 | 16 4:0 | — | 16 5:6 | 0:2 | 0 5 | " | T. and C.I.M.; largest from 10h. to 12h. |
| 474 | " 28 | — | — | 20 42:1 | — | — | " | Very slight thickening. |
| 475 | " 30 | 3 0:0 | — | — | — | 25 0 | " | >D. Imm. to E. |
| 476 | Oct. 4 | 9 21:4 | — | — | — | 0 4 | " | T. and C.I.M. |
| 477 | " 4 | — | — | 20 32:2 | 2:0 | 0 6 | " | Slight thickening. |
| 478 | " 5 | 0 46:8 | — | 20 33:7 | 0:8 | — | " | Small, but well defined; beginning somewhat abrupt. |
| 479 | " 6 | 3 11:8 | — | — | — | 13 30 | " | T. and C.I.M.; >D. to W. at 4h. 23m. |
| 480 | " 6 | 6 0:0 | — | — | — | 8 0 | " | >D. to W., slight. |
| 481 | " 7 | 4 1:5 | — | — | — | — | " | T. slight. |
| 482 | " 8 | 2 23:3 | — | 2 44:8 | 2:0 | 1 55:9 | " | >D. to W., slight. |
| 483 | " 9 | 3 16:8 | — | — | — | — | " | Well defined. |
| 484 | " 9 | 5 41:2 | — | — | — | — | " | >D. to W., slight. |
| 485 | " 9 | 9 0:0 | — | — | — | 4 0 | " | >>D. to W. |
| 486 | " 10 | 4 0:0 | — | — | — | 9 0 | " | T. and C.I.M. slight. |
| 487 | " 11 | 3 14:7 | — | 3 18:7 | 0:2 | 1 7:1 | " | Slight but apparently true earthquake movement. |
| 488 | " 11 | 7 0:0 | — | — | — | 6 0 | " | T. and C.I.M. |
| 489 | " 12 | 4 0:0 | — | — | — | 9 0 | " | T. and C.I.M. slight. |
| 490 | " 13 | 22 7:8 | 0 1 | 22 8:6 | 0:8 | 0 9 | " | > |
| 491 | " 14 | 20 27:2 | — | — | — | — | " | >D. to E. |
| 492 | " 17 | 1 40:2 | — | 1 41:7 | 0:5 | 0 16 | " | Well defined; a series of bead-like movements. |
| 493 | " 18 | — | — | 10 43:2 | — | — | " | >D. to W., slight. |
| 494 | " 19 | 9 5:6 | — | 9 7:6 | — | 0 5 | " | Slight thickening. |
| 495 | " 19 | 10 5:6 | — | 10 16:8 | 0:5 | 1 19:2 | " | Small, but well defined. |
| 496 | " 19 | — | — | 12 4:6 | — | — | " | >D. Imm. to E. |
| 497 | " 22 | 1 53:8 | — | — | — | — | " | >D. to W. |
| 498 | " 23 | 6 0:0 | — | — | — | 8 0 | " | " |
| 499 | " 23 | — | — | 21 15:8 | — | — | " | >D. to W. |
| 500 | " 23 | — | — | 4 28:0 | — | — | " | >D. to E. |
| 501 | " 28 | — | — | 16 21:4 | — | — | " | " |
| 502 | Nov. 6 | — | — | — | — | — | " | Apparently a shock while lamps were being cleaned (14h. 52m. to 15h. 4m.) movement ceased at 15h. 44m. |
| 503 | " 8 | 4 0:0 | — | — | — | 10 0 | " | T. > at 4h. 42m. slight. |
| 504 | " 10 | 4 0:0 | — | — | — | 13 0 | " | T. slight. |
| 505 | " 11 | 6 46:8 | — | — | — | 10 30 | " | " |
| 506 | " 13 | 4 0:0 | — | — | — | 10 30 | " | " |

Cordova—continued.

