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## Collection Summary

**Repository:** Archives and Special Collections, Vassar College Libraries

**Creator:** Mitchell, Maria, 1818-1889

**Title:** Maria Mitchell Papers

**Inclusive Dates:** 1843-2016

**Bulk Dates:** 1853-1889

**Quantity:** 12 cubic feet (55 boxes, 9 microfilm reels, 1 OV folder)

**Abstract:** Correspondence, manuscripts, research material, photographs, and glass plate negatives relating to Mitchell's work as an astronomer and member of the faculty of Vassar College.

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## Biographical Note

Maria Mitchell, astronomer, was born on the island of Nantucket in 1818. Through her father, William Mitchell, she became interested in astronomy and assisted him in his observatory. In the late 1830s she was appointed librarian at the Nantucket Athenaeum, using its collection to educate herself while she worked with her father in the evenings. In 1847 she discovered a new comet, named for her, and was subsequently awarded a gold medal by the King of Denmark. A year later she became the first woman elected to the American Academy of Arts and Sciences in Boston; in 1850 she was elected to the American Association for the Advancement of Science.

At the urging of Matthew Vassar, who was eager to add a woman of considerable stature to his first faculty, Maria Mitchell came to Vassar in 1865, where an observatory with a telescope containing a 12-inch lens was built for her. The materials in the Vassar collection reflect her twenty-three years at Vassar, where she became one of the college's best and most well-known teachers. During this time, she continued her own research and publications. A founder of the Association for the Advancement of Women, she urged that women's ability in the sciences be recognized and that the scientific method be applied to the solution of social problems. In recognition of her breadth of outlook, Maria Mitchell was elected to the American Philosophical Society in 1869, and in 1873 was made a vice-president of the American Social Science Association. Retiring from Vassar in 1888, she went to Lynn, Massachusetts, to work in the small observatory she had built there. She died the next year of "brain disease" and was buried on Nantucket.

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## Scope and Content Note

These papers reflect Mitchell's professional life and include thirty-one notebooks of astronomical observations; observatory photographs; glass plate negatives; manuscripts, notes, and drawings; letters regarding the Nautical Almanac computations, 1853; notes for preparing Vassar College Astronomy Department reports, 1871-1886; and correspondence, 1861-1889, including her letters to Benson J. Lossing, Ann Eliza Morse, John H. Raymond, Mrs. John H. Raymond, Cyrus Swan, and James Monroe Taylor, and letters from James Edward Oliver, Arthur Searle, Rufus Babcock, Charles Farrar, Nathan Bishop, and Vassar College Presidents John H. Raymond and James M. Taylor. Other items include research correspondence about Mitchell, 1907-1974; excerpts from Vassar College Trustee minutes and copies of correspondence regarding the Astronomy Department, the Observatory, and Mitchell's salary, 1862-1872; publications by Mary W. Whitney, Mary King Babbitt, and others about Mitchell; and letters from Helen Wright concerning her biography of Mitchell, circa 1949.

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## Arrangement

The collection is organized into ten series.[Top](#)

## Access and Use

### Access

This collection is open for research according to the [regulations of the Vassar College Archives and Special Collections Library](#) without any additional restrictions.

### Restrictions on Use

Permission to quote (publish) from unpublished or previously published material must be obtained as described in the [regulations of the Vassar College Archives and Special Collections Library](#).

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## Related Material

### Related Materials

- [Maria Mitchell Papers, Archives, The Nantucket Maria Mitchell Association.](#)
- Nantucket Maria Mitchell Association Reports and Miscellaneous Pamphlets [520.92 M695 and 520.92 M6952], Rare Book Collection, Archives and Special Collections, Vassar College Libraries.
- [Vassar College Astronomy Department Records, Archives and Special Collections, Vassar College Libraries.](#)

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## Subject Headings

### Names:

- Babbitt, Mary King, 1861-1912
- Babcock, Rufus, 1798-1875
- Bishop, Nathan, 1808-1880

- Farrar, Charles S. (Charles Samuel), 1826-1903
- Morse, Ann Eliza
- Oliver, James Edward, 1829-1895
- Raymond, Cornelia M., 1861-1952
- Raymond, John H. (John Howard), 1814-1878
- Searle, Arthur
- Swan, Cyrus
- Taylor, James Monroe, 1848-1916
- Whitney, Mary Watson, 1847-1921
- Wright, Helen, 1914-1997

## Organizations:

- American Academy of Arts and Sciences
- Association for the Advancement of Women
- Vassar College--Faculty
- Vassar College. Board of Trustees
- Vassar College. Department of Astronomy
- Vassar College. Observatory

## Subjects:

- Astronomers
- Astronomy--Observations
- Astronomy--Study and teaching
- Nautical almanacs
- Women college teachers
- Women's colleges--New York (State)--Poughkeepsie
- Women--Education

## Document Types:

- Correspondence
- Drawings (visual works)
- Notebooks
- Photographs
- Wet collodion negatives

## VCL Categories:

- Math, Science and Medicine
- Vassar College

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## Encoding Information

Encoded by Elizabeth Clarke and Laura Streett, November 2006. Updated by Mark Seidl, November 2019. Last updated by Emma Gronbeck, September 2024.

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## Administrative Information

### Preferred Citation

Maria Mitchell Papers, Archives and Special Collections, Vassar College Libraries.

### Processing Information

Original processing date unknown.

Updated August 1998 and April 2009.

### Acquisition Information

Gift of various donors.

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### Series List

#### **Series I. Correspondence, 1849-1946 [Boxes 1-5]**

- Letters to Maria Mitchell
- Letters from Maria Mitchell
- Letters about Maria Mitchell
- Correspondence re: Maria Mitchell As Her Students Knew Her
- Correspondence re: Sweeper in the Sky

#### **Series II. Vassar College Astronomy Department, 1871-1886 [Box 6]**

#### **Series III. Maria Mitchell's Dome Parties, 1870 [Box 6]**

#### **Series IV. Mitchell Notes, Lecture Notes, and Notebooks, 1843-1893 [Boxes 6-13]**

#### **Series V. Biographical Information, 1874-2007 [Box 14]**

#### **Series VI. Biographies of Maria Mitchell, 1932, 1984 [Box 14]**

## **Series VII. Publications, 1796-1995 [Boxes 15-16]**

## **Series VIII. Oversized Material, undated [Box 17]**

## **Series IX. Microfilm of Maria Mitchell Association Collection, 1831-1888 [Reels 1-9]**

The copy of this microfilm was obtained by the Vassar College Libraries from the American Philosophical Society with the permission of the Nantucket Maria Mitchell Association.

Note regarding Reel 7, Item 64: There is no item 64.

## **Series X. Glass Plate Negatives, 1871-1890 [Boxes 18-19, Negative Boxes 1-36]**

Glass plate negatives for images of Mitchell's observations of sun spots and other astronomical phenomena. Includes 808 plates in 36 boxes.

Observers responsible for taking the negatives include both students and faculty at Vassar, all identified by surname. Faculty noted as observers include: Maria Mitchell, Priscilla Braislin, and Mary W. Whitney.

Student observers most likely include: Helen M. Arnold (VC 1874), [Martha] Boyd (VC 1883), [Nannie] Braden (VC 1879), [Marian H.] Bradley (VC 1887), [Annie C.] Buck (VC 1886), [Harriet L.] Cady (Ex VC 1881), [Nellie H.] Canfield (VC 1887), Mary E. Case (VC 1882), Lucy Davis (VC 1885), [Elizabeth] Deming (VC 1885), [Alla W.] Foster (VC 1872), Caroline E. Furness (VC 1891), Ella Gardner (VC 1877), M. Louise Greene (VC 1891), Josephine Harrison (VC 1881), Bertha Hazard (VC 1879), E. Carol Hodge (VC 1881), Adaline L. Jenckes (VC 1887), Rose M. Kavana (VC 1891), Emily Lewi (VC 1888), Caroline G. Lingle (VC 1886), Katherine M. Lupton (VC 1873), Hannah F. Mace (VC 1890), Frances M. Macy (VC Art 1978-1979), Cornelia W. Marsh (VC Spec 1871-1873), Antonia C. Maury (VC 1887), Eliza L. McCreery (VC 1888), [Margaretta] Palmer (VC 1887), M. Eva Perry (VC 1873), Louisa B. Poppenheim (VC 1889), Cornelia M. Raymond (VC 1883), Mary Augusta Scott (VC 1876), [Frances] Southworth (VC 1886), Annie T. Spalding (VC Ex 1884), [Helen] Stanton (VC 1886), Lucretia A. Stow (VC 1874), Mary Sudduth (VC 1883), Helen Tunnicliff (VC 1889), Esther Witkowsky (VC 1886), and [Laura Johnson] Wylie (VC 1877).

Arranged chronologically.

## **Container List**

### **SERIES I. CORRESPONDENCE, 1849-1946**

#### **Letters to Maria Mitchell**

Folder 1.1	from [Stephen] M. Buckingham, 1871 Jun 20 (MS)
Folder 1.2	from C. H. Davis, 1853 Jun 24 (MS)
Folder 1.3	from B. S. Hendrick, 1853 Jun 1 (MS)

Folder 1.4 from B. S. Hendrick, 1853 Apr 27 (MS)

Folder 1.5 from B. S. Hendrick, 1853 Jul 15 (MS)

Folder 1.6 from B. S. Hendrick, 1853 Jul 25 (MS)

Folder 1.6a from [Mary] A. Livermore, 1876 Feb 20 (MS)

Folder 1.7 from [James Edward] Oliver, 1871 Nov 25 (MS, TS)

Folder 1.8 from J. H. R. [John H. Raymond], undated (TS)

Folder 1.9 from Arthur Searle, 1877 Feb 7 (MS)

Folder 1.10 from Arthur Searle, 1877 Mar 16 (MS)

Folder 1.11 from [Ellen] H. Swallow, 1872 Nov 29 (TS)

Folder 1.12 from [James Monroe] Taylor, 1888 Jan 9 (MS, TS [draft?])

#### **Letters from Maria Mitchell**

Folder 1.13 to Elizabeth Owen Abbot, [circa 1874 Feb 14] (MS)

Folder 1.14 to Alvin Clark & Sons, 1887 Jun 21 (MS)

Folder 1.15 to Rev. [E. G.?] Ames, [circa 1887 Nov 5] (MS)

Folder 1.16 to Dr. Rufus Babcock, 1862 Oct 23 (MS, TS)

Folder 1.17 to Dr. Rufus Babcock, 1864 Mar 18 (MS, TS)

Folder 1.18 to Dr. Rufus Babcock, undated (MS, TS)

Folder 1.19 to Rev. Bartol, 1873 Dec 1 (MS, TS)

Folder 1.20 to President [Samuel L.] Caldwell, 1882 May 13 (TS)

Folder 1.20 to Miss Caufield, 1886 May 30 (MS)

Folder 1.21 to Professor [LeRoy C.] Cooley, undated (MS, TS)

Folder 1.22 to Miss Day, 1886 Jun 25 (MS, TS)

Folder 1.23 to Dr. [William B.] Dwight, undated (MS)

Folder 1.23 to Miss Fletcher, undated (TS)

Folder 1.24 to President Folwell, 1880 May 24 (TS)

Folder 1.24 to Mrs. Gibson, 1888 May 29 (Reprint)

Folder 1.25 to Miss Hillhouse, [no year] Aug 3 (MS, TS)

Folder 1.26 to Mary A. Hopson, [1883] Nov 26 (MS, TS)

Folder 1.27 to Joseph N. Jackson, 1869 Sep 17 (MS, TS)

Folder 1.28 to Kate, 1861 Jan 4 (MS, TS)

Folder 1.29 to Dr. [J. Ryland] Kendrick, 1881 Nov 15 (MS)

Folder 1.30 to Miss [Ella C.] Lapham, undated (TS)

Folder 1.30 to Mrs. [Mary] Livermore, [no year] Aug 23 (MS, TS)

Folder 1.31 to Mrs. Gay, [1854 Sep] (MS)

Folder 2.1 to Benson J. Lossing, 1867 Mar 13 (MS, TS)

Folder 2.2 to Benson J. Lossing, 1867 Mar 15 (MS)

Folder 2.3 to Benson J. Lossing, 1868 Jul 12 (MS, TS)

Folder 2.4 to Benson J. Lossing, 1868 Nov 4 (MS, TS)

Folder 2.5 to Benson J. Lossing, 1868 Nov 4 (MS, TS)

Folder 2.6 to Benson J. Lossing, [1870?] Jul 13 (MS, TS)

Folder 2.7 to Benson J. Lossing, 1871 May 20 (MS, TS)

Folder 2.8 to Benson J. Lossing, 1871 Jun 8 (MS)

Folder 2.8 to Benson J. Lossing, 1871 Aug 3 (TS)

Folder 2.9 to Benson J. Lossing, 1871 Nov 10 (MS, TS)

Folder 2.10 to Benson J. Lossing, 1871 Dec 16 (MS, TS)

Folder 2.11 to Benson J. Lossing, 1872 May 9 (2 MS, TS)

Folder 2.12 to Benson J. Lossing, [1872?] Jul 3 (MS)

Folder 2.13 to Benson J. Lossing, 1875 Jun 12 (MS, TS)

Folder 2.14 to Benson J. Lossing, 1877 Jun 12 (MS, TS)

Folder 2.15 to Benson J. Lossing, 1879 Jun 12 (MS, TS)

Folder 2.16 to Benson J. Lossing, 1880 May 30 (MS, TS)

Folder 2.17 to Benson J. Lossing, 1880 Jun 14 (MS, TS)

Folder 2.18 to Benson J. Lossing, 1881 Aug 2 (MS, TS)

Folder 2.19 to Benson J. Lossing, 1881 Aug 11 (MS, TS)

Folder 2.20 to Benson J. Lossing, 1885 Sep 16 (MS)

Folder 2.21 to Benson J. Lossing, 1886 Apr 25 (MS, TS)

Folder 2.22 to Benson J. Lossing, [no year] Jun 6 (MS)

Folder 2.22 to Benson J. Lossing, [no year] Jun 20 (TS)

Folder 2.23 to Benson J. Lossing, undated (7 MS, 7 TS)

Folder 2.24 to Mrs. Benson J. Lossing, [no year] Jun 30 (MS, TS)

Folder 2.25 to [Ann] [Eliza] Morse, [1878?] Aug 12 (MS)

Folder 2.26 to A. E. Morse, [1880?] Oct 11 (MS)

Folder 2.27 to A. E. Morse, 1882 Feb 16 (MS, TS [fragment])

Folder 2.28 to A. E. Morse, [1887?] (MS, TS)

Folder 2.29 to A. E. Morse, [1888] Jan 1 (MS, TS)

Folder 2.30 to A. E. Morse, [no year] Mar 24 (MS, TS)

Folder 2.31 to A. E. Morse, [no year] Apr 11 (MS, TS [fragment])

Folder 2.32 to A. E. Morse, [no year] Apr 26 (MS, TS)

Folder 2.33 to A. E. Moore, undated (5 MS, 5 TS)

Folder 3.1 to "My Dear Little Friends," undated (MS)

Folder 3.2 to Isabel Nelson, [circa 1882 May 12] (MS)

Folder 3.3 to Edith Nicholson, undated (MS, TS)

Folder 3.4 to [Louise Parsons], [1870] May 31 (TS)

Folder 3.4 to Mrs. Patton, 1886 Feb 26 (MS)

Folder 3.4 to Mrs. Patton, 1886 Jul 21 (MS, TS)

Folder 3.5 to Cornelia Raymond [daughter of John H. Raymond], [circa 1885 Mar 4] (MS, TS)

Folder 3.6 to Cornelia Raymond, undated (MS, TS)

Folder 3.7 to John H. Raymond, 1867 Jul 29 (MS, TS)

Folder 3.8 to John H. Raymond, 1868 Jul 8 (MS, TS)

Folder 3.9 to John H. Raymond, 1868 Aug 22 (MS, TS)

Folder 3.10 to John H. Raymond, 1868 Dec 7 (MS, TS)

Folder 3.11 to John H. Raymond, 1869 Apr 25 (MS, TS)

Folder 3.12 to John H. Raymond, 1869 Oct 2 (MS, TS)

Folder 3.13 to John H. Raymond, 1870 May 16 (MS, TS)

Folder 3.14 to John H. Raymond, 1870 May 16 (MS, TS)

Folder 3.15 to John H. Raymond, [1871 Feb 28] (MS, TS)

Folder 3.16 to John H. Raymond, 1873 Dec 5 (MS, TS)

Folder 3.17 to John H. Raymond, undated (5 MS, 5 TS)

Folder 3.18 to Mrs. John H. Raymond [Cornelia M. Raymond], [1878] (MS, TS)

Folder 3.19 to Mrs. John H. Raymond, 1881 Aug 3 (MS, TS)

Folder 3.20 to Mrs. John H. Raymond, [1883 Aug 10] (MS, TS)

Folder 3.21 to Mrs. John H. Raymond, 1887 Jan 26 (MS, TS)

Folder 3.22 to Mrs. John H. Raymond, [1889?] (MS, TS)

Folder 3.23 to Mrs. John H. Raymond, [no year] Jan 12 (MS, TS)

Folder 3.24 to Mrs. John H. Raymond, [1878-1883?] Aug 19 (MS, TS)

Folder 3.25 to Mrs. John H. Raymond, [no year] Dec 12 (MS, TS)

Folder 3.26 to Mrs. John H. Raymond, undated (7 MS, 7 TS)

Folder 3.27 to Mary [Carrington] Raymond, [no year] Oct 20 (MS, TS)

Folder 3.27 to Mary C. Raymond, [1878] Jul 9 (TS)

Folder 3.27 to Mary C. Raymond, undated (4 TS)

Folder 3.28 to Mary Carrington Raymond [later Richardson], 1868 Dec 9 (MS)

Folder 3.29 to William James Richardson [son-in-law of Cornelia M. Raymond, wife of President Raymond], [1883 Summer] (MS)

Folder 4.1 to Miss Scott, 1880 Mar 10 (MS, TS)

Folder 4.2 to Mary Scott, [1881 Jul] (MS, TS)

Folder 4.3 to Mary Scott, [1882 Mar 6] (MS, TS)

Folder 4.4 to Mary Scott, [no year] Nov 21 (MS, TS)

Folder 4.5 to Miss A. Scott, [no year] Apr 1 (MS, TS)

Folder 4.6 to Miss A. Scott, undated (3 MS, TS)

Folder 4.7 to Marion Scribner and Family, 1872 Oct 23 (MS)

Folder 4.8 to Cyrus Swan, 1865 Dec 19 (MS, TS)

Folder 4.9 to Cyrus Swan, [1866 Jan] (MS, TS)

Folder 4.10 to Cyrus Swan, [1866 Apr 4] (MS, TS)

Folder 4.11 to Cyrus Swan, 1866 Aug 14 (MS, TS)

Folder 4.12 to Cyrus Swan, 1866 Aug 28 (MS, TS)

Folder 4.13 to Cyrus Swan, [1871?] Nov 13 (MS)

Folder 4.14 to Cyrus Swan, [1871 Nov 15] (MS)

Folder 4.15 to Cyrus Swan, [1871?] Nov 26 (MS)

Folder 4.16 to Cyrus Swan, [no year] Nov 14 (MS)

Folder 4.17 to Frances Swan, [no year] Jun 2 (MS)

Folder 4.18 to Frances Swan, [no year] Jul 10 (MS)

Folder 4.19 to Frances Swan, undated (2 MS)

Folder 4.19 to Willie [Swan], undated (MS, TS)

Folder 4.20 to James Monroe Taylor, 1888 Jan 8 (MS, TS)

