

TRANSACTIONS

OF THE

Astronomical and Physical Society of Toronto,

FOR THE YEAR 1892,

INCLUDING THIRD ANNUAL REPORT.



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APPENDIX III.

LANTERN SLIDES, THE PROPERTY OF THE SOCIETY.

1. Mechanical Slide. "The Solar System," showing the revolution of all the planets and their satellites around the sun. Donated by Mr. D. J. Howell.

2. "Sunspots," from negative made by Capt. Ashe, of Quebec, and in possession of Mr. A. Elvins.

3. Another portion of same.

4. (a) "Photograph of a portion of Lyra;" R. A. 29h. 19m.—N. D. 50° 0', 18th June, 1887. Donated by MM. Henry Brothers, of the Observatory, Paris, France.

5. (b) "Photograph of a portion of Cygnus;" R. A. 20h. 4m.—N. D. 54° 30', 28th July, 1886. Donated by Henry Brothers.

6. (c) "Photograph of a portion of Lyra;" R. A. 18h. 34m.—N. D. 59° 0', 17th June, 1887. Donated by Henry Brothers.

7. (d) "Photograph of a portion of the Moon's surface."

8. (e) " " " " "

9. (f) " " " " "

From photographs presented to the Society by the Henry Brothers.

10–11. Two Lunar photographs reproduced in *Knowledge* from negatives by the Henry Brothers, of Paris.

12–13. "The Moon in three phases," from negatives made at the Lick Observatory (no date).

14. "Photograph of a portion of the Moon's Surface," from negative made at the Lick Observatory (no date).

15. "Photograph of the total eclipse of the Sun, January 1st, 1891," from negative made at the Lick Observatory.

16. "Photograph of the Solar Disc, partially eclipsed by the Moon," from negative made at the Lick Observatory.

17. "Copy of engraving of Saturn."

18. "Photograph of Saturn," from negative made at the Lick Observatory.

19–20. "Two views of Mars," from engravings.

21. "Photograph of portion of plaster model of the Moon's surface," by Nasmyth; donated by Mr. A. Elvins.

22. "Copy of engraving of total eclipse of time Sun," showing the solar atmosphere, from "The New Astronomy," in *The Century Magazine*.

23–25. Copies of engravings from same article, showing the Sun's Surface and a series of spots.

26. "Shooting Stars ; " copy of engraving in *The Century Magazine* : "Comets and Meteorites."

27. "Donati's Comet;" copy of engraving from *The Century Magazine*.
- 28.29. Photographs, from Knowledge, of portions of the Sun's Surface, showing the rice-grain and willow-leaved structure; also, two spots without penumbra.
30. Copy of engraving of the Great Nebula in Andromeda, from photograph by Mr. Isaac Roberts, F.R.A.S.
- 31-39. Copies of plates in "The Stars of Winter," in *Astronomy with an Opera-Glass*; by J. A. Serviss.
40. "Diagram showing Maximum and Minimum of Sunspots in Fifteen"—Years;" 1874 to 1888 inclusive,
41. "Diagram by Elvins of Storm Periods and Solar Activity."
42. "Chart of Magnetic Variations and Solar Activity for Sixteen Years"—from 1873 to 1888 inclusive.
43. "Diagram by Elvins of Solar Activity, Storms, Magnetic Variation, etc."°
44. "Copy of engraving of the Planet Jupiter."
- 45-46. Two portraits of the late R. A. Proctor.

Besides the above slides, there are :—

- (a) A fine 8-10 negative of the Moon; diameter of disc, five inches.
- (b) One positive print on glass, "Transit of Mercury, May 9, 1891;" size, $6\frac{1}{2} \times 8\frac{1}{2}$ inches; diameter of Sun's disc, $4\frac{3}{8}$ inches.
- (c) One positive print on glass, "The Transit of Venus, 1882," $6\frac{1}{2} \times 8\frac{1}{2}$ inches; Sun's disc, $4\frac{1}{2}$ inches.
- (d) One positive print on glass of "A Portion of the Cluster in Perseus," 8×10 inches, made November 3rd, 1890.
- (e) One positive print on glass, 8×10 inches, of the Sun's Surface, showing Sunspot, February 11th, 1892, 10h. 35m. 48s., P. S. T.; Sun's disc, $4\frac{1}{2}$ inches.

The above were presented to the Society by Prof. E. S. Holden, LL.D., Director of the Lick Observatory.