| No. | Date | Com- mence- ment | Duration of Pre- liminary Tremors | Time of Maximum | Ampli- tude | Total Duration | Period of Pen- dulum | Remarks |
|-----|---------|------------------------|--|--------------------|----------------|-------------------|----------------------------|--|
| | | H. M. | H. M. | H. M. | MM. | H. M. | " | |
| 507 | Nov. 15 | 4 0-0 | — | — | — | 9 0 | 14.7 | T. slight. |
| 508 | " 15 | 20 32-6 | — | 20 58-4 | 0-5 | 1 50-3 | " | Slight, but well de- fined; beginning more thickening of line. |
| 509 | " 18 | — | — | 7 58-3 | — | — | " | V. D. to W. slight. |
| 510 | " 19 | 4 0-0 | — | — | — | 10 30 | " | T and C.L.M. slight. |
| 511 | " 20 | 2 0-0 | — | — | — | 11 0 | " | T and C.L.M. |
| 512 | " 21 | 5 0-0 | — | — | — | 8 0 | " | T. slight. |
| 513 | " 24 | 4 0-0 | — | — | — | 9 0 | " | " |
| 514 | " 30 | 4 0-0 | — | — | — | 33 30 | " | " |
| 515 | Dec. 1 | 20 20-8 | — | — | — | — | 15.3 | T. and C.L.M. V. D. to E. slight. Register lost from 8h. 16m. to 11h. 16m. on the 4th, and from 14h. 26m. to 18h. on the 7th. |
| 516 | " 10 | — | — | 17 17-8 | — | — | 14.7 | V. D. to E. slight. |
| 517 | " 11 | — | — | 12 38-1 | — | — | " | V. D. to E. slight. |
| 518 | " 11 | — | — | 13 58-8 | — | — | " | V. D. to E. slight. |
| 519 | " 12 | 4 0-0 | — | 17 3-2 | — | — | " | V. D. to E. slight. |
| 520 | " 13 | — | — | 15 35-1 | — | 10 0 | " | T. very slight. |
| 521 | " 15 | — | — | 10 48-3 | — | 0 7 | " | V. D. to E. slight. |
| 522 | " 18 | — | — | 15 51-3 | 0-5 | — | " | Thickening of line. |
| 523 | " 19 | — | — | 19 26-3 | 0-2 | 0 3 | " | V. D. to E. slight. |
| 524 | " 20 | 4 0-0 | — | — | — | 10 0 | 16.9 | T. slight. |
| 525 | " 21 | 4 1-0 | — | — | — | 9 0 | " | " |
| 526 | " 23 | — | — | 15 45-3 | — | — | " | V. D. to W. |
| | | | | 17 29-3 | — | — | " | " |
| | | | | 21 21-8 | — | — | " | " |
| | | | | 21 42-7 | — | — | " | " |
| 527 | " 24 | 4 0-0 | — | — | — | 12 0 | " | T. slight. |
| 528 | " 24 | — | — | 17 31-8 | — | — | " | V. D. to E. very slight. |
| 529 | " 25 | 5 0-0 | — | — | — | 3 0 | " | T. very slight. |
| 530 | " 26 | — | — | 21 45-8 | 0-1 | 0 6 | 16.4 | Slight thickening of line. |
| 531 | " 28 | 6 0-0 | — | — | — | 0 6 | " | T. very slight. |
| 532 | " 30 | — | — | 16 0-4 | 0-1 | 0 3 | " | Slight thickening of line doubtful. |
| 533 | " 31 | 9 22-8 | — | 9 45-8 | 0-5 | 2 10 | " | Well defined, but small; followed by tremors until 11h. 15m. |

Register from Oahu College, Honolulu. Observer, Mr. L. MILLER.