Folder 4.21 to James Monroe Taylor, 1888 Jan 15 (MS, TS)

Folder 4.22 to James Monroe Taylor, [1888 Jun] (MS, TS)

Folder 4.23 to James Monroe Taylor, [1888] Oct 18 (MS, TS)

Folder 4.24 to James Monroe Taylor, [1888] Jan 17 (MS, TS)

Folder 4.25 to Robert Taylor, [circa 1888 Jan 15] (MS, TS)

Folder 4.26 to John Thompson, undated (MS, TS)

Folder 4.27 to "Trustees of Vassar College..," [1872 Jun 24] (MS, TS)

Folder 4.28 to Matthew Vassar, 1862 Nov 22 (MS, TS)

Folder 4.29 to Miss [Mary] Whitney, [circa 1888 Jan 11] (MS, TS)

Folder 4.30 to Frances Wood, undated (MS, TS)

Folder 4.31 to Ida Wood, [circa 1886 Oct 23] (MS, TS)

Folder 4.32 to Ida Wood, [1888?] (MS, TS)

Folder 4.32 to Ida Wood, undated (MS, TS)

Folder 4.33 to Miss Wood, [1878?] Aug 12 (TS)

Folder 4.34 to unknown addressee, 1874 Feb (TS)

Folder 4.35 Fragments, undated (3 MS, 3 TS)

Folder 4.35 Fragment, "I send what I call a good view ..." (includes hand-drawn diagram of Vassar College Observatory), undated

#### Letters about Maria Mitchell

Folder 5.1 [Rev.] [Rufus] Babcock to [Matthew] Vassar, 1862 Sep 8 (MS, TS)

Folder 5.2 [Rev.] Rufus Babcock to [Matthew] Vassar, 1862 Sep 10 (MS, TS)

Folder 5.3 George F. Barnard to Moses A. Cartland, 1849 Apr 29 (TS)

Folder 5.4 Nathan Bishop to Dr. [Samuel L.] Caldwell, 1879 Mar 1 (MS, TS)

Folder 5.5 Alexis Caswell to Rev. Dr. Babcock, 1862 Sep 4 (MS, TS)

Folder 5.6 Charles Farrar to President [John H.] Raymond, 1865 Feb 13 (MS, TS)

Folder 5.7 Martha LeB. Goddard to Mrs. Spaulding, 1875 Sep 24 (TS)

Folder 5.8 Abby M. Goodwin to Miss [Mary] Whitney, 1887 Dec-1888 Jan (2 TS)

Folder 5.9 Alice Hayes to Prof. Whitney, 1916 May 28 (TS)

Folder 5.10 Phoebe Mitchell Kendall to [James Monroe] Taylor, 1889 Oct 28 (TS)

Folder 5.11 Anne Mitchell Macy to Dr. [James Monroe] Taylor, 1889 Jun 28 (MS, TS)

Folder 5.12 Anne Mitchell Macy to Dr. [James Monroe] Taylor, 1889 Jul 27 (MS, TS)

Folder 5.13 [Ann Mitchell] Macy to President [James Monroe] Taylor, 1889 Jun 29 (MS, TS)

Folder 5.14 Anne Mitchell Macy to Miss [Mary] Whitney, 1888 Mar 21 (TS)

Folder 5.15 Frances M. Macy to Dr. [James Monroe] Taylor, 1889 Jun 28 (MS, TS)

Folder 5.16 Henry Mitchell to President [James Monroe] Taylor, 1889 Jun 29 (MS, TS)

Folder 5.17 Henry Mitchell to Prof. [Mary] Whitney, 1890 Jan 21 (MS, TS)

Folder 5.18 Maria Mitchell and Alida Avery to Board of Trustees regarding terms of employment, undated (TS)

Folder 5.19 William Mitchell to Mary Carrington Raymond, 1868 Oct 2 (TS)

Folder 5.19 William Mitchell to Mary Carrington Raymond, 1869 Jan 15 (MS)

Folder 5.20 William Mitchell to [Maria Louise Booth], 1868 Nov 21 (MS, TS)

Folder 5.21 Benjamin Pierce to Dr. Babcock, 1862 Aug 30 (MS, TS)

Folder 5.22 [John] H. Raymond to President Magill, 1874 Jun 15 (MS, TS)

Folder 5.23 [Mary C. Raymond] to Nell [Cornelia Raymond], [1885] Feb 1 (TS)

Folder 5.24 [Cyrus] Swan to [James Monroe] Taylor, 1888 Jan 11 (MS, TS)

- Folder 5.25 [James] [Monroe] Taylor to Miss [Mary] Whitney, 1888 Jan 11 (TS)
- Folder 5.26 [Mary] W. Whitney to Dr. [James Monroe] Taylor, undated (MS, TS)
- Folder 5.27 Correspondence re: Dassel and Humbolt paintings, 1889-1940

**Correspondence about Maria Mitchell As Her Students Knew Her**

- Folder 5.28 Mary King Babbitt re: Maria Mitchell As Her Students Knew Her, 1912-1915
- Folder 5.29 Mary King Babbitt re: Maria Mitchell As Her Students Knew Her, undated

**Correspondence about Sweeper in the Sky**

- Folder 5.30 Helen Wright re: Sweeper in the Sky, 1939-1940
- Folder 5.31 Helen Wright re: Sweeper in the Sky, 1946, undated

**SERIES II. VASSAR COLLEGE ASTRONOMY DEPARTMENT, 1871-1886**

- Folder 6.1 Department reports 1871-1886, undated
- Folder 6.2 List of donations of books to the V. C. Observatory, undated
- Folder 6.3 Astronomical Classes at V. C. Observatory, undated
- Folder 6.4 Student (?) notes on reversing of transit instruments, undated
- Folder 6.5 Student (?) paper with drawings, undated
- Folder 6.6 Astronomical photographs, undated

**SERIES III. MARIA MITCHELL'S DOME PARTIES, 1870, undated**

- Folder 6.7 First Dome Party, 1870
- Folders 6.8-6.11 Dome Party: Verses, undated

**SERIES IV. MITCHELL NOTES, LECTURE NOTES, AND NOTEBOOKS, 1843-1893**

**Notes and Lecture Notes**

Folder 6.12 Comet of 1881, undated

Folder 6.13 Eclipse for 1885, undated

Folder 6.14 Lecture notes: "Periods of Nature," undated

Folder 6.15 Lecture notes: "The Sun Dial," undated

Folder 6.16 Lecture notes on astronomical attraction, undated

Folder 6.17 Miscellaneous fragments, undated

Folder 6.18 "My Dear Little Nellie" [poem by Mitchell written for Cornelia Raymond, President John Raymond's daughter], undated (MS)

Folder 6.19 Astronomical drawings, undated

**Notebooks and Scrapbooks**

Folder 7.1 Scrapbook of newspaper clippings on comets, 1843-1882

Folder 7.2 Notebook, undated

Folder 7.3 Notebook: Book of questions, undated

Folder 7.4 Notebook: Lectures [by Benjamin Peirce] on Quaternions, 1869-1870

Folder 7.5 Notebook: Observing -- rough notes, 1884 May - 1885 Jan

Folder 7.6 Notebook: Rough records of Observatory, 1885 Oct - 1886 Feb

Folder 7.7 Notebook: Observatory rough work, some Jupiter, 1885

Folder 7.8 Notebook: Rough work, 1886 Feb

Folder 7.9 Notebook: Observatory, 1886 Sep - 1887 Feb

Folder 8.1 Notebook: 1st rough observations with Equatoreal, 1865-1866

Folder 8.2 Notebook: Rough work, Recomputing of Decs. of zenith stars, no. 1, undated

Folder 8.3 Notebook: Rough work, Recomputing of zenith stars, no. 2, undated

Folder 8.4 Notebook: Rough work, [Recomputing zenith of?] stars, no. 3, [1872-1873]

Folder 8.5 Notebook: Recomputing of zenith disks, no. 4, undated

Folder 8.6 Notebook: Longitude computations of occultations, 1872-1875

Folder 8.7 Notebook: Sun, meteors and other phenomena (including remarkable meteoric evening of 27 November 1872), 1870-1873

Folder 8.8 Notebook: Observations of classes of 1866-67 and 1867-68, undated

Folder 8.9 Notebook: Student observations; meteors, 1866 Mar 22-Oct 31; 1867 Nov 12

Folder 8.10 Notebook: Astronomical observations of the Advanced class, 1868-1869

Folder 8.11 Notebook: Observations of class of 1868-69, no. 2 undated

Folder 9.1 Notebook: Class observations for time, 1872

Folder 9.2 Notebook: Sun, meteors, etc.; Risings and settings of planets, etc.; Miss Kellogg's record of August meteors, 1873-1874

Folder 9.3 Notebook: Anna Mineah [student], undated

Folder 9.4 Notebook: S. C. Blatchley [student?] observations, 1866

Folder 9.5 Notebook: Observatory, Saturn, 1877 Sep - 1878 Jan

Folder 9.6 Notebook: Meteors, students' notes, sun spots, 1875-1876

Folder 9.7 Notebook: Meteors and students' notes, 1876 Nov

Folder 9.7 Notebook: variable stars, 1896-

Folder 9.8 Notebook: Class rough records, 1886 May-Nov

Folder 10.1 Notebook: Observations with the twelve-inch equatorial, 1866 Apr 13 - 1877 Jun 17

Folder 10.2 Notebook: twelve-inch equatorial, 1876 Sep 28 - 1879 Oct 19

Folder 10.3 Notebook: twelve-inch equatorial, 1879 Oct 25 - 1886 May 31

Folder 11.1 Notebook: Observations for time and for longitude; transit instrument, 1865 Sep 22 - 1871 Dec 6

Folder 11.2 Notebook: Transit instrument, 1878 May 5 - 1887 Dec 8

Folder 11.3 Notebook: Observations with meridian instrument and zenith telescope, undated

Folder 12.1 Notebook: Washington and Cambridge, record of time signals received from Washington, 1876 May 2 - 1876 Jun 21

Folder 12.2 Notebook: Longitude, Cambridge and Vassar, 1877 May

- Folder 12.3 Notebook: Venus transit, 1882 Dec 6
- Folder 12.4 Notebook: [Planets and their moons], p. 1-64, 1879 Sep 24 - 1880 Jan 26
- Folder 12.4 Notebook: [Planets and their moons], p. 65-200, notes of Mary W. Whitney, Caroline E. Furness, and other students, 1891 Sep 26 - 1903 Nov 11
- Folder 13.1 Notebook: [Caroline] E. Furness, [Maria Mitchell], R. L. Kimball, McGlynn Center, undated
- Folder 13.2 Notebook: Meteors, undated
- Folder 13.3 Notebook/scrapbook on Chauvenet, 1872
- Folder 13.4 Notebook/scrapbook on Chauvenet, undated
- Folder 13.5 Notebook: Sun spots, 1883 Mar 15 - 1893 Jun 12
- Folder 13.6 Notebook: Observations for latitude, undated
- Folder 13.7 Notebook: Memoirs of the Royal Astronomical Society, Vols. XVIII-L, Years 1848-1891, circa 1891

## **SERIES V. BIOGRAPHICAL INFORMATION, 1874-2007**

- Folder 14.1 Biographical notes, undated
- Folder 14.2 Association for the Advancement of Woman. Committee on Science circular, undated
- Folder 14.3 Bust of Maria Mitchell, 1874-1968
- Folder 14.4 Maria Mitchell Endowment Fund, 1887-1897
- Folder 14.5 Death of Maria Mitchell, 1889
- Folder 14.6 Nantucket Maria Mitchell Association, 1902-1926
- Folder 14.7 Nantucket Maria Mitchell Association, 1930-1938
- Folder 14.7 Nantucket Maria Mitchell Association, 1968, 2002, undated
- Map Case — Nantucket Maria Mitchell Association - Poster and facsimile of map of Nantucket surveyed by [William] Mitchell, circa 2001-2007
- Drawer 37
- Folder 14.8 Hall of Fame, New York University, 1907-1925
- Folder 14.9 Evalyn A. Clark Symposium: Maria Mitchell and Her Influence, 1989
- Folder 14.10 Maria Mitchell-Daughter of Nantucket, 1997

## **SERIES VI. BIOGRAPHIES OF MARIA MITCHELL, 1932, 1984**

Folder 14.10 Maria Mitchell, Pioneer Woman Astronomer by Dorrit Hoffleit, 1984

Folder 14.11 Maria Mitchell and Vassar College - Club Paper by Mary A. Mineah (?), [1932]

Folder 14.12 Life and Work by Mary Whitney, pp. 1-9, undated

Folder 14.13 Life and Work by Mary Whitney, pp. 10-22, undated

Folder 14.14 Life and Work by Mary Whitney [another draft], undated

Folder 14.15 [Untitled, by unknown author], undated

## **SERIES VII. PUBLICATIONS, 1796-1995**

### **Works from the library of Maria Mitchell**

Folder 15.1 The Domain of Physiology, by T. Sterry Hunt (Boston: 1882) 1882

Folder 15.2 Instructions for Observing the Transit of Venus, December 6, 1882 (Washington: 1882) with photograph of transit of Venus taken at Vassar College, 1882 Dec

Folder 15.3 The Shorter Catechism of the Westminster Assembly (NY: [n. d.]) undated

Folder 15.4 View of Dr. Herschel's Telescope [engraving] with page from The Universal Magazine, 1796

### **Works about Maria Mitchell**

Folder 15.5 Maria Mitchell bibliography, undated

Folder 15.6 Newspaper clippings, 1858-1896

Folder 15.7 Newspaper clippings, 1910-1942

Folder 15.8 Newspaper clippings, 1949-1966

Folder 15.9 Newspaper clippings, 1968-1995

Folder 15.10 Newspaper clippings, undated

Folder 15.11 Correspondence Relative to the Award of the King of Denmark's Comet Medal to Miss Maria Mitchell of Nantucket ... (Cambridge: 1857) with Maria Mitchell Library reprint and holograph notebook of the work 1857

**Journal articles, Book Chapters, and Pamphlets**

Folder 16.1 Publications, 1868, 1886-1893

Folder 16.2 Publications, 1895-1936

Folder 16.3 Publications, 1938-1968

Folder 16.4 Publications, 1969-1979

Folder 16.5 Publications, 1989-1990, undated

**SERIES VIII. OVERSIZED MATERIAL, undated**

Folder 17.1 Fingerprints of Maria Mitchell, undated

Folder 17.2 Pencil portrait by C. Wenige of William and Lydia Coleman Mitchell, parents of Maria, [before 1855?]

Folder 17.3 Engraving of Maria Mitchell, undated

Folder 17.4 Mitchell family coat of arms, undated

Folder 17.5 Plan of Sherburne Bluffs, Nantucket, Mass, undated

**SERIES IX. MICROFILM, 1831-1888**

Reel 1, Item 1 William Mitchell. Autobiography. b. 20 December 1791

Reel 1, Item 2 William and Maria Mitchell Correspondence [with scientists such as]:

Reel 1, Item 2 G. B. Airy

Reel 1, Item 2 A. D. Bache

Reel 1, Item 2 J. F. Bowditch

Reel 1, Item 2 Alvan Clark

Reel 1, Item 2 James D. Dana

Reel 1, Item 2 C. H. Davis

Reel 1, Item 2 B. A. Gould

Reel 1, Item 2	Edward Everett Hale
Reel 1, Item 2	Joseph G. Harlan
Reel 1, Item 2	Joseph Henry
Reel 1, Item 2	Mathew Fontain Maury
Reel 1, Item 2	Benjamin Pierce
Reel 1, Item 2	and others
Reel 1, Item 3	William Mitchell Observations of the Eclipse of the Sun, 1831
Reel 1, Item 4	William Mitchell Meteorological Observations at Nantucket, 1857-1861
Reel 1, Item 4	William Mitchell Meteorological Observations at Lynn, Mass, 1861-1865
Reel 1, Item 5	William Mitchell Meteorological Observations continued by Maria Mitchell, 1865, 1869-1872
Reel 1, Item 6	William Mitchell Meteorological Observations at Nantucket, 1849 Jul - 1856
Reel 2, Item 7	William Mitchell Observations made for the purpose of correcting the chronometers of whale ships (also includes observations of the Comet of 1847 for which Maria Mitchell obtained the gold medal from the King of Denmark), 1845-1850
Reel 2, Item 8	William Mitchell Manuscript of a lecture on comets, 1842
Reel 2, Item 9	William Mitchell Correspondence with family and personal friends
Reel 2, Item 10	William Mitchell Lecture on stars
Reel 2, Item 11	William Mitchell
Reel 2, Item 11	Notebook, astronomical records, surveying notes. Account of Encke's Comet by Walter Folger
Reel 2, Item 12	William Mitchell Lectures on the moon, distances, eclipses
Reel 2, Item 13	William Mitchell Meteorological Observations, 1844-1849
Reel 2, Item 14	William Mitchell Journal of Weather [Nantucket], 1848
Reel 2, Item 14	Scrapbook and clippings, 1835-1840
Reel 2, Item 15	William Mitchell A brief memoir of the late Walter Folger
Reel 2, Item 16	Maria Mitchell Diary On travels in Europe [George Airy] Poems for children, 1854-1857
Reel 2, Item 17	Maria Mitchell Lectures telling of trip to Europe and Russia Travels with the Hawthornes, 1873

Reel 2, Stay in Rome Visit to Vatican Observatory and Angelo Secci Lectures to students on Women's Rights, 1857-1858

Item 17

Reel 3, Maria Mitchell Correspondence relating to the awarding of the gold medal [William Mitchell, letters from Edward Everett, 1848-1864]

Item 18

Reel 3, Maria Mitchell Lecture notes: observations to be made by students

Item 19

Reel 3, Maria Mitchell Lecture notes: lessons in observing [class notes: 1866], 1866

Item 20

Reel 3, Maria Mitchell Notes on Saturn, 1877-1883

Item 21

Reel 3, Maria Mitchell Diary notes, 1882

Item 21

Reel 3, Maria Mitchell Lecture notes: notes on meteors and some correspondence

Item 22

Reel 3, Maria Mitchell Lecture notes: notes on distances, 1870

Item 23

Reel 3, Maria Mitchell Lecture notes: combination of ideas for lectures and diary, 1880-1881

Item 24

Reel 3, Maria Mitchell Questions for students - test, etc.

Item 25

Reel 3, Maria Mitchell Notes to Chauvenet - eclipses

Item 26

Reel 3, Maria Mitchell Lectures on precession, sun spots, constellations, occultations, cycles of time, comets. Some diary notes for 1867 and [class notes], 1867

Item 27

Reel 3, Maria Mitchell[Introductory lecture - remarks on distance of stars] [class notes]

Item 28

Reel 3, Maria Mitchell Lecture: Ideas on Observing, on Women, [1874]

Item 29

Reel 3, Diary notes, 1872-1873

Item 29

Reel 4, Maria Mitchell Subjects of lectures given by students at Vassar and subjects of lectures given by Maria Mitchell, 1881-1887

Item 30

Reel 4, Maria Mitchell Notes and printed references on nautical Almanac. Studies in preparation for computational work done for U.S. Nautical Almanac first published in 1849.

Item 31

Reel 4, Maria Mitchell Lecture notes, undated

Item 32

Reel 4, Observations of Saturn and its satellites, 1877-1882

Item 32

Reel 4, Observations on Mars, 1869

Item 32

Reel 4, Lecture notes on the possibility of an intermercurial planet read in Nov 1869

Item 32

Reel 4, Observations on Mira, 1856-1858

Item 32

Reel 4, Lectures on Seasons

Item 32

Reel 4, Lectures on double stars

Item 32

Reel 4,  
Item 32      Lectures on early astronomers

Reel 4,  
Item 33      Maria Mitchell Lectures on the Eclipse of 7 August 1869

Reel 4,  
Item 33      Lectures on the Sun and Moon

Reel 4,  
Item 33      Lectures on Saturn

Reel 4,  
Item 33      Lectures on the Importance of Using Your Eyes

Reel 4,  
Item 33      Lectures on the Size of the Universe

Reel 4,  
Item 33      Lectures on the Moon [with photograph] and the Moon's Phases

Reel 4,  
Item 33      Motion of the Planets and their Discovery

Reel 4,  
Item 33      Lecture on La Place read February 1868

Reel 4,  
Item 33      Lectures on Accidents in Observing

Reel 4,  
Item 33      Observations of Comets made in Nantucket

Reel 4,  
Item 33      Observations of Comets made at Vassar, 1881-1882

Reel 4,  
Item 33      Lecture on Alvan Clark and Telescope Making

Reel 4,  
Item 33      Notes on Gauss [Nantucket]

Reel 4,  
Item 34      William and Maria Mitchell

Reel 4,  
Item 34      Letters of William, Henry and Maria Mitchell

Reel 4,  
Item 34      Poems written by Maria Mitchell

Reel 4,  
Item 34      Accounts of activities at Vassar [copied from the College newspaper]

Reel 4,  
Item 34      Obituary notices and miscellaneous memorials to Maria Mitchell

Reel 5,  
Item 35      Book of clippings on astronomical observations made by other astronomers

Reel 5,  
Item 36      Correspondence with Sir George Airy and Lady Airy, 1857-1882

Reel 5,  
Item 37      Diary notes and Ideas on Women's Education. Including some observations, 1886-1888

Reel 5,  
Item 38      William and Maria Mitchell

Reel 5,  
Item 38      Autographs, miscellaneous

Reel 5,  
Item 38 Letters to William Mitchell from well-known people, 1825

Reel 5,  
Item 38 Letters to and from Maria Mitchell

Reel 5,  
Item 39 Clippings on Astronomers, on Vassar

Reel 5,  
Item 39 Reports of Comet observations; additional clippings on science and women, etc.

Reel 5,  
Item 40 Maria Mitchell Letters to Maria Mitchell and clippings on astronomical subjects, [1881-1888?]

Reel 5,  
Item 41 William Mitchell Clippings on women and astronomy, obituary of William Mitchell, computations

Reel 5,  
Item 42 Maria Mitchell Early letters to Maria Mitchell received during her trip to Europe, 1857-1858

Reel 6,  
Item 43 Maria Mitchell Photograph and calling cards [Scrapbook of views and calling cards of European trip], [1857-1858?]

Reel 6,  
Item 44 William and Maria Mitchell Letters to Maria Mitchell from astronomers (1869) after her father's death

Reel 6,  
Item 44 Obituaries of William Mitchell

Reel 6,  
Item 45 Maria Mitchell Lecture notes and diary, 1881-1882

Reel 6,  
Item 45 [Maria Mitchell private notes], 1881-1882

Reel 6,  
Item 46 Maria Mitchell Notebook on the Women's Congress [Association for the Advancement of Women] 1880-1881

Reel 6,  
Item 47 Maria Mitchell Notebook on the Women's Congress 1876. Questionnaire and Statistics on Women in Science 1876

Reel 6,  
Item 48 Maria Mitchell Private notes and journal, includes clippings 1873

Reel 6,  
Item 48 Accounts of travel to Europe

Reel 6,  
Item 49 Maria Mitchell European notes, 1873

Reel 6,  
Item 50 Maria Mitchell Ideas on science and its popularization, 1874

Reel 6,  
Item 50 [Commonplace book], 1871-1880

Reel 6,  
Item 50 On government and patronage

Reel 6,  
Item 50 On English gentlemen

Reel 6,  
Item 50 On music

Reel 6,  
Item 50 On transit of Venus, 1874

Reel 6,  
Item 50 On Women's Congress, 1875-1876

Reel 6, Item 50 Life in the college, 1875

Reel 6, Item 50 Visit of Don Pedro, 1876

Reel 6, Item 50 Diary, 1878-1880

Reel 6, Item 51 Maria Mitchell Clippings on Women's Congress in an old computations book, 1865

Reel 6, Item 52 Genealogy of the Mitchell Family, Phebe Mitchell [1864] [Chase, Joseph, A book of genealogy, 1815, copied by Phebe Mitchell, 1844]

Reel 6, Item 52 List of Shares sold for social library

Reel 6, Item 53 Scraps to be saved about Jupiter, etc.

Reel 6, Item 54 Lectures on Saturn, Jupiter, Color of Stars, Women's Labor

Reel 6, Item 55 Book of clippings, engravings

Reel 6, Item 55 Obituaries of Edward Everett

Reel 6, Item 55 Maria Mitchell at Vassar

Reel 6, Item 55 Accounts of Life at Vassar

Reel 6, Item 55 Obituaries and Accounts of the activities of William and Maria Mitchell

Reel 7, Item 56 Letters from Maria Mitchell's students and famous people like John G. Whittier, John D. Rockefeller

Reel 7, Item 56 [Letters to Maria Mitchell], 1886

Reel 7, Item 57 Scraps from newspapers, not very important

Reel 7, Item 58 Reminiscences of the Herschels

Reel 7, Item 58 Lectures by Maria Mitchell

Reel 7, Item 59 Letters and Scraps -- some of them are very valuable

Reel 7, Item 59 Letters of Introduction from George Bond to famous European astronomers, 1865

Reel 7, Item 59 Letters of famous astronomers to Maria Mitchell

Reel 7, Item 59 Letters from famous women, such as Dorothea Dix, Julia Ward Howe, Frances Willard - to Maria Mitchell

Reel 7, Item 60 Maria Mitchell Printed Papers, articles in magazines and newspapers by Maria Mitchell

Reel 7, Item 61 Maria Mitchell Diary of trip to Europe (Book Copy) 1857-1858

Reel 7, Maria Mitchell Diary account of a western trip, 1857, includes voyages on the Mississippi and travels through the south. Copied by William Mitchell

Item 62

Reel 7, Lectures on Jupiter; on scientists and the popularization of science, on time [parts very faint]

Item 63

Reel 7, William Mitchell Kendall Autobiography and journal (European trip, 1881)

Item 65

Reel 8, Phebe Mitchell Kendall Diaries

Item 66

Reel 8, Maria Mitchell Lecture on the moon

Item 67

Reel 8, Scrapbook containing letters to Maria Mitchell, 1870-1875

Item 68

Reel 8, Maria Mitchell Astronomical story

Item 69

Reel 8, William Mitchell Lecture on meteorology

Item 69a

Reel 8, Report on a visitation to the Harvard Observatory

Item 69a

Reel 8, Maria Mitchell Letters [1 volume]

Item 69b

Reel 9, Maria Mitchell [actually Phebe Kendall] Diary in Europe, Part I [Part II is in Reel 8, item 66.]

Item 69c

Reel 9, Maria Mitchell Travel notes [1 volume]

Reel 9, Nantucket Athenaeum Library, Item 1 - Maria Mitchell, Weather Observations, 1846-1849, 1854-1856

Reel 9, Nantucket Athenaeum Library, Item 2 - Maria Mitchell, Weather Observations, 1850-1853

Reel 9, Nantucket Athenaeum Library, Item 3 - Maria Mitchell, Weather Observations, 1854-1856

Reel 9, Nantucket Athenaeum Library, Item 4 - Letter from Robley Dunglison to Nantucket Athenaeum, 1846

Reel 9, Nantucket Athenaeum Library, Item 5 - Letter from Maria Mitchell to officers of Nantucket Athenaeum, undated

## SERIES X. GLASS PLATE NEGATIVES, 1871-1890

Boxes Prints of select negatives used in the Vassar College Library exhibition "Seeing the Sun: Maria 18-19 Mitchell's Observations, 1868-1888," matted, 2016

Neg. Box Observed by Mitchell and Braislin, 1871 Nov 25

1

Neg. Box Observed by Mitchell and Lupton, 1872 Apr 19

31

Neg. Box Observed by Foster and Lupton, 1872 Apr 27

31

Notes: *"Duplicate."*

Neg. Box Observed by Lupton and Foster, 1872 Apr 27

31

Neg. Box Observed by [unknown], 1872 May 3

31

Neg. Box 31 Observed by [unknown], 1872 May 7

Neg. Box 31 Observed by [unknown], 1872 May 8

Neg. Box 31 Observed by [unknown], 1872 May 10

Neg. Box 31 Observed by [unknown], 1872 May 21

Neg. Box 31 Observed by [unknown], 1872 Jun 6

Neg. Box 31 Sunspots, observed by "Mr. Mic" (Maria Mitchell), 1872 Oct 21

*Notes: "Tolerable "*

Neg. Box 31 Sunspots, observed by Lupton, 1872 Nov 1

*Notes: "Pretty good. Three spots visible"*

Neg. Box 31 Sunspots, observed by [unknown], 1872 Nov 2

*Notes: "Tolerable "*

Neg. Box 29 Sunspots, observed by Lupton and Perry, 1872 Nov 7

*Notes: "Tolerable. Negative injured. A great number of spots. Thirty at least. Prints from this were taken"*

Neg. Box 3 Sunspots, observed by Mitchell and Perry, 1872 Nov 9 **[envelope only]**

*Notes: "Sun. A string of small spots"*

Neg. Box 29 Sunspots, observed by Mitchell and Perry, 1872 Nov 9

*Notes: "Many spots. A curious triple spot. Duplicate."*

Neg. Box 29 Sunspots, observed by Lupton and Perry, 1872 Nov 15

*Notes: "Tolerable. Large spot on one side."*

Neg. Box 29 Sunspots, observed by Lupton and Perry, 1872 Nov 21

*Notes: "Good. Outline a little marred. Many spots"*

Neg. Box 29 Sunspots, observed by Lupton and Perry, 1872 Nov 21

*Notes: "Good. A line of spots across the sun. Duplicate of this copy was used in making prints"*

Neg. Box 29 Sunspots, observed by Lupton and Perry, 1872 Nov 27

*Notes: "Poor impression. Three groups of spots."*

Neg. Box 29 Sunspots, observed by Lupton and Perry, 1872 Nov 27

*Notes: "Tolerable "*

Neg. Box 29 Sunspots, observed by Lupton and Noble, 1872 Dec 7

*Notes: "Tolerable. Several large spots with clearly defined penumbra. One double spot."*

Neg. Box 29 Sunspots, observed by Lupton and Perry, 1872 Dec 10  
*Notes: "Poor impression. Three large spots. Two of these [illegible]."*

Neg. Box 28 Sunspots, observed by Lupton and Perry, 1873 Jan 9  
*Notes: "Poor. Chemicals not good."*

Neg. Box 3 Sunspots, observed by Lupton and Perry, 1873 Jan 14  
*Notes: "Good. 2 large spots (one double) coming on, a small one well towards the center and some small spots going off."*

Neg. Box 28 Sunspots, observed by Lupton and Perry, 1873 Feb 13 11:55 AM  
*Notes: "Tolerable. 1 large group of spots near center and a large spot separate."*

Neg. Box 31 Sunspots, observed by Lupton and Perry, 1873 Feb 14  
*Notes: "Impression too faint. Large group of spots"*

Neg. Box 31 Sunspots, observed by Lupton and Perry, 1873 Feb 20  
*Notes: "Tolerable. Many spots scattered over the surface"*

Neg. Box 31 Sunspots, observed by Lupton and Perry, 1873 Feb 22 12:48 PM  
*Notes: "Tolerable. Spots scattered very much over surface."*

Neg. Box 31 Sunspots, observed by Lupton and Perry, 1873 Feb 25  
*Notes: "Tolerable. Group of spots coming on. Two small ones in center and some going off."*

Neg. Box 31 Sunspots, observed by Lupton and Perry, 1873 Feb 26 12:35 PM  
*Notes: "Poor impression. Group of spots coming on."*

Neg. Box 28 Sunspots, observed by Lupton and Perry, 1873 Mar 12  
*Notes: "Pretty good. Duplicate."*

Neg. Box 28 Sunspots, observed by Lupton and Perry, 1873 Mar 13  
*Notes: "Good. Negative afterward infused. Large group of spots"*

Neg. Box 28 Sunspots, observed by Lupton and Perry, 1873 Mar 14  
*Notes: "Poor. Shaken. Large group."*

Neg. Box 28 Sunspots, observed by Lupton and Perry, 1873 Mar 17  
*Notes: "Plate scratched."*

Neg. Box 28 Sunspots, observed by Lupton and Perry, 1873 Mar 19 12:31 PM  
*Notes: "Too Dark. Angle 9°"*

Neg. Box 31 Sunspots, observed by Lupton and Perry, 1873 Mar 27 11:51 AM  
*Notes: "Pretty good. Many spots. Scattered."*

Neg. Box 31 Sunspots, observed by Lupton and Perry, 1873 Apr 1  
*Notes: "Pretty good "*

Neg. Box 31 Sunspots, observed by Lupton and Arnold, 1873 Apr 23  
*Notes: "Tolerable "*

Neg. Box 28 Sunspots, observed by Lupton and Perry, 1873 Apr 29  
*Notes: "6. Many spots"*

Neg. Box 34 Sunspots, observed by Barton and Gardner, 1873 Apr 30  
*Notes: "Same groups. Picture well defined but incomplete – taken on wrong side of plate"*

Neg. Box 28 Sunspots, observed by Lupton and Perry, 1873 May 1 11:05 AM  
*Notes: "5. One spot is surrounded by a semi-circle of smaller spots."*

Neg. Box 31 Sunspots, observed by Lupton and Perry, 1873 May 5 12:15 PM  
*Notes: "4. Few spots"*

Neg. Box 31 Sunspots, observed by Perry and Arnold, 1873 May 29  
*Notes: "4"*

Neg. Box 28 Sunspots, observed by Lupton and Arnold, 1873 Jun 18  
*Notes: "One small spot coming on."*

Neg. Box 31 Sunspots, observed by Lupton and Arnold, 1873 Jun 19  
*Notes: "No additional spots, very small in center"*

Neg. Box 28 Sunspots, observed by Lupton and Stow, 1873 Jun 20  
*Notes: "4. Large spots coming on"*

Neg. Box 28 Sunspots, observed by Lupton and Marsh, 1873 Jun 21  
*Notes: "4. Duplicate poor."*

Neg. Box 28 Sunspots, observed by Lupton and Marsh, 1873 Jun 21  
*Notes: "4. Large spots coming on"*

Neg. Box 29 Sunspots, observed by Arnold and Stow, 1873 Oct  
*Notes: "3. Very few spots"*

Neg. Box 3 Sunspots, observed by Arnold and Stow, 1873 Oct 2 12:06 PM  
*Notes: "5. Focus poor; spots few."*

Neg. Box 3 Sunspots, observed by Arnold and Stow, 1873 Oct 10 12:07 PM  
*Notes: "4. Spots few."*

Neg. Box 29 Sunspots, observed by Stow and Arnold, 1873 Oct 15 11:45 AM

*Notes: "1. Spots few."*

Neg. Box 29 Sunspots, observed by Arnold and Stow, 1873 Oct 16 12:01 PM

*Notes: "5. Spots small. Few, circular."*

Neg. Box 29 Sunspots, observed by Arnold and Stow, 1873 Oct 17 11:02 AM

*Notes: "5. Spots few; faculae surrounding."*

Neg. Box 29 Sunspots, observed by Arnold and Stow, 1873 Oct 22 12:12 PM

*Notes: "2. Spots few; faculae coming on and going off."*

Neg. Box 29 Sunspots, observed by Arnold and Stow, 1873 Oct 23

*Notes: "3. Plate scratched; spots few."*

Neg. Box 29 Sunspots, observed by Arnold and Stow, 1873 Oct 25 12:25 PM

*Notes: "4. Suspicious spot at top of plate which, as marked, reverses the sun. Two other pictures were taken on this day which are preserved on account of said spot. Spots few."*

Neg. Box 29 Sunspots, observed by Arnold and Stow, 1873 Oct 25 12:15 PM

*Notes: "3. Duplicate. Preserved on account of small spot on top of the disc, (really in southern part of sun). Spots few."*

Neg. Box 29 Sunspots, observed by Arnold and Stow, 1873 Oct 25 1:02 PM

*Notes: "3. Poor focus. This is the 3d. Picture of this date. It was taken on account of a suspicious spot which appeared in the other two. Spots few."*

Neg. Box 29 Sunspots, observed by Arnold and Stow, 1873 Oct 29 12:12 PM

*Notes: "4. Spots small, few, circular; faculae"*

Neg. Box 3 Sunspots, observed by Arnold and Stow, 1873 Nov 5 12:26 PM

*Notes: "6°. 7. Spots small faculae."*

Neg. Box 3 Sunspots, observed by Arnold and Stow, 1873 Nov 6 12:00 PM

*Notes: "3. Spots few; faculae."*

Neg. Box 36.27 Sunspots, observed by Arnold and Stow, 1873 Nov 10 12:17 PM

*Notes: "6°. Many small spots, faculae."*

Neg. Box 25 Sunspots, observed by Arnold and Stow, 1873 Nov 11 12:08 PM

*Notes: "Angle of daily motion, 6°. Several spots to right of center. One single spot and one pair to left."*

Neg. Box 25 Sunspots, observed by Arnold and Stow, 1873 Nov 14 11:55 AM

*Notes: "Angle of Motion 2°. Several small spots, faculae."*

Neg. Box 29 Sunspots, observed by Arnold and Stow, 1873 Nov 22 12:16 PM

*Notes: "8. Spots few; faculae."*

Neg. Box 29 Sunspots, observed by Arnold and Stow, 1873 Nov 25 [12:05 PM?]  
*Notes: "8. Spots few; faint faculae."*

Neg. Box 29 Sunspots, observed by Stow and Arnold, 1873 Nov 26 12:20 PM  
*Notes: "Two small spots on west limb, one large one just within the east limb."*

Neg. Box 29 Sunspots, observed by Stow and Arnold, 1873 Nov 29 12:14 PM  
*Notes: "Same spots of Nov. 26, also large spot on east limb. Faculae."*

Neg. Box 3 Sunspots, observed by Arnold and Stow, 1873 Dec 6 [2 plates]  
*Notes: "Spots good, two single ones. Group near center."*

Neg. Box 3 Sunspots, observed by Arnold and Stow, 1873 Dec 15  
*Notes: "One group of small spots"*

Neg. Box 36.3 Sunspots, observed by [unknown], circa 1874

Neg. Box 27 Sunspots, observed by Arnold and Stow, 1874 Jan 10  
*Notes: "Two small groups, one very small single spot."*

Neg. Box 27 Sunspots, observed by Arnold and Stow, 1874 Jan 19 12:07 PM  
*Notes: "Angle of Diurnal motion 1°. Several small spots near eastern limb. Three small ones near western"*

Neg. Box 27 Sunspots, observed by Arnold and Stow, 1874 Jan 20 12:06 PM  
*Notes: "Angle of Diurnal motion 1°. One good-sized spot, two smaller ones"*

Neg. Box 27 Sunspots, observed by Arnold and Stow, 1874 Jan 24 12:41 PM  
*Notes: "Pair of spots just within eastern limb, one approaching the center, one near western limb"*

Neg. Box 27 Sunspots, observed by Arnold and Stow, 1874 Jan 26 12:19 PM  
*Notes: "Angle of diurnal motion 2°. Five row of spots."*

Neg. Box 27 Sunspots, observed by Arnold and Stow, 1874 Jan 29 12:31 PM  
*Notes: "A supplementary to this shows the missing part. In this are five good-sized spots, one of which or rather the pair, was seen thro' smoked glass by the naked eye."*