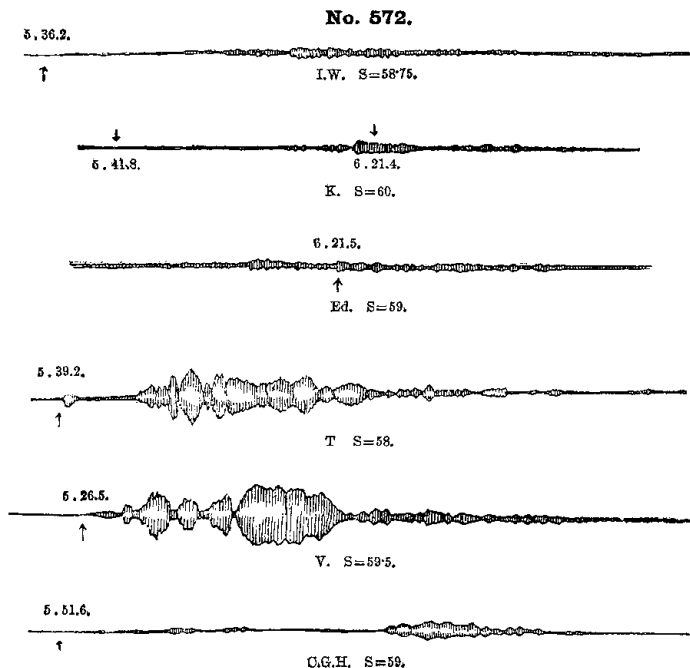
| Date | P.T. Commence | Max. | Max. Amplitude | Dura- tion. | Remarks. |
|--------------|------------------|---------------|-------------------|----------------|---------------|
| 1901. | | | | | |
| Dec. 30 | H. M. 22 40-3 | H. M. 22 48-5 | MM. 3-5 | H. M. 3 30 | Times approx. |
| 31 | — | 6 0 | 0-75 | — | " " |
| 31 | — | 9 16-8 | 12-0 | — | " " |
| 1902. | | | | | |
| Jan. 24 | 23 34-3 | 23 56-5 | 5 | 2 35 | " " |

III. Illustrations of Seismograms.

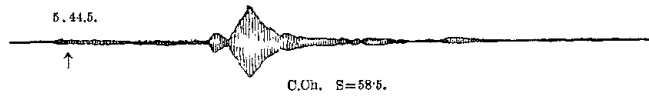
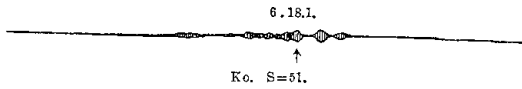
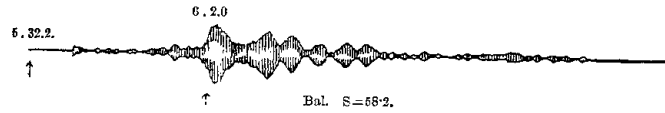
The following illustrations of seismograms are only to be regarded as sketches of the original photograms. They show the characteristics of wave groups but not the details of the original records. The numbers are those corresponding to entries in the Slide registers. The arrow with its time mark gives the time for a particular phase of movement, which is usually that of the commencement. The numbers following the letter S give the time scale in millimetres per hour. Thus S=60 means that 60 millimetres equal an hour.

The locality at which a seismogram was obtained is indicated by the following initial or initials:—

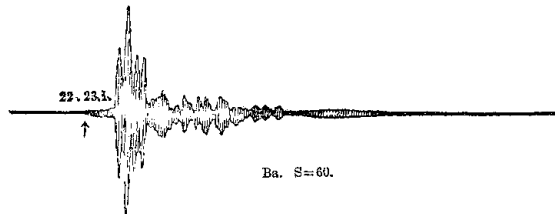
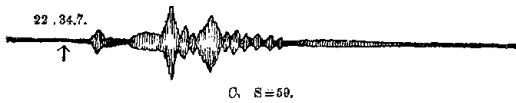
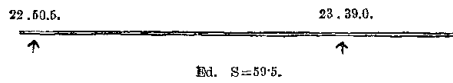
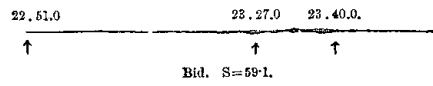
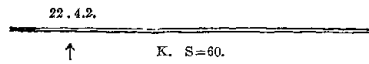
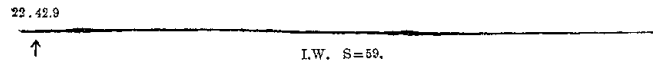
| | | | |
|-------------------|--------|--------------|-------|
| Isle of Wight | I.W. | Calcutta | C. |
| Kew | K. | Mauritius | M. |
| Bidston | Bid. | Philadelphia | Ph. |
| Edinburgh | Ed. | Baltimore | Bal. |
| Toronto | T. | Kodaikanal | Ko. |
| Victoria, B.C. | V. | Perth, W.A. | P. |
| San Fernando | S.F. | Christchurch | C.Ch. |
| Cape of Good Hope | C.G.H. | Wellington | Well. |
| Bombay | B. | Batavia | Ba. |