Neg. Box 27 Sunspots, observed by [unknown], 1874 Jan 29  
*Notes: "Supplementary to another picture taken on same day a part of which was accidentally cut off by the failure of the acid to sensitize the whole plate. The section given in this contains the part lacking in the other and shows two small spots just within the eastern limb."*

Neg. Box 27 Sunspots, observed by Stow and Arnold, 1874 Jan 30 12:12 PM  
*Notes: "Angle 4°"*

Neg. Box 27 Sunspots, observed by Arnold and Stow, 1874 Feb 5 12:50 PM  
*Notes: "Two near western limb separated by a diameter from two near eastern limb"*

Neg. Box 27 Sunspots, observed by Arnold and Stow, 1874 Feb 10 12:48 PM  
*Notes: "Angle of Motion 4°. One spot near center, two small ones coming on."*

Neg. Box 28 Sunspots, observed by Arnold and Stow, 1874 Feb 12 12:23 PM  
*Notes: "angle. 4° Three small spots, the same as those of yesterday"*

Neg. Box 28 Sunspots, observed by Arnold and Stow, 1874 Feb 14 12:16 PM  
*Notes: "Six small spots nearly in the horizontal diameter (the western spot of the pair should appear as two.)"*

Neg. Box 28 Sunspots, observed by Arnold and Stow, 1874 Feb 17 12:15 PM  
*Notes: "One large spot coming on, two very small near the center; faculae."*

Neg. Box 28 Sunspots, observed by Stow and Arnold, 1874 Feb 18 [12:31 PM?]  
*Notes: "Two small spots have disappeared; one small new spot appeared near center, and some larger is just coming on. Faculae."*

Neg. Box 28 Sunspots, observed by Arnold and Stow, 1874 Feb 20 12:17 PM  
*Notes: "Several small spots; faculae."*

Neg. Box 28 Sunspots, observed by Arnold and "Maggie", 1874 Feb 26  
*Notes: "One spot just coming on a group further on, near this a circular spot, another circular spot on the other side of the center."*

Neg. Box 28 Sunspots, observed by Arnold and Stow, 1874 Feb 28  
*Notes: "One large spot with palm-shaped umbra; several small ones."*

Neg. Box 15 Sunspots, observed by Arnold and Stow, 1874 Mar 2 12:18 PM  
*Notes: "Decided changes since the last picture was taken (Feb. 28). One group of small ones, a pair quite large. The small ones on a line from the pair to the western limb. The large pair seems to have moved measurably [unusually?] since Feb. 28."*

Neg. Box 27 Sunspots, observed by Stow and Arnold, 1874 Mar 2  
*Notes: "Duplicate. Two small groups above and west of center"*

Neg. Box 10 Sunspots, observed by Arnold and Stow, 1874 Mar 3  
*Notes: "Three spots near western limb, two just within eastern limb, is this not an unusual degree of change of position in the former since yesterday?"*

Neg. Box 15 Sunspots, observed by Arnold and Stow, 1874 Mar 4 12:02 PM  
*Notes: "One large group going off two small groups, one below center, one coming on, also two single spots near eastern limb which are not visible. Picture taken 11 minutes after."*

Neg. Box 27 Sunspots, observed by Arnold and Stow, 1874 Mar 4 [12:13 PM?]  
*Notes: "Compare this with one taken 11 minutes before, Two spots visible in the latter appeared in the interval, otherwise there is no change."*

Neg. Box 35 Sunspots, observed by Arnold and Stow, 1874 Mar 5 12:11 PM  
*Notes: "Spots much the same as yesterday but showing some slight changes. Large group still on, small group coming on, faculae."*

Neg. Box 35 Sunspots, observed by Stow and Fisher, 1874 Mar 14 12:16 PM  
*Notes: "Duplicate. Spots large"*

Neg. Box 35 Sunspots, observed by Stow and Fisher, 1874 Mar 14 12:47 PM  
*Notes: "Spots very large. Nearly in line of horizontal axis. Prof. Mitchell"*

Neg. Box 27 Sunspots, observed by Stow and Cutter, 1874 Mar 21 12:44 PM  
*Notes: "One spot just going off, one group near center; faculae."*

Neg. Box 27 Sunspots, observed by Arnold and Fisher, 1874 Mar 25 12:15 PM  
*Notes: "Pair of small spots near center; ditto near western limb; small spot near eastern limb; faculae."*

Neg. Box 28 Sunspots, observed by Arnold and Cutter, 1874 Mar 27 12:27 PM  
*Notes: "Total change of spots since Mar. 25. one group, two single spots. Faculae."*

Neg. Box 27 Sunspots, observed by Arnold and Gardner, 1874 Mar 28  
*Notes: "Changes from March 27 to March 28 are very peculiar, Pair of spots near western limb; single spot above center."*

Neg. Box 28 Sunspots, observed by Arnold and Cutter, 1874 Mar 30 12:29 PM  
*Notes: "Very large spot (in group) just within eastern limb, group near western limb, single well defined spot to the right above center; faculae. (The printed pictures marked 1 to 8 follow this negative)? Two of these negatives, (--) have been returned from --. But some half dozen negatives following this date have not been found."*

Neg. Box 7 Sunspots, observed by Arnold and Gardner, 1874 Apr 2 1:20 PM?]  
*Notes: "Spots not well defined; good sized pair coming on (i.e.. East of center);"*

Neg. Box 7 Sunspots, observed by Arnold and Gardner, 1874 Apr 3 [1:23 PM?]  
*Notes: "Spots the same as yesterday; not well defined; faculae."*

Neg. Box 27 Sunspots, observed by Arnold and Stow, 1874 Apr 18 12:37 PM  
*Notes: "Small pair above center; faculae."*

Neg. Box 27 Sunspots, observed by Stow and Arnold, 1874 Apr 27 12:31 PM  
*Notes: "One large spot coming on. Faculae near spot. Small spot above and right of center."*

Neg. Box 27 Sunspots, observed by Arnold and Stow, 1874 Apr 30 2:16 PM  
*Notes: "Poorly defined; small group to the right, single spot to left of center."*

Neg. Box 9 Sunspots, observed by Arnold and Stow, 1874 May 1 12:00 PM

*Notes: "Pair of very small spots just within eastern limb. Single spot east of center, group of small ones west of center, definition very poor."*

Neg. Box 9 Sunspots, observed by Barton and Gardner, 1874 May 3

*Notes: "Same groups"*

Neg. Box 9 Sunspots, observed by Arnold and [unknown], 1874 May 6 11:23 AM [plate broken]

*Notes: "3 groups; one near eastern limb, one near center, one near western limb."*

Neg. Box 7 Sunspots, observed by Arnold and Stow, 1874 May 7

*Notes: "Triplicate. Four groups. Spots large and numerous."*

Neg. Box 9 Sunspots, observed by Arnold and Stow, 1874 May 7

*Notes: "Triplicate. Four groups. Spots large and numerous."*

Neg. Box 9 Sunspots, observed by Arnold and Stow, 1874 May 9 2:17 PM

*Notes: "Two fine groups east of center; two pairs near western limb."*

Neg. Box 7 Sunspots, observed by Arnold and Gardner, 1874 May 10 12:43 PM

*Notes: "Two groups nearing the center; spots also near western limb one group surrounded by conspicuous faculae; faculae also near eastern limb. May 11th and 12th, no spots visible - plates destroyed each."*

Neg. Box 7 Sunspots, observed by Stow and Arnold, 1874 May 13 12:32 PM

*Notes: "one large group near the center and two spots to the right of the group. 'Mottled surface' very strongly marked."*

Neg. Box 7 Sunspots, observed by Arnold and Cushing, 1874 May 14 12:17 PM

*Notes: "Large group east of and below center; pair of spots above and to the right of group."*

Neg. Box 7 Sunspots, observed by Arnold and Cushing, 1874 May 15 12:12 PM

*Notes: "Large group near western limb; pair of very small spots to the right and above the group; faculae"*

Neg. Box 9 Sunspots, observed by Arnold and Cushing, 1874 May 17

*Notes: "Small spot coming on, group going off (this has been visible since May 7)"*

Neg. Box 27 Sunspots, observed by Arnold and Stow, 1874 May 19 12:43 PM

*Notes: "Two groups east of center, single spot near eastern limb, another near western limb. Spots all very small; faculae."*

Neg. Box 27 Sunspots, observed by Stow and Arnold, 1874 May 21 1:59 PM?]

*Notes: "One group east of center and below it"*

Neg. Box 9 Sunspots, observed by Stow and Cushing, 1874 May 23 1:28 PM

*Notes: "Group to the right and below the center"*

Neg. Box 9 Sunspots, observed by Arnold and Cushing, 1874 May 27 12:45 PM

Notes: "Good sized group near eastern limb (duplicate, preserved on account of remarkable distinctness of faculae; the "mottled surface" can also be well distinguished)"

Neg. Box 9 Sunspots, observed by Stow and Arnold, 1874 May 27 12:29 PM

Notes: "Good-sized group near eastern limb, extensive faculae."

Neg. Box 9 Sunspots, observed by Arnold and Cushing, 1874 May 28 12:23 PM

Notes: "Good sized group above and to the left of the center; faculae"

Neg. Box 9 Sunspots, observed by Cushing and Stow, 1874 May 29 12:15 PM

Notes: "One good-sized group above he center and a little to the left"

Neg. Box 27 Sunspots, observed by Arnold and Cushing, 1874 May 30 12:25 PM

Notes: "Same group as yesterday (good sized and above the center). Faculae."

Neg. Box 9 Sunspots, observed by Stow and Cushing, 1874 Jun 1 12:20 PM

Notes: "One group to the right of he center, single spot near eastern limb. Spots good-sized."

Neg. Box 9 Sunspots, observed by Arnold and Cushing, 1874 Jun 8 12:20 PM

Notes: "Three small spots east of the center, two pairs of small spots west of center (one pair very near western limb) faculae"

Neg. Box 9 Sunspots, observed by Arnold and Cushing, 1874 Jun 9 12:27 PM

Notes: "Duplicate not valuable; the other picture is not so good chemically but defines the spots better"

Neg. Box 27 Sunspots, observed by Arnold and Cushing, 1874 Jun 10 12:19 PM

Notes: "Two groups of small spots near the center; faculae. Marked change since June 1"

Neg. Box 27 Sunspots, observed by Cushing and Stow, 1874 Jun 13 12:40 PM

Notes: "Spot just appearing within eastern limb, four small spots west of center."

Neg. Box 27 Sunspots, observed by Stow and Cushing, 1874 Jun 15 12:25 PM

Notes: "Large group, with faculae, near eastern limb; three small spots west of center; faculae near western limb."

Neg. Box 36.4 Sunspots, observed by Stow and Barton, 1874 Jun 18 1:12 PM

Notes: "Two good-sized groups. Faculae."

Neg. Box 9 Sunspots, observed by Arnold and Gardner, 1874 Jun 21 12:48 PM

Notes: "Same group, faculae"

Neg. Box 36.15 Sunspots, observed by Arnold and Lupton, 1874 Jun 23 11:36 AM

Notes: "Same large group, faculae"

Neg. Box 35 Sunspots, observed by Arnold and Gardner, 1874 Sep 26 12:19 PM

Notes: "One large spot."

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 3 12:02 PM  
*Notes: "Large group of spots"*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 3 12:01 PM  
*Notes: "Large group of spots"*

Neg. Box 35 Sunspots, observed by Gardner and Metcalf, 1874 Oct 4  
*Notes: "A regular motion of the group of spots. (there are some very faint notes concerning Oct. 5 under this note that are very faint and hard to read. Something about groups appearing near the edge, etc.)"*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 5 12:01 PM  
*Notes: "Same large group"*

Neg. Box 3 Sunspots, observed by Arnold and Stow, 1874 Oct 9 12:05 PM  
*Notes: "3°. 5. Poor focus; spots few."*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 9 12:30 PM  
*Notes: "Large group with faculae going off, two small groups"*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 12 12:45 PM  
*Notes: "Two spots, going off."*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 15 12:05 PM  
*Notes: "Small group, spot coming on"*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 16 12:15 PM  
*Notes: "Two small groups"*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 17 [2:15 PM?]   
*Notes: "Same spots with another to the east and lower."*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 19  
*Notes: "Same spots as on the 17th picture imperfect."*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 20  
*Notes: "Same spots with another near the center not visible yesterday."*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 22  
*Notes: "The spot which appeared near center on [Oct 20] has disappeared and also the most westerly of the other three."*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 23  
*Notes: "Same five spots – good picture."*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 24

Notes: "Only one spot, another having disappeared since yesterday."

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 27

Notes: "Small spot with faculae near eastern limb and another near western. Faculae of eastern limb well shown."

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Oct 31

Notes: "Two large spots just within eastern limb."

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Nov 10

Notes: "Same large group near western limb – five or six spots."

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Nov 12

Notes: "One small spot near eastern limb."

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Nov 14

Notes: "Two groups of very small spots"

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Nov 16

Notes: "Same two groups of small spots"

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Nov 19

Notes: "One large spot and small group poorly defined."

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Nov 23

Notes: "One large and one small spot. Obstruction in tube."

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Nov 26

Notes: "Same spots and same trouble in tube."

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Dec 4

Notes: "Two very small spots."

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Dec 8

Notes: "Several very small spots. Not a good picture."

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Dec 10

Notes: "Group of three large spots coming on. (Poor Picture)."

Neg. Box 15 Sunspots, observed by Barton and Gardner, 1874 Dec 11

Notes: "Same group of three."

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1874 Dec 12

Notes: "Same three spots – the middle one double and the foremost one nearly surrounded by small ones."

Neg. Box 34 Sunspots, observed by Barton and Gardner, 1874 Dec 15

Notes: "Same group with marked change since [Dec 12]"

Neg. Box 19 Sunspots, observed by Barton and Gardner, 1874 Dec 16

Notes: "Same group as yesterday."

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Jan 24

Notes: "Two spots western limb; (poor chemicals)"

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Feb 1

Notes: "Two spots high on eastern limb. good picture."

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Feb 4

Notes: "Two small spots."

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Feb 5

Notes: "Same small group good picture. - Feb 10th no spots (negative destroyed)."

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Feb 18

Notes: "A large spot coming on high just within the edge."

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Feb 21

Notes: "Duplicate—not quite as good as the other."

Neg. Box 36.14 Sunspots, observed by Barton and Gardner, 1875 Feb 21

Notes: "Same large spot followed by very small one and below another spot of good size followed by small group. Good picture. Penumbra well defined."

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Feb 22

Notes: "Same spots picture chemically very poor."

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Feb 23

Notes: "Same two large spots. Not very good definition."

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Feb 26

Notes: "Same spots with some changes. The largest spot now has a very small one below. The other is divided into two and is followed by one distinct spot in place of the confused group. Two spots coming on—one of them near the center."

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Feb 26

Notes: "Duplicate—chemically poorer but definition of spots better."

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Mar 2

Notes: "The two small spots past center."

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Mar 4

Notes: "Small spots...[illegible]"

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Mar 6  
*Notes: "Same two spots followed by small group below."*

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Mar 8  
*Notes: "Two pairs of spots within the western limb."*

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Mar 8  
*Notes: "Duplicate. Two groups within western limb."*

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Mar 10  
*Notes: "Spot coming on surrounded by faculae."*

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Mar 11  
*Notes: "Same spot followed by another"*

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Mar 12  
*Notes: "Two spots within eastern limb."*

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Mar 17  
*Notes: "Two spots near the center with a small group below. Large spot on eastern edge."*

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Mar 18  
*Notes: "Large spot within eastern limb. Small ones west of center."*

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Mar 19  
*Notes: "Same large spot. Poor definition."*

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Mar 22  
*Notes: "Same large spot. Group of the three small ones within western limb."*

Neg. Box 7 Sunspots, observed by Barton and Gardner, 1875 Mar 23  
*Notes: "Same large spot and small group."*

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Mar 27  
*Notes: "Same large spot."*

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Mar 29  
*Notes: "The large spot just within western limb. Small group near center."*

Neg. Box 8 Sunspots, observed by Gardner and Barton, 1875 Mar 30  
*Notes: "Same small group."*

Neg. Box 8 Sunspots, observed by Gardner and Scott, 1875 Mar 31  
*Notes: "Small group near center."*

Neg. Box 8 Sunspots, observed by Gardner and Scott, 1875 Apr 1

*Notes: "Same small group with spot coming on"*

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Apr 5

*Notes: "Very small group near center."*

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Apr 10

*Notes: "Two large spots coming on. Two small ones near center."*

Neg. Box 34 Sunspots, observed by Barton and Gardner, 1875 Apr 13

*Notes: "Same three spots."*

Neg. Box 10 Sunspots, observed by Barton and Gardner, 1875 Apr 17

*Notes: "Two large spots."*

Neg. Box 10 Sunspots, observed by Barton and Gardner, 1875 Apr 20

*Notes: "Small group going off. (Silver bath not good)."*

Neg. Box 10 Sunspots, observed by Barton and Gardner, 1875 Apr 21

*Notes: "Small group (3) going off—small spot coming on."*

Neg. Box 10 Sunspots, observed by Gardner and Barton, 1875 Apr 23

Neg. Box 10 Sunspots, observed by Barton and Woodward, 1875 Apr 29

*Notes: "One large group and two small ones (good picture)"*

Neg. Box 27 Sunspots, observed by Barton and Gardner, 1875 May 2

*Notes: "Same large group. Chemically not good."*

Neg. Box 10 Sunspots, observed by Barton and Gardner, 1875 Jun 2

*Notes: "Two spots coming on."*

Neg. Box 8 Sunspots, observed by Barton and Gardner, 1875 Jun 4

*Notes: "Two spots on the eastern limb."*

Neg. Box 10 Sunspots, observed by Gardner and Barton, 1875 Jun 5

*Notes: "The same spots moving regularly across the disk."*

Neg. Box 10 Sunspots, observed by Barton and Gardner, 1875 Jun 7

*Notes: "One large spot followed by a small one on the western limb."*

Neg. Box 10 Sunspots, observed by Barton and Gardner, 1875 Jun 10

*Notes: "Spot going off."*

Neg. Box Sunspots, observed by Barton and Gardner, 1875 Jun 11

*Notes: "Spot on the very edge - June 12. No spots (neg. destroyed)"*

Neg. Box 10 Sunspots, observed by Gardner and Barton, 1875 Jun 16

*Notes: "Two spots on Eastern limb"*

Neg. Box 35 Sunspots, observed by Barton and Gardner, 1875 Jun 17  
*Notes: "The two spots moving regularly."*

Neg. Box 9 Sunspots, observed by Stow and Barton, 1875 Jun 18 [1:12 PM?]  
*Notes: "Two good sized groups. Faculae"*

Neg. Box 10 Sunspots, observed by Gardner and Metcalf, 1875 Sep 29  
*Notes: "A Group of spots near the center"*

Neg. Box 35 Sunspots, observed by Gardner and Metcalf, 1875 Sep 30  
*Notes: "A regular motion of the spots."*

Neg. Box 35 Sunspots, observed by Gardner and Metcalf, 1875 Oct 2  
*Notes: "A regular motion of the group."*

Neg. Box 3 Sunspots, observed by Arnold and Stow, 1875 Oct 11 12:02 PM  
*Notes: "3°. 5. Spots few; faculae going off."*

Neg. Box 17 Sunspots, observed by Gardner and Metcalf, 1875 Oct 20  
*Notes: "Two elongated spots followed by two very small ones. - Oct 21 The two elongated spots appear to be – into one and the two small spots following not seen."*

Neg. Box 25 Sunspots, observed by Gardner and Metcalf, 1875 Oct 22  
*Notes: "A regular motion of the spot across the disk."*

Neg. Box 8 Sunspots, observed by Gardner and Metcalf, 1875 Oct 28  
*Notes: "This is a poor negative, but the group is large—One of the two spots has separated into two smaller ones. - [Oct 29-30] Clouds prevented observations and photographing. - Oct. 31 There are but two spots in the group. - Nov. 1. Clouds prevented observations and photographing."*

Neg. Box 8 Sunspots, observed by Gardner and Metcalf, 1875 Nov 2  
*Notes: "Two spots with penumbra are seen. The motion appears regular. - Nov. 3 The two spots appear to have united A small spot near the center of the disk was observed which was not seen before. - Nov. 4. The large spot very nearly off; surrounded by penumbra and the faculae again visible. The small spot appears to have separated into two. - Nov. [5-6, 8-9, 12-13]. No spots (neg. destroyed)"*

Neg. Box 8 Sunspots, observed by Gardner and Metcalf, 1875 Nov 18  
*Notes: "Two spots with a very small group between"*

Neg. Box 10 Sunspots, observed by Gardner and Metcalf, 1875 Nov 22  
*Notes: "A group on the western limb, a group on the Eastern limb followed by a small spot and two small spots near the center."*

Neg. Box 10 Sunspots, observed by Gardner and Metcalf, 1875 Nov 22  
*Notes: "Duplicate"*

Neg. Box 10 Sunspots, observed by Gardner and Metcalf, 1875 Nov 24  
*Notes: "The motion of the spots appears regular."*

Neg. Box 10 Sunspots, observed by Gardner and Metcalf, 1875 Nov 25  
*Notes: "The motion of the spots appears regular."*

Neg. Box 10 Sunspots, observed by Gardner and Metcalf, 1875 Nov 27  
*Notes: "But one large spot on the western limb. The two small spots near the center are not visible."*

Neg. Box 35 Sunspots, observed by Gardner and Metcalf, 1875 Nov 29  
*Notes: "Spot going off surrounded by faculae. From Nov. 29 to Dec. 12 no spots were visible. Observations were interrupted by clouds, to a very great degree, but when an opening in the clouds allowed observations, the sun's disk appeared free from spots. On Dec. 12 a very small spot surrounded by faculae was observed coming on but, after that date, could not be found. Dec. 14. A large spot was observed, with the telescope, on the very edge coming on."*

Neg. Box 8 Sunspots, observed by Gardner and Wylie, 1875 Dec 17  
*Notes: ""The spot first observed on the edge Dec. 14 seems to have divided into two. The penumbra and faculae are very marked. A group of spots near the center which has not appeared before is observed." "Dec. 21 1875. A small group has appeared on the eastern limb. The two groups seen on Dec. 17 appear to be moving regularly across the disk.""*

Neg. Box 10 Sunspots, observed by Gardner and Wylie, 1875 Dec 22  
*Notes: "One large group near the center. The two small groups, one on the eastern limb one the western, could not be found."*

Neg. Box 10 Sunspots, observed by Gardner and Wylie, 1875 Dec 23  
*Notes: "The large group moving regularly"*

Neg. Box 10 Sunspots, observed by Gardner and Wylie, 1875 Dec 27  
*Notes: "A small pair of spots on the western limb. From Dec 23 to Dec 27 Cloudy weather prevented photographing. From Dec. 27 to Jan. photographing was interrupted by Cloudy weather and high winds. Whenever an observation was made the sun's disk was free from spots except on Jan 10 when a very small group was seen on the western limb but after that date it could not be found"*

Neg. Box 16 Sunspots, observed by Gardner and Banfield, 1876 Jan 20  
*Notes: "In this photograph a large spot is seen coming on. With the telescope a small spot was seen following the large one. A small group near the center and a small group on the western limb was seen with the telescope. The photograph is very poor."*

Neg. Box 16 Sunspots, observed by Gardner and Metcalf, 1876 Jan 21  
*Notes: ""The motion of the large spot appears regular. The two groups observed with the telescope on Jan 20 appear to move regularly. The large spot is followed by two small ones. Jan 24. The motion appeared regular; but no other change was noticed since Jan. 21.""*

Neg. Box 16 Sunspots, observed by Gardner and Metcalf, 1876 Jan 26  
*Notes: "Two groups on the western limb, one of them near the edge, surrounded by faculae. The group which was seen near the edge on Jan 21 has disappeared. The group observed near the center*

*on that date was now near the edge and the large spot had separated into group of one large one and several small ones. - Jan 30 No spots - Feb. 2 No spots."*

Neg. Box 16 Sunspots, observed by Gardner and Banfield, 1876 Feb 12

*Notes: "A large spot with penumbra and followed by faculae is visible coming on. - Feb. 13 The motion of the spot appears regular - Feb. 16 The spot has divided into a chain of spots and is now near the center."*

Neg. Box 16 Sunspots, observed by Gardner and Metcalf, 1876 Feb 19

*Notes: "Feb. 18 1876, A chain of spots on the western limb. A chain of spots on the western limb. A very poor photograph."*

Neg. Box 16 Sunspots, observed by Gardner and Metcalf, 1876 Feb 22

*Notes: "The last spot of the chain on the very edge."*

Neg. Box 16 Sunspots, observed by Gardner and Metcalf, 1876 Feb 26

*Notes: "Feb. 28. Two small spots coming on. Two small spots on Eastern limb. One very faint and small."*

Neg. Box 16 Sunspots, observed by Gardner and Metcalf, 1876 Mar 9

*Notes: "A small spot coming on."*

Neg. Box 16 Sunspots, observed by Gardner and Metcalf, 1876 May 10

*Notes: "May 6, A spot appeared coming on. Two spots very near followed by two very small ones, too small to be seen on the photograph."*

Neg. Box 16 Sunspots, observed by Gardner and Metcalf, 1876 May 11

*Notes: "The very small spots have disappeared and but one spot is seen instead of the two very near as seen on May 10."*

Neg. Box 16 Sunspots, observed by Gardner and Banfield, 1876 May 13 12:20 PM

*Notes: "A spot on the western limb."*

Neg. Box 16 Sunspots, observed by Gardner and Metcalf, 1876 May 18

*Notes: "A group coming on. Two small groups on the eastern limb and a small group on the western limb above the center."*

Neg. Box 16 Sunspots, observed by Gardner and Metcalf, 1876 May 27

*Notes: "May 26 3 small spots on Eastern limb. Two of the small spots visible on May 26 have disappeared, and the one that is seen with the glass is too small to come into the picture."*

Neg. Box 9 Sunspots, observed by Stow and Barton, 1876 Jun 17 2:10 PM

*Notes: "Two groups; some change since yesterday."*

Neg. Box 34 Sunspots, observed by Gardner and Harrison, 1876 Sep 28

*Notes: "Two large groups of spots coming on, Each group surrounded by spots of very small size, not seen in the photograph."*

Neg. Box 10 Sunspots, observed by Gardner and Harrison, 1876 Sep 29  
*Notes: "One of the groups seen in the photograph of Sept 28 has separated into two."*

Neg. Box 25 Sunspots, observed by Gardner and Harrison, 1876 Oct 2  
*Notes: "Two groups on the western limb."*

Neg. Box 8 Sunspots, observed by Gardner and Harrison, 1876 Oct 3  
*Notes: "The group passing off. - Oct. 9-10 No spots (plates destroyed)"*

Neg. Box 3 Sunspots, observed by Arnold and Stow, 1876 Oct 13  
*Notes: "3. Spots few."*

Neg. Box 16 Sunspots, observed by Gardner and Hazard, 1876 Oct 13 [2:03 PM?]  
*Notes: "A small group of small spots going off."*

Neg. Box 17 Sunspots, observed by Gardner and Hazard, 1876 Oct 18 12:04 PM  
*Notes: "A small spot coming on."*

Neg. Box 10 Sunspots, observed by Gardner and Hazard, 1876 Oct 19 2:15 PM?]  
*Notes: "A group of spots coming on. Only one was visible on Oct. 18, but today, Oct. 19 this is followed by two very small ones. Faculae visible around the group. - Oct. 30th No spots (plate destroyed)."*

Neg. Box 10 Sunspots, observed by Gardner and Hazard, 1876 Oct 30 12:03 PM  
*Notes: "No spots. - Nov 13 A very small spot on eastern limb. - Nov 16. A very [small spot?] moving across the disc and a pair of large spots coming on - Nov 24 These large spots had disappeared and faculae were visible on the western limb, near the edge - Nov 27 No spots - Dec 1, 3, 5 No spots."*

Neg. Box 16 Sunspots, observed by [unknown], 1876 Nov 10  
*Notes: "Duplicate taken at 12.15."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1876 Dec 20 12:35 PM  
*Notes: "A large spot followed by several small ones coming on."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1876 Dec 23 12:35 PM  
*Notes: "A large spot accompanied by one rather smaller. Below these a very small spot and two some distance, behind a very small pair of spot."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Jan 12 12:40 PM  
*Notes: "A large spot coming on, followed by two very small ones which do not appear in the photograph - On Jan. 4 a very faint spot was observed on the eastern limb. On Jan. 9 The faint spot was observed on the western limb and on the eastern limb a pair of very faint ones. These were no longer visible Jan. 12."*

Neg. Box 20 Sunspots, observed by Gardner and Hazard, 1877 Jan 13 [2:15 PM?] **[envelope only]**  
*Notes: "The last spot mentioned in the last record Jan 12. is still on the eastern limb. It is followed by two very small ones not seen in the photograph. Another large spot is just coming on."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Jan 14 12:33 PM

*Notes: "The two large spots seen in the picture of Jan. 13 appear to be moving regularly – One of the two very small ones which were observed following the large spot on the eastern limb, is no longer visible. The large spot coming on is surrounded by faculae."*

Neg. Box 19 Sunspots, observed by Gardner and Hazard, 1877 Jan 18 12:50 PM

*Notes: "The large group of spots near the center of the disk consists of three spots irregular in shape surrounded by a chain of faint spots. The small spot which followed the spot which is now on the western limb has disappeared."*

Neg. Box 25 Sunspots, observed by Gardner and Hazard, 1877 Jan 18 [1:12 PM?]

*Notes: "Duplicate"*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Jan 19

*Notes: "A regular motion of the single spot and the group is observed."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Jan 23 [1:00 PM?]

*Notes: "Duplicate"*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Jan 23 12:45 PM

*Notes: "One of the large spots visible in the last picture has passed off, the other is near the edge."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Jan 24

*Notes: "The spot is very near the edge and is surrounded by faculae."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Feb 7 [2:00 PM?]

*Notes: "A large spot coming on."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Feb 8 [1:49 PM?]

*Notes: "A large spot on the eastern limb."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Feb 9 12:25 PM

*Notes: "A spot on the eastern limb."*

Neg. Box 34 Sunspots, observed by Gardner and Woodward, 1877 Feb 10 12:50 PM

*Notes: "A spot approaching the center. The spot seems to be about 15 degrees from Equator."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Feb 13 12:40 PM

*Notes: "The spot is approaching the center."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Feb 14 12:55 PM

*Notes: "Duplicate."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Feb 14 12:55 PM

*Notes: "The spot is now on the western limb."*

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Feb 15 12:45 PM

Notes: "The spot is now on the western limb. On Feb. 14 a very small spot was observed accompanying the large one."

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Mar 1 12:50 PM

Notes: "Duplicate"

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Mar 1 12:40 PM

Notes: "A large group is visible near the center and a small spot above."

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Mar 3 12:35 PM

Notes: "The motion appears regular"

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Mar 5 12:45 PM

Notes: "The small spot has not been seen since Mch. 3. The group, consisting of a large spot surrounded by several small ones too small to appear in the picture, is now on the western limb."

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Mar 6

Notes: "The small spots, which have been observed, in the group now on the western limb are no longer visible. The two spots near the center have suddenly appeared. They were not seen Mch. 5."

Neg. Box 19 Sunspots, observed by Gardner and Hazard, 1877 Mar 7 2:02 PM

Notes: "The motion of the spots appears regular. Mch. 8. The group was still visible. Mch. 9 The Sun's disc was free from spots."

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Mar 21 12:30 PM

Notes: "On mch. 18 a large group of spots was first seen – 60 degrees from the equator, South in the telescope. On Mch 21 spots occupied the position shown in the photograph. From Mch. 21 to April 8 observations were – interrupted by clouds. But, when the sun's limb(?) could be seen, it appeared free from spots. On April 8 a very small spot was observed, on the eastern limb. A more powerful glass resolved this spot into two and showed faculae around. April 13th – No spots – (plate destroyed)"

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Apr 17 12:25 PM

Notes: "On April 14th the limb appeared to be free from spots. On April 15 there was observed two large spots followed by a cluster of small ones near the center. On April 16 these were seen on the western limb. On April 17 there appeared to be a change in the grouping of the spots, and a very large one was followed by a cluster and a single spot, as seen in the photograph."

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Apr 23 12:19 PM

Notes: "From April 17th to April 21 Clouds prevented observation. On April 21 a pair of spots was observed on the eastern limb. On April 22 this pair was seen to have moved on, while, on the eastern limb a pair of very small ones made their appearance. Both pairs are now visible, April 23."

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Apr 24 12:28 PM

Notes: "A regular motion is observed in the spots seen in the photograph of April 23, but the number and arrangement of the spots has changed, there being now a chain of spots near the center, and, a chain of very small ones on the eastern limb."

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 Apr 25 12:25 PM

Notes: "The spots in the group now on the western limb have decreased in number and size, while in the group now near the center there has been an increase in number and size of the spots. April 26 1877 No change is observed, except in position."

Neg. Box 14 Sunspots, observed by Gardner and Hazard, 1877 Apr 30 12:30 PM

Notes: "A very small group of spots surrounded by faculae was observed coming on April 29. This group was very far from the center, north in the telescope. It does not appear in the photograph."

Neg. Box 14 Sunspots, observed by Gardner and Hazard, 1877 May 4 12:30 PM [envelope only]

Notes: "The small group mentioned in the - of April 30 is still --- telescope but it does not appear in the photograph."

Neg. Box 14 Sunspots, observed by Gardner and Hazard, 1877 May 6 12:38 PM [envelope only]

Notes: "The small group first seen on April 29 was last seen May 5 about at the center of its course but very faint. On May 6 it could not be found. On May 5 a small spot followed by a faint small spot was seen on the western side of the center. This had not been seen May 4."

Neg. Box 34 Sunspots, observed by , 1877 May 8 12:35 PM

Notes: "Duplicate."

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 May 12 12:35 PM

Notes: "Two large spots near the center—For some days clouds have prevented observation"

Neg. Box 34 Sunspots, observed by Gardner and Hazard, 1877 May 14 12:26 PM

Notes: "One of the spots seen in the picture of May 12 has disappeared. The others appear to be moving regularly. The two were visible on May 13."

Neg. Box 32 Sunspots, observed by Gardner and Hazard, 1877 Jun 1 12:15 PM

Notes: "No Spots. "

Neg. Box 9 Sunspots, observed by Arnold and Barton, 1877 Jun 16 12:20 PM

Notes: "Group coming on—also two small spots."

Neg. Box 14 Sunspots, observed by Spalding and Hazard, 1878 Jan 28 [12:12 PM?] [envelope only]

Notes: "No spots. Feb. 16 No spots (plate destroyed) Feb. 20 No spots (plate destroyed)"

Neg. Box 14 Sunspots, observed by Spalding and Hazard, 1878 Feb 5 [12:12 PM?]

Notes: "A string of about 12 small spots near center of disc."

Neg. Box 14 Sunspots, observed by Spalding and Hazard, 1878 Feb 6 11:55 AM

Notes: "Several small spots passing off."

Neg. Box 14 Sunspots, observed by Spalding and Hazard, 1878 Mar 5 12:05 PM

Notes: "Two very small spots passing off disc. - March 6th No spots (plate destroyed) - March 8th No spots (plate destroyed)"

Neg. Box 16 Sunspots, observed by Gardner and Metcalf, 1878 Mar 10

Notes: "A spot surrounded by faculae coming on."

Neg. Box 14 Sunspots, observed by Spalding and Hazard, 1878 Mar 15 12:10 PM  
*Notes: "3 spots of -- -- double, passing of the disk [some words along the edge have disintegrated along with the paper.]"*

Neg. Box 14 Sunspots, observed by Spalding and Hazard, 1878 Mar 15 12:20 PM  
*Notes: "3 spots of which one is double, passing off the disc."*

Neg. Box 14 Sunspots, observed by Spalding and Hazard, 1878 Mar 16 12:01 PM **[envelope only]**  
*Notes: "Some spots that were seen Mar. 15th near edge of disc and fainter. [March 19-21] no spots - March 22. No spots, plate destroyed."*

Neg. Box 14 Sunspots, observed by Spalding and Hazard, 1878 Mar 23 12:25 PM  
*Notes: "No spots. - March [25-26, 29-30] No spots, plates destroyed - April [1-2, 8] No spots, plates destroyed"*

Neg. Box 1 Transit of Mercury, observed by Spalding, 1878 May 6 12:00 PM  
*Notes: "Mercury is well on to the disc; This is good."*

Neg. Box 36.7 Transit of Mercury, observed by Spalding and Hazard, 1878 May 6 10:40 AM  
*Notes: "Mercury has just entered"*

Neg. Box 1 Transit of Mercury, observed by Spalding and Hazard, 1878 May 6 12:01 PM  
*Notes: "The negative is very poor, but the planet is seen easily - [Maria Mitchell] (included is a drawing of the exact placement of the shadow of Mercury on the Sun.)"*

Neg. Box 36.8 Transit of Mercury, observed by Spalding and Hazard, 1878 May 6 1:26 PM  
*Notes: "Mercury in Transit"*

Neg. Box 14 Sunspots, observed by Spalding and Abbot, 1878 May 17 [12:12 PM?] **[envelope only]**  
*Notes: "Plate destroyed. No spots. - May 18, 22-24 no spots, plates destroyed."*

Neg. Box 14 Sunspots, observed by Spalding and Hazard, 1878 May 29 12:05 PM  
*Notes: "One single spot and one group consisting of three individual spots."*

Neg. Box 9 Sunspots, observed by Arnold and Stow, 1878 Jun 22  
*Notes: "Same group; faculae"*

Neg. Box 14 Sunspots, observed by Hazard and Macy, 1878 Sep 25 12:25 PM **[envelope only]**  
*Notes: "No spots. Sept. [27, 30] No spots (plates destroyed) - Oct. [2-5, 10] No spots (plates destroyed)"*

Neg. Box 14 Sunspots, observed by Hazard and Braden, 1878 Nov 4 12:30 PM  
*Notes: "One small spot to the right and above the center. The first spot visible since Sep. 22"*

Neg. Box 14 Sunspots, observed by Hazard and Dow, 1878 Nov 5 12:20 PM  
*Notes: "The same spot as in Nov. 4 further to the right."*

Neg. Box 14 Sunspots, observed by Hazard and Dow, 1878 Nov 7 12:01 PM  
*Notes: "The same spot as in Nov. 4 and 5. - Nov. 14th no spots. Plate destroyed."*

Neg. Box 14 Sunspots, observed by Hazard and Armstrong, 1879 Apr 8 12:10 PM [envelope only]  
*Notes: "No spots."*

Neg. Box 19 Sunspots, observed by Hazard and Mott, 1879 May 9 12:15 PM

Neg. Box 19 Sunspots, observed by Hazard and Mott, 1879 May 10 12:10 PM  
*Notes: "Same spot as in May 9. moved further on."*

Neg. Box 19 Sunspots, observed by Hazard and Hodge, 1879 May 12 12:15 PM  
*Notes: "No spot visible\* in photograph. Same spot of May 9 and 10. viewed with large telescope May 12 and found to consist of four small ones. Too small on that day to be viewed with - survey telescope. \* I think the spots are seen here - [Maria Mitchell]"*