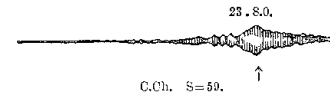
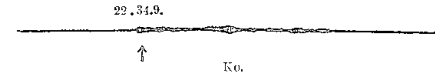
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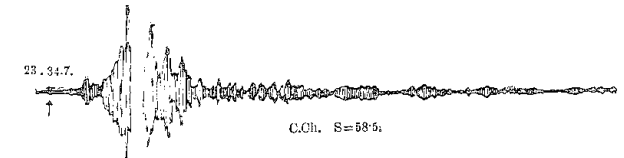
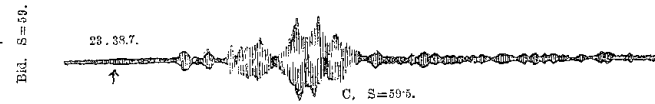
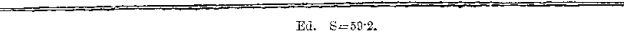
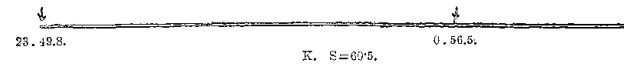
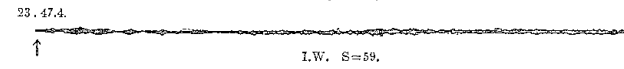
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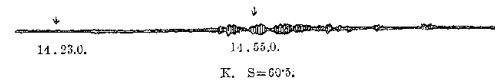
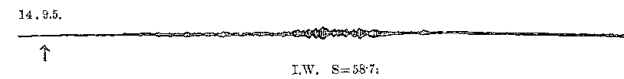
No. 574--continued.



No. 581.



No. 584.



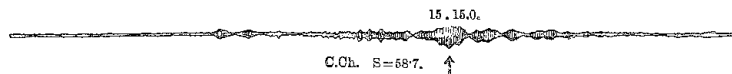
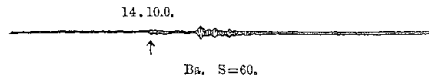
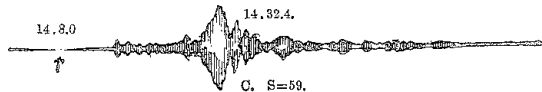
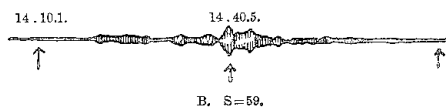
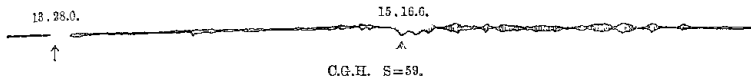
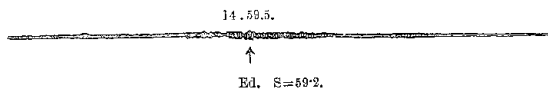
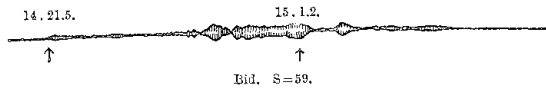
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0.55.3.

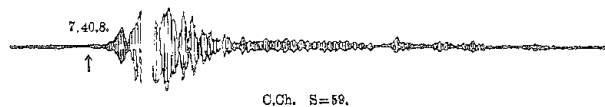
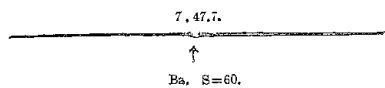
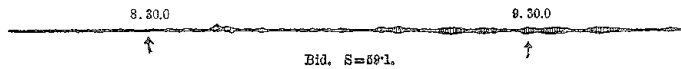
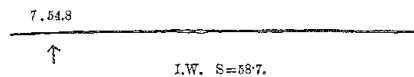
Ed. S=59.

23.49.2.

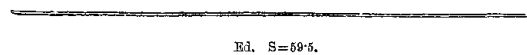
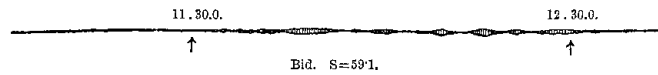
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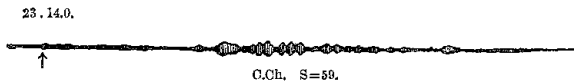
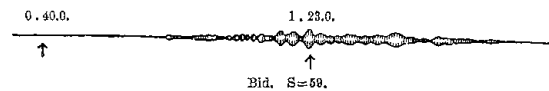
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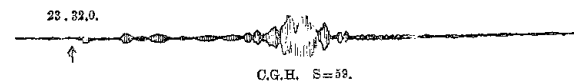
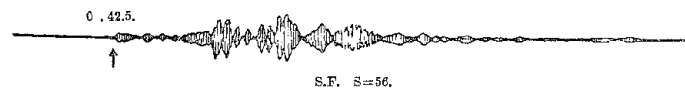
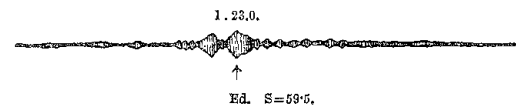
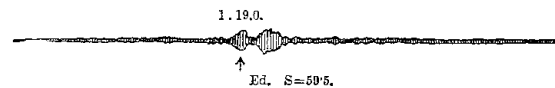
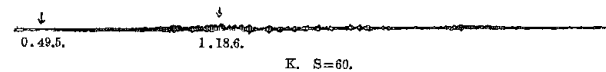
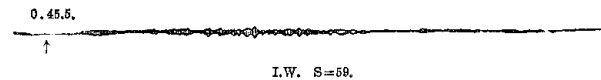
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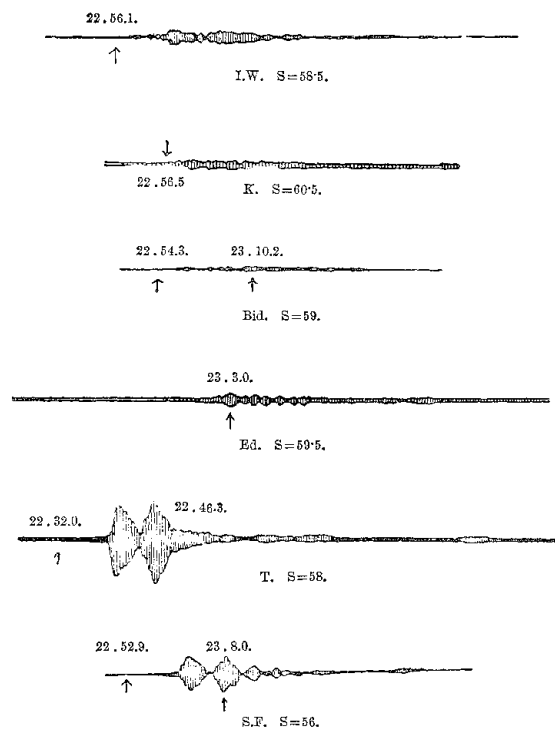
No. 589.