Neg. Box 19 Sunspots, observed by Hodge and Arnold, 1879 Nov 10 12:45 PM  
*Notes: "Spots. Duplicate."*

Neg. Box 19 Sunspots, observed by Hodge and Arnold, 1879 Nov 10 12:15 PM  
*Notes: "Group of two large spots with small ones surrounding them. Situated on lower edge toward the right. First seen Nov. 7."*

Neg. Box 14 Sunspots, observed by Hodge and Wentworth, 1879 Nov 24 11:45 AM [envelope only]  
*Notes: "No spots."*

Neg. Box 19 Sunspots, observed by Hodge and Wentworth, 1879 Dec 2 11:45 AM  
*Notes: "Spots seen at right of center."*

Neg. Box 19 Sunspots, observed by Hodge and Wentworth, 1879 Dec 3 11:45 AM  
*Notes: "Same spots as Sun Dec. 2."*

Neg. Box 14 Sunspots, observed by Hodge and Wentworth, 1879 Dec 5 11:45 AM [envelope only]  
*Notes: "Sun spot last seen near the center of the sun has suddenly disappeared."*

Neg. Box 36.28 Saturn, observed by [Hodge?], circa 1880

Neg. Box 14 Sunspots, observed by Hodge and Wentworth, 1880 Jan 21 11:45 AM [envelope only]  
*Notes: "No spots. There is something which looks very much like a spot toward the middle."*

Neg. Box 4 Sunspots, observed by Hodge and Wentworth, 1880 Feb 2 12:02 PM  
*Notes: "Three groups of spots. Duplicate"*

Neg. Box 14 Sunspots, observed by Hodge and Wentworth, 1880 Feb 2 12:10 PM [envelope only]  
*Notes: "One group of large and two groups of small spots seen on Sun. First seen Jan. 31. They were then some distance from the edge."*

Neg. Box 4 Sunspots, observed by Hodge and Wentworth, 1880 Feb 4 12:02 PM  
*Notes: "Same spots of Feb. 2, with another small one which has just come on the sun (there is also a diagram of the sun depicting this explanation of the spots.)"*

Neg. Box 4 Sunspots, observed by Hodge and Wentworth, 1880 Feb 5 12:05 PM  
*Notes: "Same spots of Feb. 4, which have advanced more to the left. The one just on the sun has a surrounding of faculae."*

Neg. Box 4 Sunspots, observed by Hodge and [E. M. Mame?], 1880 Feb 6 11:55 AM  
*Notes: "Same spots as seen Feb. 4. Duplicate"*

Neg. Box 4 Sunspots, observed by Hodge and [E. M. Mame?], 1880 Feb 6 11:45 AM  
*Notes: "Same spots of Feb. 4, which have moved toward the left. Two small ones and faculae seen around the one nearest the edge."*

Neg. Box 14 Sunspots, observed by Hodge and Wentworth, 1880 Feb 9 11:40 AM  
*Notes: "The spots of Feb. 4 are moving to the left limb of Sun. Another group of spots suddenly appeared Feb. 8, beyond the center. The wind was blowing a – when this picture was taken. But four groups of spots may be on the limb of the Sun which is near the second seen."*

Neg. Box 4 Sunspots, observed by Hodge and Lathrop, 1880 Feb 10 12:15 PM  
*Notes: "Four groups of spots seen on limb of Sun which is next the second impression. Feb. 11 and 12 were cloudy, but the spots were still seen on the afternoon of Feb 12 near the limb of Sun."*

Neg. Box 14 Sunspots, observed by Hodge and Bush, 1880 Feb 14 12:15 PM [envelope only]  
*Notes: "No spots. Feb. 16 No spots (plate destroyed) Feb. 20 No spots (plate destroyed)"*

Neg. Box 4 Sunspots, observed by Hodge and Wentworth, 1880 Feb 24 11:55 AM  
*Notes: "One group of spots with faculae has just appeared on the Sun. No more photographs obtained till Feb. 27 on account of rain and cloudiness."*

Neg. Box 4 Sunspots, observed by Hodge and Bush, 1880 Feb 27 12:15 PM  
*Notes: "The group of spots has advanced about halfway across the Sun"*

Neg. Box 4 Sunspots, observed by Hodge and Wentworth, 1880 Mar 1 11:45 AM  
*Notes: "One group of spots."*

Neg. Box 4 Sunspots, observed by Hodge and Wentworth, 1880 Mar 4 11:45 AM  
*Notes: "Small spot seen on edge of sun near it's – offallow(?) -."*

Neg. Box 4 Sunspots, observed by Hodge and Wentworth, 1880 Mar 8 11:45 AM  
*Notes: "Two groups of spots seen in photograph."*

Neg. Box 4 Sunspots, observed by Hodge and Wentworth, 1880 Mar 10 11:45 AM  
*Notes: "One group of spots seen"*

Neg. Box 4 Sunspots, observed by Hodge and Wentworth, 1880 Apr 10 11:45 AM

Notes: "Small spots seen on edge which is next to second seen"

Neg. Box 4 Sunspots, observed by Hodge and Cady, 1880 Apr 27 12:15 PM

Notes: "A long row of spots is seen near the zenith a little past – of Sun. There were many clouds and the wind was blowing hard when this picture was taken. The four preceding days were cloudy and these spots were first seen today."

Neg. Box 17 Sunspots, observed by Hodge and Wentworth, 1880 May 1 12:15 PM

Notes: "Spot of April 27 photographed."

Neg. Box 17 Sunspots, observed by Hodge and Wentworth, 1880 May 3 11:05 AM

Notes: "Spots of April 27 photographed, and another large spot with faculae which has just come on the Sun."

Neg. Box 17 Sunspots, observed by Hodge and Wentworth, 1880 May 4 11:05 AM

Notes: "Spot of April 24 is still on Sun, but is not seen in photograph. The spot of May 3 has a companion spot just by it. This large spot when observed with the equatorial showed numerous small spots. The edge of the umbra was jagged, that of the penumbra was wavy."

Neg. Box 17 Sunspots, observed by Hodge and Braislin, 1880 May 5 12:01 PM

Notes: "Large spot of May 3 photographed."

Neg. Box 17 Sunspots, observed by Hodge and Wentworth, 1880 May 6 11:05 AM

Notes: "Large spot of May 3 photographed."

Neg. Box 26 Sunspots, observed by Hodge and Braislin, 1880 May 10 11:45 AM

Notes: "Spot of May 3 photographed"

Neg. Box 17 Sunspots, observed by Hodge and Wentworth, 1880 May 12 11:45 AM

Notes: "Spot of May 3 is fast disappearing from limb of Sun."

Neg. Box 17 Sunspots, observed by Hodge and Wentworth, 1880 May 24 11:45 AM

Notes: "A spot has just come on the edge of the Sun."

Neg. Box 1 Sunspots, observed by Hodge and Wentworth, 1880 May 29 12:05 PM

Notes: "The spots first seen May have fairly increased and there are now two larger spots and eight or ten smaller ones. No photographs have been taken since May 24 on account of the intense heat, the thermometer – 90° and 92°. On May 28 the smaller spots formed an acute angle to the left of the large spot. The sun spots are the group near the middle. The other spots are defects in the work or on the glass. -M.M."

Neg. Box 17 Sunspots, observed by , 1880 Jun 3 12:01 PM

Notes: "Spots of May 24 and June 1 photographed. Duplicate."

Neg. Box 17 Sunspots, observed by Hodge and Wentworth, 1880 Jun 3 11:55 AM

Notes: "Spots of May 24 and June 1 photographed. They are small and very faint. The spots of May 24 are near the edge, moving off; those of June 1 are approaching the center."

Neg. Box 17 Sunspots, observed by Hodge and Wentworth, 1880 Jun 14 11:55 AM  
*Notes: "A small spot has just appeared on the Sun. It is very faint in photograph but may be seen on the edge of Sun away from the second impression."*

Neg. Box 25 Sunspots, observed by Hodge and Wentworth, 1880 Jun 16 11:45 AM  
*Notes: "The group of June 14 has advanced upon the sun and has separated into one large spot followed by several small spots surrounded by faculae."*

Neg. Box 25 Sunspots, observed by Hodge and Wentworth, 1880 Jun 17 11:55 AM  
*Notes: "Group of June 14 photographed. Another spot has just appeared."*

Neg. Box 25 Sunspots, observed by Hodge and Bush, 1880 Jun 18 12:01 PM  
*Notes: "Groups of June 17 photographed."*

Neg. Box 17 Sunspots, observed by Hodge and Bush, 1880 Sep 29 12:35 PM  
*Notes: "Four groups of spots, with smaller ones surrounding them, seen on the sun."*

Neg. Box 14 Sunspots, observed by Hodge and Bush, 1880 Oct 8 12:02 PM [envelope only]  
*Notes: "Two groups of very small spots not seen in photograph."*

Neg. Box 14 Sunspots, observed by Hodge and Bush, 1880 Oct 9 12:25 PM [envelope only]  
*Notes: "Two groups of very small spots which do not appear in photograph."*

Neg. Box 14 Sunspots, observed by Hodge and Bush, 1880 Oct 11 12:15 PM [envelope only]  
*Notes: "Two groups of very small spots were seen by the telescope, but they do not appear in photograph"*

Neg. Box 17 Sunspots, observed by Hodge and Bush, 1880 Oct 13 12:02 PM  
*Notes: "One group of very small spots not seen in photograph is just disappearing from Sun. Another group of larger spots with faculae has just come on. This group is seen in photograph."*

Neg. Box 14 Sunspots, observed by Hodge and Case, 1880 Oct 19 12:02 PM [envelope only]  
*Notes: "Four groups of spots photographed. Three of these groups are accompanied by small spots."*

Neg. Box 23 Sunspots, observed by Hodge and Bush, 1880 Oct 20 12:02 PM  
*Notes: "Two new spots have appeared on the Sun making with the others, which have divided, eight distinct spots. Some of these have faculae and smaller spots surrounding them."*

Neg. Box 23 Sunspots, observed by Hodge and Bush, 1880 Oct 27 12:15 PM  
*Notes: "One group of spots photographed on the sun. No photograph has been taken since Oct. on account of cloudiness."*

Neg. Box 14 Sunspots, observed by Hodge and Case, 1880 Oct 28 12:02 PM [envelope only]  
*Notes: "Two small groups of spots are on the Sun. but do not appear in photograph."*

Neg. Box 17 Sunspots, observed by Hodge and Case, 1880 Nov 1 12:15 PM  
*Notes: "A group of four spots photographed on Sunday - Nov. 8-9 No spots (plate destroyed)"*

Neg. Box 22 Sunspots, observed by Hodge and Case, 1881 25 Jan 12:01 PM  
*Notes: "Two groups of spots seen in both impressions. One group has at least four large spots with faculae. Their spots were first seen today."*

Neg. Box 22 Sunspots, observed by Hodge and Harrison, 1881 29 Jan 12:02 PM  
*Notes: "Four groups of spots consisting of at least nine distinct spots."*

Neg. Box 22 Sunspots, observed by Hodge and Bush, 1881 Feb 3 12:02 PM  
*Notes: ""Two groups of spots. One leaving, the other coming on Sun. These spots were first seen Feb. 2. but were not photographed since the thermometer (?) was but 2° at 12 m."*

Neg. Box 4 Sunspots, observed by Hodge and Harrison, 1881 Feb 4 12:01 PM  
*Notes: "One group seen Feb. 2 has disappeared leaving one group. This consists of at least four different spots."*

Neg. Box 22 Sunspots, observed by Hodge and Raymond, 1881 Feb 5 [12:12 PM?]  
*Notes: "Group of Feb. 4 photographed This group has divided into several"*

Neg. Box 36.9 Sunspots, observed by Hodge and Raymond, 1881 Feb 7 12:20 PM  
*Notes: "Four groups of spots, the separate ones quite distinct."*

Neg. Box 4 Sunspots, observed by Hodge and Harrison, 1881 Feb 9 12:01 PM  
*Notes: "Three group(s) of the spots of Feb. 7 photographed."*

Neg. Box 4 Sunspots, observed by Hodge and Harrison, 1881 Feb 11  
*Notes: "Two groups of spots. The group just on the limb of the Sun has faculae."*

Neg. Box 4 Sunspots, observed by Hodge and Whitney, 1881 Feb 14 12:01 PM  
*Notes: "Two groups of spots. One going off. The other just appearing on limb of the Sun."*

Neg. Box 4 Sunspots, observed by Hodge and Whitney, 1881 Feb 15 12:01 PM  
*Notes: "Three groups of small spots two just appearing on the limb of the Sun"*

Neg. Box 4 Sunspots, observed by Hodge and Whitney, 1881 Feb 16 12:02 PM  
*Notes: "Four groups of spots. Two on either limb. In one spot the umbra and penumbra are distinctly seen."*

Neg. Box 22 Sunspots, observed by Hodge and Whitney, 1881 Feb 22 [12:12 PM?]  
*Notes: "Seven groups consisting of at least twelve separate spots. Duplicate."*

Neg. Box 22 Sunspots, observed by Hodge and Whitney, 1881 Feb 22 11:58 AM  
*Notes: "Seven groups of spots consisting of at least twelve separate spots."*

Neg. Box 22 Sunspots, observed by Hodge and Whitney, 1881 Feb 25 12:01 PM  
*Notes: "Five groups of spots, Four in the same parallel, and one other quite near the edge. These groups have changed very much since they were first seen Feb. 22." The folder then contains a slip of paper diagramming the Sun spots of Feb. 24th.-- "Sun spots on Feb. 24. 1881."*

Neg. Box 4 Sunspots, observed by Hodge and Whitney, 1881 Mar 7 12:05 PM  
*Notes: "One very small spot on the sun. The larger – is not a spot."*

Neg. Box 22 Sunspots, observed by Hodge and Whitney, 1881 Mar 8 12:01 PM  
*Notes: "The small spot of March 7 photographed."*

Neg. Box 36.6 Sunspots, observed by Hodge and Whitney, 1881 Mar 15 12:20 PM  
*Notes: "Remarkable spots on Sun. Five groups, the largest of which shows thirteen separate ones in the photograph. Seen through the telescope this group gave other smaller ones and faculae. The groups changed perceptibly during the day."*

Neg. Box 22 Sunspots, observed by Hodge and Whitney, 1881 Mar 16 12:01 PM  
*Notes: "Groups of March 15 photographed. The larger cluster has changed but little."*

Neg. Box 22 Sunspots, observed by Whitney, 1881 Mar 25 12:07 PM  
*Notes: "One group of Mch. 15 photographed. It is just leaving the Sun's limb. One small spot is seen near the center of Sun. - No photographs have been taken since Mch. 16 on account of the heavy clouds. On only one day since then could the sun be viewed with the telescope."*

Neg. Box 22 Sunspots, observed by Hodge and Whitney, 1881 Apr 4 12:05 PM  
*Notes: "Three small groups of spots seen in the photograph. These spots were first seen today."*

Neg. Box 22 Sunspots, observed by Hodge and Whitney, 1881 Apr 29 12:01 PM  
*Notes: "Small spot near edge of Sun."*

Neg. Box 22 Sunspots, observed by Hodge and Whitney, 1881 May 4 12:01 PM  
*Notes: "Three groups of small spots. In photograph only one spot can be distinguished in two of the groups."*

Neg. Box 22 Sunspots, observed by Whitney and Hodge, 1881 May 9  
*Notes: "Two of the groups of May 4 are seen near center of Sun. - No photographs taken on May 10, 11, 12, 13 on account of extreme heat, the [thermometer] being between 80° and 90.° No picture taken May 14 because I was printing negatives. There is a quite large spot seen with small ones about it. The umbra and penumbra are distinctly marked."*

Neg. Box 4 Sunspots, observed by Hodge and Whitney, 1881 May 24 12:15 PM  
*Notes: "Two groups of spots. One group contains six distinct spots which can be seen in photo. The other has several(?)".*

Neg. Box 22 Sunspots, observed by Hodge and Whitney, 1881 May 25 [12:12 PM?]  
*Notes: "Two groups containing small spots. The telescope – one of the large spots into two."*

Neg. Box 22 Sunspots, observed by Hodge and Whitney, 1881 May 26 12:05 PM  
*Notes: "Spots of May 25th"*

Neg. Box 36.10 Sunspots, observed by Hodge and Whitney, 1881 May 30 12:10 PM  
*Notes: "Large group of spots with faculae. There are five large distinct ones."*

Neg. Box 22 Sunspots, observed by Whitney and Hodge , 1881 May 31 12:05 PM  
*Notes: "Spots of May 30. which have grown larger and separated more."*

Neg. Box 22 Observed by [unknown], [1881 Jun 1?]

Neg. Box 4 Sunspots, observed by Hodge and Whitney, 1881 Jun 1 12:01 PM  
*Notes: "Spots of May 30 photographed."*

Neg. Box 4 Sunspots, observed by Hodge and Whitney, 1881 Jun 6 12:01 PM  
*Notes: "Spots of May 30, which have grown(?) smaller and quite indistinct."*

Neg. Box 22 Sunspots, observed by Hodge and Whitney, 1881 Jun 6 12:15 PM  
*Notes: "Spots of May 30th"*

Neg. Box 22 Sunspots, observed by Arnold and Whitney, 1881 Nov 10 12:30 PM  
*Notes: "Four groups. One large one just coming on."*

Neg. Box 22 Sunspots, observed by Whitney and Boyd, 1881 Nov 11 12:03 PM  
*Notes: "Same groups and Nov. 10th"*

Neg. Box 22 Sunspots, observed by Whitney and Boyd, 1881 Nov 16 12:02 PM  
*Notes: "Large spot of No. 11 in center and large group coming on."*

Neg. Box 22 Sunspots, observed by Whitney and Boyd, 1881 Nov 17 12:16 PM  
*Notes: "Same groups as on the 16th"*

Neg. Box 22 Sunspots, observed by Whitney and Boyd, 1881 Nov 22 12:15 PM  
*Notes: "Large group of 17th past middle. Large spot passing off. Cloud over sun."*

Neg. Box 22 Sunspots, observed by Whitney and Boyd, 1881 Nov 30 12:15 PM  
*Notes: "Some large spots as on 28th."*

Neg. Box 22 Sunspots, observed by Whitney and Boyd, 1881 Dec 5 12:15 PM  
*Notes: "Spot of Nov. 30th past middle. Large group since appeared. Branches interfered"*

Neg. Box 22 Sunspots, observed by Whitney and Boyd, 1881 Dec 8 12:35 PM  
*Notes: "Large group of Dec. 5 past center. Large spot passing off. Another just coming on."*

Neg. Box 22 Sunspots, observed by Whitney and Boyd, 1881 Dec 10 12:40 PM  
*Notes: "Large group of Dec. 8th passing off – Two new spots have appeared."*

Neg. Box 17 Sunspots, observed by Whitney and Bush, 1882 Jan 5 12:15 PM  
*Notes: "Same groups as on June 4th"*

Neg. Box 26 Sunspots, observed by Whitney and Morris, 1882 Jan 12 12:18 PM

Notes: "Two groups, one of them just coming on. Also a Third, faint in negative; all preceding middle"

Neg. Box 26 Sunspots, observed by Whitney and Morris, 1882 Jan 14 12:22 PM

Notes: "Same group as on 12th"

Neg. Box 6 Sunspots, observed by Whitney and Morris, 1882 Jan 23 12:20 PM

Notes: "Two spots—preceding middle."

Neg. Box 6 Sunspots, observed by Whitney and Morris, 1882 Feb 2 12:20 PM

Notes: "One large spot in group past middle and two faint ones."