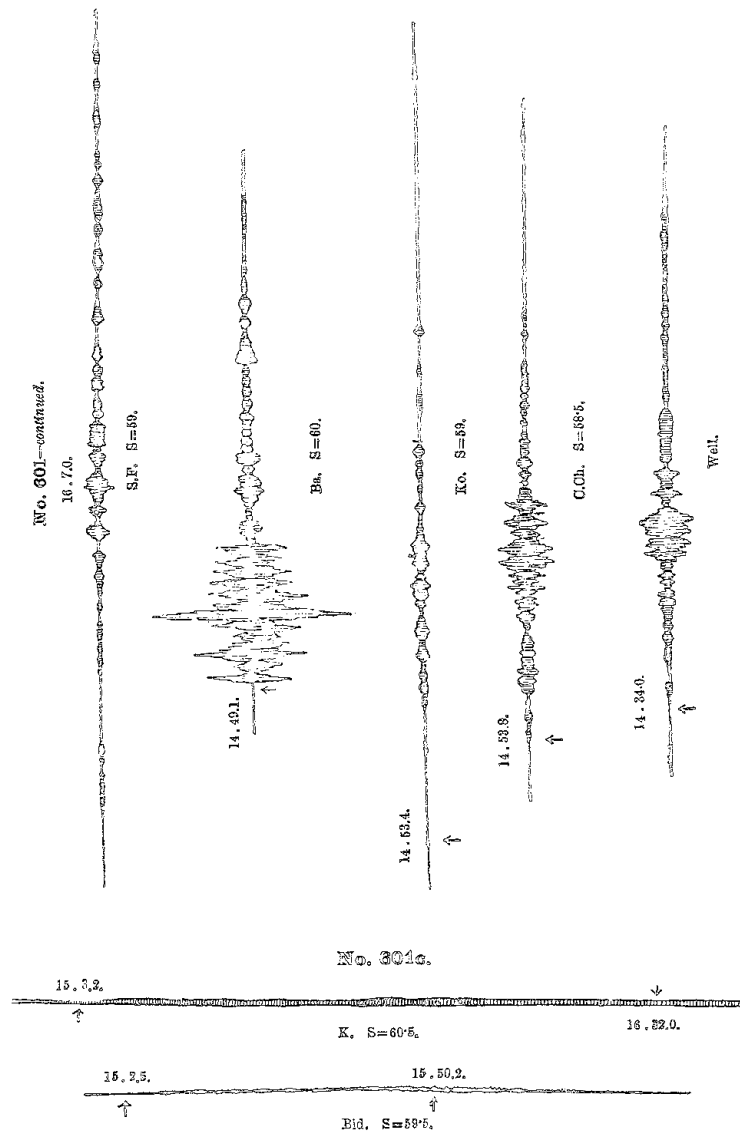
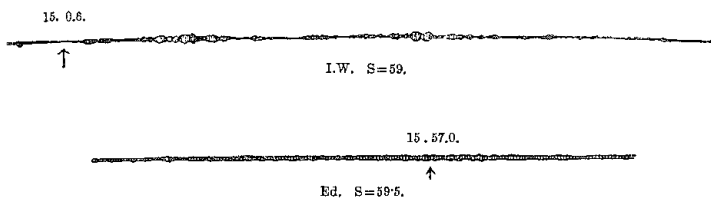
No. 589a.



No. 599.



No. 601.



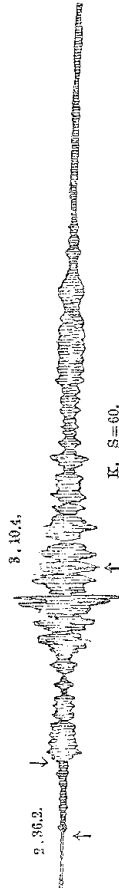
No. 606.

S. 19.2.



2. 35.4.

I.W. S=59.



S. 10.4.

2. 36.2.

K. S=60.



S. 15.1.

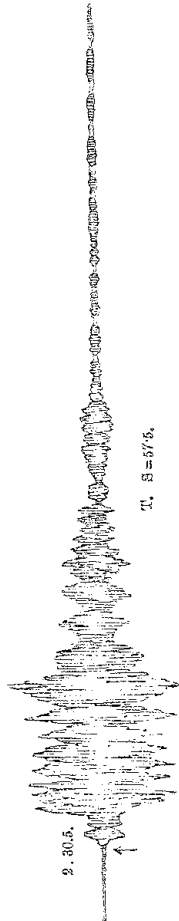
2. 35.0.

Brd. S=59.



2. 36.0.