Neg. Box 6 Sunspots, observed by Whitney and Morris, 1882 Feb 3 12:22 PM

Notes: "Same spots as seen on 2nd with one new group preceding middle."

Neg. Box 6 Observed by Whitney and Morris, 1882 Feb 8 12:35 PM

Notes: "Poor"

Neg. Box 26 Observed by Whitney and Morris, 1882 Feb 11 12:40 PM

Neg. Box 19 Observed by Whitney and Morris, 1882 Feb 14 12:20 PM

Neg. Box 6 Observed by Whitney and Morris, 1882 Feb 15 12:21 PM

Neg. Box 6 Observed by Whitney and Morris, 1882 Feb 17 12:15 PM

Neg. Box 26 Observed by Whitney and Boyd, 1882 Feb 18 12:40 PM

Neg. Box 26 Sunspots, observed by Whitney and Morris, 1882 Feb 27 12:21 PM

Notes: "Small group near middle (Another was seen in negative). Spot coming on."

Neg. Box 17 Observed by Whitney and Morris, 1882 Feb 28 12:20 PM

Neg. Box 23 Sunspots, observed by Whitney and Boyd, 1882 Mar 2 12:12 PM

Notes: "Small group of Feb. 28 has disappeared."

Neg. Box 17 Sunspots, observed by Whitney and Morris, 1882 Mar 3 12:15 PM [envelope only]

Notes: "Two small spots which were not seen yesterday."

Neg. Box 20 Sunspots, observed by Whitney and Morris, 1882 Mar 8 12:18 PM

Notes: "Group on preceding limb. Large spot on following limb. Duplicate."

Neg. Box 26 Sunspots, observed by Whitney and Morris, 1882 Mar 8 12:32 PM

Notes: "Group of Mar. 3rd on preceding limb. Two small spots have appeared following it—large spot on following limb."

Neg. Box 20 Sunspots, observed by Whitney and Morris, 1882 Mar 11 12:18 PM

Notes: "Duplicate"

Neg. Box 26 Observed by Whitney and Morris, 1882 Mar 11 12:30 PM

Neg. Box 26 Observed by Whitney and Morris, 1882 Mar 14 12:15 PM

Neg. Box 26 Sunspots, observed by Whitney and Crane, 1882 Mar 17 12:00 PM  
*Notes: "Large spot on following limb- Group near center. Spots indistinct in negative; exposure too long."*

Neg. Box 26 Sunspots, observed by Whitney and Morris, 1882 Mar 20 12:27 PM  
*Notes: "The two spots nearest center have appeared since March 17th"*

Neg. Box 6 Observed by Whitney and Morris, 1882 Mar 23 12:25 PM

Neg. Box 6 Observed by Whitney and Morris, 1882 Mar 25 12:15 PM

Neg. Box 17 Observed by Whitney and Morris, 1882 Mar 28 12:20 PM

Neg. Box 26 Sunspots, observed by Whitney and Witkowsky, 1882 Apr 10 12:10 PM  
*Notes: "(Aperture a)"*

Neg. Box 36.25 Sunspots, observed by Whitney and Morris, 1882 Apr 17 12:12 PM  
*Notes: "Large group, accompanied with aurora."*

Neg. Box 23 Observed by Whitney and Morris, 1882 Apr 18 12:10 PM

Neg. Box 26 Observed by Whitney and Stanton, 1882 Apr 23 12:10 PM  
*Notes: "Cloudy"*

Neg. Box 6 Sunspots, observed by Whitney and Morris, 1882 Apr 25 12:20 PM  
*Notes: "Large group of 18h on edge"*

Neg. Box 17 Sunspots, observed by Whitney and Morris, 1882 May 3 12:10 PM  
*Notes: "Very large spot coming on. Faint-group further on, not seen in negative-"*

Neg. Box 26 Sunspots, observed by Whitney and Morris, 1882 May 8 12:35 PM  
*Notes: "Light clouds over sun."*

Neg. Box 32 Sunspots, observed by Whitney and Sudduth, 1882 May 16 12:35 PM  
*Notes: "Large group probably that of April 17th"*

Neg. Box 26 Observed by [unknown], 1882 May 19  
*Notes: "[no cover, engraved with date]"*

Neg. Box 6 Sunspots, observed by Whitney and Sudduth, 1882 May 23 12:15 PM  
*Notes: "One group just on edge. Another following."*

Neg. Box 6 Observed by Whitney and Sudduth, 1882 May 24 12:15 PM

Neg. Box 26 Sunspots, observed by Whitney and Sudduth, 1882 May 26 12:14 PM

*Notes: "Spot coming on."*

Neg. Box 6 Sunspots, observed by Whitney and Sudduth, 1882 May 27 12:15 PM

*Notes: "Very small spot - large --"*

Neg. Box 17 Observed by Whitney and Sudduth, 1882 May 29 12:18 PM

Neg. Box 26 Sunspots, observed by Whitney and Sudduth, 1882 May 30 12:11 PM

*Notes: "Faint, small spot, making equilateral triangle with large ones."*

Neg. Box 26 Sunspots, observed by Whitney and Sudduth, 1882 May 31 12:14 PM

*Notes: "Clouds over sun."*

Neg. Box 19 Observed by Whitney and Sudduth, 1882 Jun 2 12:12 PM

Neg. Box 20 Observed by Whitney and Adams, 1882 Jun 5 11:56 AM

*Notes: "Duplicate"*

Neg. Box 23 Observed by Whitney and Sudduth, 1882 Jun 6 12:15 PM

Neg. Box 6 Sunspots, observed by Whitney and Gardner, 1882 Sep 30 12:00 PM

*Notes: "Large spots passed middle"*

Neg. Box 25 Sunspots, observed by Whitney and Gardner, 1882 Oct 1 12:10 PM

*Notes: "Large nucleus"*

Neg. Box 13 Sunspots, observed by Whitney and Gardner, 1882 Oct 2 12:12 PM

*Notes: "Large single nucleus - (with return(?))"*

Neg. Box 23 Observed by Whitney and Gardner, 1882 Oct 3 12:15 PM

Neg. Box 23 Observed by Whitney and Gardner, 1882 Oct 4 12:06 PM

Neg. Box 19 Sunspots, observed by Whitney and Spafford, 1882 Oct 7 12:00 PM

*Notes: "Only one small spot."*

Neg. Box 19 Observed by Whitney and Spafford, 1882 Oct 10 12:07 PM

Neg. Box 23 Observed by Whitney and Gardner, 1882 Oct 14 12:10 PM

*Notes: "Clouds over sun."*

Neg. Box 23 Observed by Whitney and Spafford, 1882 Oct 18 12:15 PM

*Notes: "Cloudy"*

Neg. Box 23 Observed by Whitney and Spafford, 1882 Oct 20 12:03 PM

*Notes: "Cloudy"*

Neg. Box 25 Sunspots, observed by Whitney and Spafford, 1882 Oct 25 12:02 PM

*Notes: "Probably the return of large spot of Oct. 2nd"*

Neg. Box 23 Observed by Whitney and Spafford, 1882 Oct 26 11:59 AM

*Notes: "4 Cab. Vassar College Observatory"*

Neg. Box 20 Observed by Whitney and Gardner, 1882 Oct 28 12:00 PM

*Notes: "Duplicate. Poor"*

Neg. Box 36.2 Sunspots, observed by Whitney and Gardner, 1882 Oct 28 12:00 PM

*Notes: "If this can be well printed, make this one of the four; if not, take the Venus transit no. 4"*

Neg. Box 23 Observed by Whitney and Spafford, 1882 Oct 30 12:15 PM

*Notes: "Cloudy"*

Neg. Box 19 Observed by Whitney and Spafford, 1882 Nov 1 12:02 PM

Neg. Box 23 Observed by Whitney and Spafford, 1882 Nov 6 12:04 PM

Neg. Box 23 Observed by Whitney and Spafford, 1882 Nov 7 12:10 PM

Neg. Box 23 Observed by Whitney and Spafford, 1882 Nov 8 12:05 PM

*Notes: "Poor focus"*

Neg. Box 23 Observed by Whitney and Spafford, 1882 Nov 9 12:07 PM

Neg. Box 19 Sunspots, observed by Whitney and Spafford, 1882 Nov 15 12:06 PM

*Notes: "Large group. (with aurora)"*

Neg. Box 6 Observed by Whitney and Spafford, 1882 Nov 16 12:05 PM

Neg. Box 26 Observed by Whitney and Spafford, 1882 Nov 18 12:10 PM

*Notes: "Vassar College Observatory"*

Neg. Box 23 Observed by Whitney and Spafford, 1882 Nov 20 12:00 PM

Neg. Box 23 Observed by Whitney and Spafford, 1882 Nov 21 12:06 PM

*Notes: "Cloudy"*

Neg. Box 25 Observed by Whitney and Spafford, 1882 Nov 22 12:07 PM

Neg. Box 23 Observed by Whitney and Stanton, 1882 Nov 24 circa 12:00 PM

Neg. Box 26 Observed by Whitney and Spafford, 1882 Nov 27 12:10 PM

Neg. Box 36.23 Transit of Venus, observed by [unknown], 1882 Dec 6 circa 11:07 AM

*Notes: "No. 1. Transit of Venus. Cloudy. North point 9° 7' East of vertex"*

Neg. Box 36.1 Transit of Venus, observed by [unknown], 1882 Dec 6 11:22 AM

*Notes: "No. 2. Transit of Venus. Cloudy"*

Neg. Box 2 Transit of Venus, observed by [unknown], 1882 Dec 6 11:35:49 AM

*Notes: "No. 3. Transit of Venus. Cloudy"*

Neg. Box 36.24 Transit of Venus, observed by [unknown], 1882 Dec 6 11:49:37 AM [plate in poor condition]

*Notes: "Transit of Venus. Slightly Cloudy. North point- 21' East of vertex."*

Neg. Box 36.5 Transit of Venus, observed by [unknown], 1882 Dec 6 [1:42 PM?]

*Notes: "No. 8. Transit of Venus. Branches of a tree interposed."*

Neg. Box 17 Observed by Whitney and Gardner, 1882 Dec 16 12:15 PM

Neg. Box 19 Observed by Whitney and Spafford, 1882 Dec 18 12:07 PM

Neg. Box 14 Sunspots, observed by Whitney and Gardner, 1883 Jan 30 12:05 PM

*Notes: "Small spots. Poor negative"*

Neg. Box 13 Sunspots, observed by Whitney and Gardner, 1883 Feb 1 12:10 PM

*Notes: "Four small spots or groups. Poor negative."*

Neg. Box 32 Sunspots, observed by Whitney and Jenckes, 1883 Feb 10 12:10 PM

*Notes: "Cloudy. Poor negative."*

Neg. Box 32 Sunspots, observed by Whitney and Jenckes, 1883 Mar 2 12:12 PM

*Notes: "One small spot."*

Neg. Box 32 Sunspots, observed by Whitney and Jenckes, 1883 Mar 13 12:06 PM

*Notes: "5 groups, 25 spots (all counted) MacDonald, -- 33."*

Neg. Box 32 Sunspots, observed by Whitney and Gardner, 1883 Mar 14 12:31 PM

*Notes: "4 Groups - 11 spots. (Macdonald)"*

Neg. Box 13 Observed by Whitney and Gardner, 1883 Mar 18 9:50 AM

Neg. Box 20 Sunspots, observed by Whitney and Jenckes, 1883 Mar 19 12:12 PM

*Notes: "4 good. 9 spots. Duplicate."*

Neg. Box 23 Sunspots, observed by Whitney and Jenckes, 1883 Mar 19 12:00 PM

*Notes: "4 gr. 9 spots."*

Neg. Box 6 Observed by Whitney and Jenckes, 1883 Apr 4 12:12 PM

Neg. Box 20 Observed by Whitney and Jenckes, 1883 Apr 4 12:04 PM

*Notes: "Duplicate"*

Neg. Box 6 Observed by Whitney and Gardner, 1883 Apr 6 [1:50 PM?]

Neg. Box 6 Observed by Whitney and Jenckes, 1883 Apr 9 12:03 PM

Neg. Box 6 Observed by Whitney and Jenckes, 1883 Apr 10 12:15 PM

Neg. Box 6 Observed by Whitney and Jenckes, 1883 Apr 18 12:36 PM

Neg. Box 6 Observed by Whitney and Jenckes, 1883 Apr 19 12:17 PM

Neg. Box 6 Observed by Whitney and Gardner, 1883 Apr 21 [12:25 PM?]

*Notes: "Duplicate"*

Neg. Box 6 Observed by Whitney and Jenckes, 1883 Apr 24 12:02 PM

Neg. Box 6 Observed by Whitney and Jenckes, 1883 Apr 25 12:08 PM

Neg. Box 32 Observed by Whitney and Jenckes, 1883 Apr 30 12:04 PM

Neg. Box 32 Observed by Whitney and Jenckes, 1883 May 1 12:07 PM

Neg. Box 32 Observed by Whitney and Adams, 1883 May 2 12:28 PM

Neg. Box 32 Observed by Whitney and Adams, 1883 May 9 12:00 PM

Neg. Box 32 Observed by Whitney and Adams, 1883 May 12 12:10 PM

Neg. Box 32 Observed by Whitney and Adams, 1883 May 16 12:04 PM

Neg. Box 32 Observed by Whitney and Adams, 1883 May 17 12:06 PM

Neg. Box 32 Observed by Whitney and Gardner, 1883 May 18 12:15 PM

Neg. Box 30 Observed by Whitney and Gardner, 1883 May 19 12:30 PM

Neg. Box 15 Sunspots, observed by Whitney and Adams, 1883 Jun 5 12:18 PM

*Notes: "Very small spots on the sun. negative by Miss Whitney of Vassar College"*

Neg. Box 15 Observed by Whitney and Adams, 1883 Jun 7 12:00 PM

Neg. Box 15 Observed by Whitney and Gardner, 1883 Jun 12 12:20 PM

Neg. Box 12 Observed by Whitney and Mitchell, 1883 Oct 3 [1:30 PM?]

*Notes: "Duplicate. Something wrong. Pulops over exposure"*

Neg. Box 15 Observed by Whitney and Richmond, 1883 Oct 3 12:07 PM

Neg. Box 15 Observed by Whitney and Richmond, 1883 Oct 5 12:12 PM

Neg. Box 15 Observed by Whitney and Richmond, 1883 Oct 8 12:05 PM

Neg. Box 15 Observed by Whitney and Richmond, 1883 Oct 9 [12:20 PM?]

Neg. Box 20 Observed by Whitney and Richmond, 1883 Oct 9 [12:15 PM?]

*Notes: "Duplicate"*

Neg. Box 15 Observed by Whitney and Richmond, 1883 Oct 10 [12:15 PM?]

Neg. Box 15 Observed by Whitney and Richmond, 1883 Oct 11 12:11 PM [envelope only]

*Notes: "Vassar College Observatory"*

Neg. Box 15 Observed by Whitney and Richmond, 1883 Oct 15 12:08 PM

*Notes: "Vassar College Observatory"*

Neg. Box 23 Observed by Whitney and Richmond, 1883 Oct 16 12:23 PM

Neg. Box 23 Observed by Whitney and Richmond, 1883 Oct 17 12:11 PM

Neg. Box 23 Observed by Whitney, 1883 Oct 19 12:00 PM

Neg. Box 23 Observed by Whitney and Richmond, 1883 Oct 30 12:20 PM

Neg. Box 20 Observed by Whitney and Richmond, 1883 Nov 5 12:11 PM

*Notes: "Duplicate"*

Neg. Box 23 Observed by Whitney and Richmond, 1883 Nov 5 12:25 PM

Neg. Box 15 Observed by Whitney and Richmond, 1883 Nov 7 12:30 PM

*Notes: "Poor Focus."*

Neg. Box 15 Observed by Whitney and Richmond, 1883 Nov 8 12:10 PM

Neg. Box 14 Observed by Whitney and Richmond, 1883 Nov 15 [1:23 PM?] [envelope only]

*Notes: "Duplicate. Cloudy"*

Neg. Box 15 Observed by Whitney and Richmond, 1883 Nov 15 12:13 PM

*Notes: "Cloudy"*

Neg. Box 15 Observed by Whitney and Richmond, 1883 Nov 16 12:07 PM

Neg. Box 15 Observed by Whitney and Richmond, 1883 Nov 17 12:27 PM

*Notes: "Vassar College Observatory"*

Neg. Box 6 Observed by Whitney and Richmond, 1883 Nov 19 [12:20 PM?]

*Notes: "Duplicate"*

Neg. Box 15 Observed by Whitney and Richmond, 1883 Nov 19 12:25 PM

*Notes: "Cloudy."*

Neg. Box 19 Observed by Whitney and Richmond, 1883 Nov 27 12:04 PM

*Notes: "Poor negative"*

Neg. Box 15 Observed by Whitney and Richmond, 1883 Dec 3 12:14 PM

*Notes: "Poor negative"*

Neg. Box 15 Observed by Whitney and Richmond, 1883 Dec 10 12:13 PM

Neg. Box 15 Observed by Whitney and Richmond, 1883 Dec 11 12:13 PM

*Notes: "Cloudy"*

Neg. Box 30 Observed by Whitney and Richmond, 1884 Jan 10 12:15 PM

*Notes: "Poor negative – Thermometer 27"*

Neg. Box 30 Observed by Whitney and Richmond, 1884 Jan 16 12:11 PM

*Notes: "Negative poor. Very cold; about 15"*

Neg. Box 30 Observed by Whitney, 1884 Jan 18 [1:30 PM?]

*Notes: "Cloudy"*

Neg. Box 30 Observed by Whitney and Richmond, 1884 Feb 15 12:11 PM

Neg. Box 30 Observed by Whitney and Richmond, 1884 Feb 15 12:09 PM

Neg. Box 13 Observed by Whitney and Deming, 1884 Feb 22 12:22 PM

*Notes: "Poor Focus."*

Neg. Box 30 Observed by Whitney and Deming, 1884 Mar 10 12:12 PM

Neg. Box 30 Observed by Whitney and Gardner, 1884 Mar 16 12:00 PM

Neg. Box 20 Observed by Whitney and Deming, 1884 Mar 25 12:07 PM

*Notes: "Poor negative. Duplicate."*

Neg. Box 32 Observed by Whitney and Deming, 1884 Mar 25 12:17 PM

Neg. Box 32 Observed by Whitney and Deming, 1884 Mar 28 12:12 PM

Neg. Box 32 Observed by Whitney and Deming, 1884 Mar 29 12:28 PM

Neg. Box 32 Observed by Whitney and Deming, 1884 Apr 1 12:21 PM

*Notes: "Poor negative"*

Neg. Box 32 Observed by Whitney and Deming, 1884 Apr 7 12:15 PM

*Notes: "Cloudy – Poorly varnished"*

Neg. Box 32 Observed by Whitney and Deming, 1884 Apr 21 [1:29 PM?]