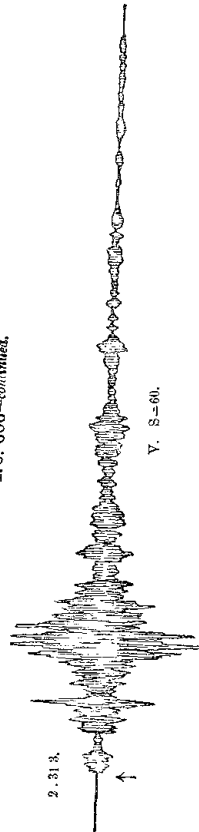
Ed. S=59.2.



2. 30.5.

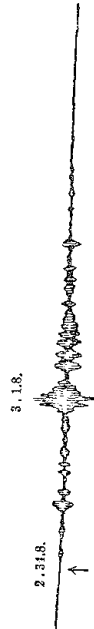
T. S=57.5.

No. 606—continued.



2. 31.3.

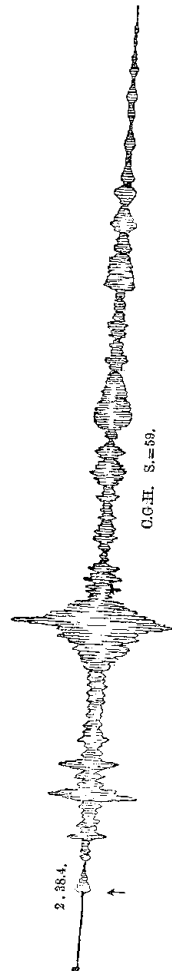
Y. S=60.



S. 1.8.

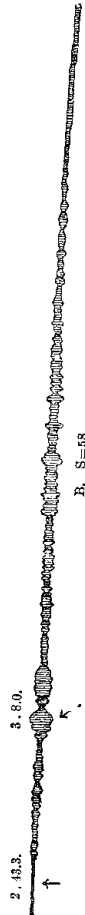
2. 31.8.

S.F. S=60.



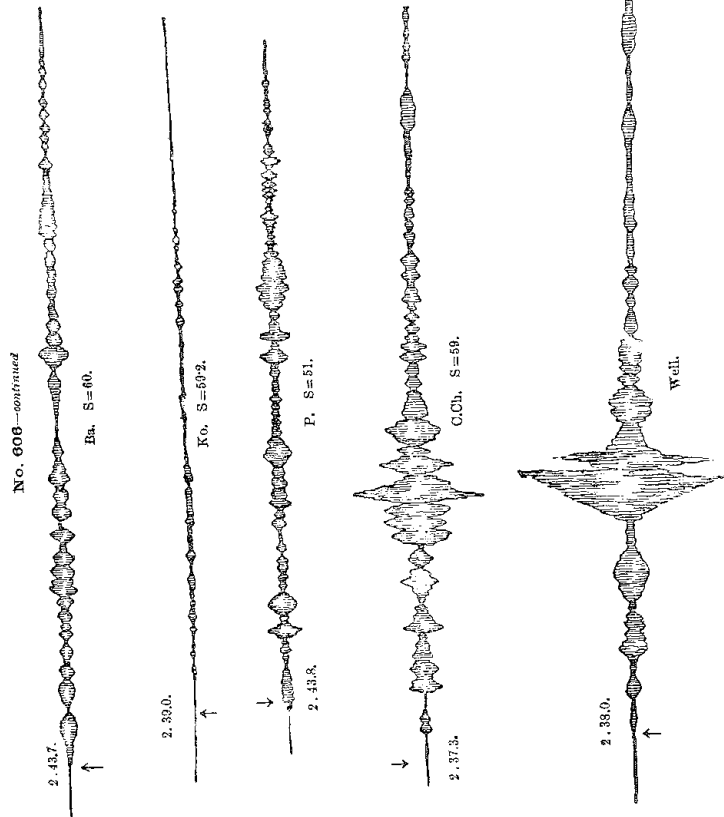
2. 38.4.

G.C.H. S=59.



2. 43.3.

R. S=65.



No. 609.