Neg. Box 32 Observed by Whitney and Wheeler, 1884 Apr 27 10:15 AM

*Notes: "Poor focus"*

Neg. Box 32 Observed by Whitney and Deming, 1884 Apr 29 12:12 PM

*Notes: "Plate fogged."*

Neg. Box 32 Observed by Whitney and Deming, 1884 Apr 30 11:53 AM

*Notes: "Plate fogged."*

Neg. Box 30 Observed by Whitney and Deming, 1884 May 14 11:56 AM

*Notes: "First dry plate used. Considerably fogged."*

Neg. Box 30 Observed by Whitney and Deming, 1884 May 15 12:15 PM

*Notes: "Second dry plate used. Faint negative."*

Neg. Box 30 Observed by Whitney and Deming, 1884 May 19 12:07 PM

Neg. Box 30 Observed by Whitney and Deming, 1884 May 21 12:00 PM

*Notes: "2 Cal (?)"*

Neg. Box 30 Observed by Whitney and Lucas, 1884 May 24 11:45 AM

Neg. Box 30 Observed by Whitney and Gould, 1884 May 28 12:03 PM

*Notes: "Poor."*

Neg. Box 30 Observed by Whitney and Gould, 1884 May 29

*Notes: "Poor."*

Neg. Box 30 Observed by Whitney and Gould, 1884 May 31 12:10 PM

*Notes: "Good"*

Neg. Box 30 Observed by Whitney and Gould, 1884 Jun 2 11:55 AM

Neg. Box 30 Observed by Whitney and Gould, 1884 Jun 4 12:00 PM

Neg. Box 30 Observed by Whitney and Gould, 1884 Jun 5 12:00 PM

Neg. Box 30 Observed by Whitney and Gould, 1884 Jun 7 12:30 PM

Neg. Box 30 Observed by Whitney and Gould, 1884 Jun 9 12:00 PM

*Notes: "Focus Poor."*

Neg. Box 12 Observed by Whitney and Davis, 1884 Oct 1 12:00 PM

*Notes: "Poor focus"*

Neg. Box 11 Observed by Whitney and Davis, 1884 Oct 4 12:00 PM

Neg. Box 11 Observed by Whitney and Davis, 1884 Oct 6 11:10 AM

Neg. Box 11 Observed by Whitney and Davis, 1884 Oct 7 12:05 PM

*Notes: "Vassar College Observatory"*

Neg. Box 12 Observed by Whitney and Davis, 1884 Oct 9 [12:00 PM?]

Neg. Box 12 Observed by Whitney and Davis, 1884 Oct 10 [12:00 PM?]

*Notes: "Show better by reflected light"*

Neg. Box 11 Sunspots, observed by Whitney and Lingle, 1884 Oct 15 12:00 PM

*Notes: "Group of two spots—on following edge. Poor."*

Neg. Box 12 Sunspots, observed by Whitney and Davis, 1884 Oct 17 11:50 AM

*Notes: "Poor—Two spots on following limb—cloudy"*

Neg. Box 12 Sunspots, observed by Whitney and Lingle, 1884 Oct 20 12:00 PM

*Notes: "Poor—Some – in exposure or focus that I do not understand"*

Neg. Box 12 Observed by Whitney and Lingle, 1884 Oct 22 12:00 PM

*Notes: "Poor"*

Neg. Box 12 Observed by Whitney and Lingle, 1884 Oct 24 11:50 AM

*Notes: "Poor"*

Neg. Box 12 Observed by Whitney and Lingle, 1884 Oct 29 12:00 PM

Neg. Box 13 Observed by Whitney and Lingle, 1884 Nov 3 12:00 PM

Neg. Box 32 Observed by Whitney and Lingle, 1884 Nov 6 12:05 PM

*Notes: "Used the full opening of the beam --"*

Neg. Box 32 Observed by Whitney and Davis, 1884 Nov 10 12:15 PM

*Notes: "Used an opening slightly smaller than the full aperture marked a"*

Neg. Box 13 Observed by Whitney and Davis, 1884 Nov 11 12:00 PM

*Notes: "Full aperture "*

Neg. Box 12 Observed by Whitney and Davis, 1884 Nov 13 11:55 AM

Neg. Box 12 Observed by Whitney and Witkowsky, 1884 Nov 14 12:05 PM

*Notes: "Hazy. Full aperture."*

Neg. Box 12 Observed by Whitney and Lingle, 1884 Nov 17 12:00 PM

*Notes: "Full aperture - Position of stand, a-"*

Neg. Box 12 Observed by Whitney and Lingle, 1884 Nov 18 11:47 AM

Neg. Box 3 Observed by Whitney and Lingle, 1884 Nov 21 12:00 PM

*Notes: "Full aperture."*

Neg. Box 30 Observed by Whitney and Lingle, 1884 Nov 22 12:00 AM

*Notes: "Diaphram b - Position b."*

Neg. Box 21 Observed by Whitney and Southworth, 1885

*Notes: "(Oxalal-- developer weak -- and a --)"*

Neg. Box 33 Observed by Whitney and Canfield, 1885 Jan 13 12:00 PM

*Notes: "Thermometer; +5"*

Neg. Box 33 Observed by Whitney and Canfield, 1885 Jan 18 12:05 PM

Neg. Box 33 Observed by Whitney and Canfield, 1885 Feb 1 12:05 PM

Neg. Box 33 Observed by Whitney and Canfield, 1885 Feb 2 12:05 PM

Neg. Box 13 Observed by Whitney and Royce, 1885 Feb 8 12:05 PM

Neg. Box 33 Observed by Whitney and Canfield, 1885 Feb 9 12:04 PM

Neg. Box 33 Observed by Whitney and Wilson, 1885 Mar 4 12:08 PM

*Notes: "Defective plate. (This package of plates is very poor)"*

Neg. Box 33 Observed by Whitney and Wilson, 1885 Mar 4 12:00 PM

*Notes: "Defective plate."*

Neg. Box 33 Observed by Whitney and Witkowsky, 1885 Mar 5 12:08 PM

*Notes: "Position a"*

Neg. Box 33 Observed by Whitney and Wilson, 1885 Mar 6 11:55 AM

Neg. Box 13 Observed by Whitney and Witkowsky, 1885 Mar 14 12:10 PM

*Notes: "Full aperture - position a - poor focus."*

Neg. Box 14 Solar Eclipse, observed by Whitney and Southworth, 1885 Mar 16 [envelope only]

*Notes: "Solar Eclipse"*

Neg. Box 36.20 Solar Eclipse, observed by Whitney and Southworth, 1885 Mar 16

*Notes: "Eclipse no. 2"*

Neg. Box 36.21 Solar Eclipse, observed by Whitney and Witkowsky, 1885 Mar 16

*Notes: "Eclipse no. 3"*

Neg. Box 36.19 Solar Eclipse, observed by Whitney and Witkowsky, 1885 Mar 16

*Notes: "Eclipse no. 4"*

Neg. Box 36.22 Solar Eclipse, observed by Whitney and Witkowsky, 1885 Mar 16

*Notes: "Eclipse no. 5"*

Neg. Box 11 Observed by Whitney and Southworth, 1885 Mar 26 12:08 PM

Neg. Box 11 Observed by Whitney and Southworth, 1885 Mar 28 11:58 AM

*Notes: "Poor. New Belgian plate. Aperture c."*

Neg. Box 11 Observed by Whitney and Southworth, 1885 Mar 30 12:00 PM

*Notes: "-- plate aperture a."*

Neg. Box 33 Observed by Whitney and Canfield, 1885 Apr 1 12:00 PM

Neg. Box 13 Observed by Whitney and Witkowsky, 1885 Apr 9 12:03 PM

*Notes: "Full aperture v. slow movement. Fogged."*

Neg. Box 5 Observed by Whitney and Wilson, 1885 Apr 10 12:04 PM

Neg. Box 13 Observed by Whitney and Southworth, 1885 Apr 16 12:00 PM

Neg. Box 13 Observed by Whitney and Southworth, 1885 Apr 17 11:55 AM

Neg. Box 36.18 Sunspots, observed by Whitney and Davis, 1885 Apr 18 12:30 PM

*Notes: "- plate developer used."*

Neg. Box 13 Observed by Whitney and Davis, 1885 Apr 19 12:00 PM

Neg. Box 13 Observed by Whitney and Southworth, 1885 Apr 20 11:55 AM

Neg. Box 11 Observed by Whitney and Southworth, 1885 Apr 22 11:56 AM

*Notes: "Plate slightly marred."*

Neg. Box 13 Observed by Whitney and Southworth, 1885 Apr 23 11:57 AM

Neg. Box 36.17 Sunspots, observed by Whitney and Southworth, 1885 Apr 24 11:58 AM

*Notes: "Carbutt plate. At Lana developer."*

Neg. Box 13 Observed by Whitney and Southworth, 1885 Apr 25 12:23 PM

Neg. Box 13 Observed by Whitney and Southworth, 1885 Apr 27 11:59 AM

Neg. Box 36.12 Sunspots, observed by Palmer and Davis, 1885 Apr 30 11:58 AM

Neg. Box 5 Observed by Whitney and Southworth, 1885 May 2 11:54 AM

Neg. Box 20 Observed by Whitney and Southworth, 1885 May 6 12:00 PM

*Notes: "Too faint by direct light. Shows well by reflected light."*

Neg. Box 11 Observed by Whitney and Witkowsky, 1885 May 9 12:00 PM

Neg. Box 11 Observed by Whitney and Southworth, 1885 May 15 11:58 AM

Neg. Box 14 Observed by Whitney and Southworth, 1885 May 19 11:48 AM [envelope only]

Neg. Box 11 Observed by Whitney and Baker, 1885 May 21 [1:30 PM?]

Neg. Box 11 Observed by Whitney and Southworth, 1885 May 26 11:58 AM

*Notes: "Hazy."*

Neg. Box 11 Observed by Whitney and Southworth, 1885 May 28 11:58 AM

Neg. Box 5 Observed by Whitney and Buck, 1885 May 29 11:56 AM

Neg. Box 11 Observed by Whitney and Buck, 1885 Jun 1 11:59 AM

*Notes: "Poor"*

Neg. Box 19 Observed by Whitney and Southworth, 1885 Jun 2 11:51 AM [envelope only]

Neg. Box 36.13 Sunspots, observed by Whitney and Macy, 1885 Jun 8 [12:00 PM?]

Neg. Box 5 Observed by Whitney, 1885 Jun 9 [12:00 PM?]

Neg. Box 12 Observed by Whitney and Canfield, 1885 Sep 25 12:13 PM

Neg. Box 12 Observed by Whitney and Canfield, 1885 Sep 28 12:15 PM

Neg. Box 12 Observed by Whitney and Canfield, 1885 Oct 1 [12:00 PM?]

*Notes: "Poor plate very defective."*

Neg. Box 2 Observed by Whitney and Canfield, 1885 Oct 5 11:20 AM

Neg. Box 36.16 Sunspots, observed by Whitney and Canfield, 1885 Oct 9 12:10 PM

Neg. Box 12 Observed by Whitney and Canfield, 1885 Oct 10 12:03 PM

Neg. Box 18 Sunspots, observed by Whitney and Royce, 1885 Oct 17 12:10 PM

*Notes: "Two very small spots precede the large group on following edge."*

Neg. Box 18 Observed by Whitney and Canfield, 1885 Oct 19 12:02 PM

Neg. Box 11 Observed by Whitney and Royce, 1885 Oct 23 12:10 PM

Neg. Box 11 Observed by Whitney and Royce, 1885 Oct 24 12:15 PM

Neg. Box 12 Observed by Whitney and Royce, 1885 Oct 26 12:10 PM

*Notes: "Very defective plate."*

Neg. Box 11 Observed by Whitney and Jenckes, 1885 Oct 27 12:05 PM

Neg. Box 11 Observed by Whitney and Canfield, 1885 Oct 28 [12:00 PM?]

Neg. Box 11 Observed by Whitney and Canfield, 1885 Oct 31 circa 12:00 PM

Neg. Box 12 Observed by Whitney and Canfield, 1885 Oct 31 [12:00 PM?]

*Notes: "Plate defective"*

Neg. Box 11 Observed by Whitney and Canfield, 1885 Nov 2 12:00 PM

Neg. Box 11 Observed by Whitney and Canfield, 1885 Nov 9 1:45 PM?]

Neg. Box 11 Observed by Whitney and Canfield, 1885 Nov 13 11:45 AM

Neg. Box 11 Observed by Whitney and Canfield, 1885 Nov 15 12:20 PM

Neg. Box 11 Observed by Whitney and Royce, 1885 Nov 16 12:00 PM

Neg. Box 11 Observed by Whitney and Canfield, 1885 Nov 17

Neg. Box 11 Observed by Whitney and Canfield, 1885 Nov 20 12:03 PM

Neg. Box 18 Sunspots, observed by Whitney and Canfield, 1885 Dec 2 12:05 PM

*Notes: "A faint group only."*

Neg. Box 18 Observed by Whitney and Canfield, 1885 Dec 11 12:10 PM

*Notes: "Rather poor definition."*

Neg. Box 12 Observed by [unknown], 1885 Dec 15 12:02 PM

Neg. Box 13 Observed by Whitney and Canfield, 1886 Jan 8 12:00 PM

Neg. Box 33 Observed by Whitney and Canfield, 1886 Jan 12 12:00 PM

*Notes: "Very poor – Perhaps Discard. Thermometer, -1"*

Neg. Box 33 Observed by Whitney and Canfield, 1886 Jan 15 12:05 PM

Neg. Box 14 Sunspots, observed by Gardner and Metcalf, 1886 Feb 5  
*Notes: "No spots. On Feb 3 and Feb. 4 no spots could be found. Feb. 8 No spots (plate destroyed)."*

Neg. Box 33 Observed by Whitney and Canfield, 1886 Feb 10 12:05 PM

Neg. Box 33 Sunspots, observed by Whitney and Wilson, 1886 Feb 16 12:10 PM  
*Notes: "One spot close on following edge with faculae and small spots (hardly seen in negative) about - Cloudy"*

Neg. Box 13 Sunspots, observed by Whitney and Wilson, 1886 Feb 18 12:11 PM  
*Notes: "One small group coming in. Poor plate."*

Neg. Box 13 Observed by Whitney and Wilson, 1886 Mar 1 12:00 PM  
*Notes: "Defective plate"*

Neg. Box 33 Observed by Whitney and Wilson, 1886 Mar 3 12:00 PM  
*Notes: "Defective plate."*

Neg. Box 33 Observed by Whitney and Wilson, 1886 Mar 10 12:03 PM

Neg. Box 33 Observed by Whitney and Wilson, 1886 Mar 11 12:03 PM  
*Notes: "Poor - another at 2h, also poor."*

Neg. Box 33 Observed by Whitney and Wilson, 1886 Mar 15 12:00 PM

Neg. Box 13 Observed by Whitney and Wilson, 1886 Mar 16 12:00 PM

Neg. Box 33 Observed by Whitney and Wilson, 1886 Apr 9 12:03 PM

Neg. Box 33 Observed by Whitney and Wilson, 1886 Apr 15 12:03 PM

Neg. Box 33 Observed by Whitney and Wilson, 1886 Apr 16 12:10 PM

Neg. Box 33 Observed by Whitney and Wilson, 1886 Apr 17 11:45 AM

Neg. Box 33 Observed by Whitney and Wilson, 1886 Apr 19 12:00 PM

Neg. Box 33 Observed by Whitney and Bradley, 1886 Apr 22 12:00 PM

Neg. Box 33 Observed by Whitney and Wilson, 1886 Apr 22 12:03 PM

Neg. Box 33 Observed by Whitney and Bradley, 1886 Apr 23 12:07 PM

Neg. Box 33 Observed by [unknown], 1886 May 2 9:15 AM

Neg. Box 2 Sunspots, observed by Whitney and Bradley, 1886 May 3 12:09 PM  
*Notes: "Sun spots"*

Neg. Box 2 Observed by Whitney and Bradley, 1886 May 6 [12:00 PM?]

Neg. Box 33 Observed by Whitney and Bradley, 1886 May 7 11:53 AM

*Notes: "Quite cloudy."*

Neg. Box 33 Observed by Whitney and Bradley, 1886 May 21 11:58 AM

Neg. Box 33 Observed by Whitney and Bradley, 1886 May 28 11:55 AM

Neg. Box 13 Observed by Whitney and Hoffin (?), 1886 May 30 12:00 PM

Neg. Box 13 Observed by Whitney and Bradley, 1886 May 31 12:25 PM

*Notes: "Quite cloudy."*

Neg. Box 13 Observed by Whitney and Bradley, 1886 Jun 1 11:53 AM

Neg. Box 33 Observed by Whitney and Bradley, 1886 Jun 4 11:54 AM

Neg. Box 5 Observed by Whitney and Bradley, 1886 Jun 5 11:45 AM

Neg. Box 25 Observed by Whitney and Bradley, 1886 Jun 8 11:56 AM

*Notes: "Poorly varnished and cracked"*

Neg. Box 21 Observed by Whitney and McCreery, 1886 Oct 5 12:07 PM

Neg. Box 21 Observed by Whitney and Royce, 1886 Oct 6 12:03 PM

Neg. Box 21 Sunspots, observed by Whitney and McCreery, 1886 Oct 8 12:07 PM

*Notes: "Following group - to small spots, hardly seen in negative."*

Neg. Box 21 Sunspots, observed by Whitney and McCreery, 1886 Oct 11 12:07 PM

*Notes: "Poor negative. Two or Three very small spots near middle"*

Neg. Box 21 Observed by Whitney and Maury, 1886 Oct 21 12:05 PM

Neg. Box 21 Observed by Whitney and McCreery, 1886 Nov 16 12:07 PM

Neg. Box 21 Observed by Whitney and Royce, 1886 Dec 11 12:20 PM

Neg. Box 5 Observed by Whitney and McCreery, 1887 Jan 21 12:00 PM

Neg. Box 5 Observed by Whitney and McCreery, 1887 Jan 27 12:49 PM

*Notes: "Poor. A different plate. Not Carbate(?) A."*

Neg. Box 5 Observed by Whitney and McCreery, 1887 Jan 31 12:02 PM

*Notes: "Poor Not -, -."*

Neg. Box 5 Observed by Whitney and McCreery, 1887 Feb 4 12:09 PM  
*Notes: "Poor. One - off. Two on following limb."*

Neg. Box 5 Sunspots, observed by Whitney and McCreery, 1887 Feb 17 12:15 PM  
*Notes: "1 p, 1 very small [illegible] 2 spots"*

Neg. Box 21 Observed by Whitney and Poppenheim, 1887 Feb 25 [12:00 PM?]

Neg. Box 5 Observed by Whitney and Poppenheim, 1887 Mar 19 12:00 PM

Neg. Box 21 Sunspots, observed by Whitney and Poppenheim, 1887 Mar 27 12:05 PM  
*Notes: "Three very small spots two of which can be seen in negative."*

Neg. Box 5 Sunspots, observed by Whitney and Poppenheim, 1887 Apr 20 12:10 PM  
*Notes: "Poor plate. Two spots over limb."*

Neg. Box 5 Sunspots, observed by Whitney and Poppenheim, 1887 Apr 21 12:08 PM  
*Notes: "Poor plate. One round spot."*

Neg. Box 5 Observed by Whitney and Poppenheim, 1887 Apr 22 12:17 PM

Neg. Box 21 Observed by Poppenheim and Whitney, 1887 Apr 25 12:20 PM

Neg. Box 18 Observed by Whitney and Poppenheim, 1887 Apr 27 12:20 PM

Neg. Box 18 Observed by Whitney and Poppenheim, 1887 May 2 12:20 PM

Neg. Box 18 Observed by Poppenheim and Lewi, 1887 May 5

Neg. Box 18 Observed by Poppenheim and Lewi, 1887 May 9 11:59 AM

Neg. Box 21 Observed by Whitney and Poppenheim, 1887 May 10 12:20 PM  
*Notes: "Plate at first exposure had fallen out of place—Therefore a second exposure was made."*

Neg. Box 21 Observed by Poppenheim and Lewi, 1887 May 11 12:00 PM  
*Notes: "Poorly varnished."*

Neg. Box 18 Observed by Whitney and Palmer, 1887 May 13 12:15 PM  
*Notes: "Poor plate---also fogged."*

Neg. Box 6 Sunspots, observed by Gardner and Hagard, 1887 May 15 12:20 PM  
*Notes: "A large spot on the western limb. On May 16 the spot was preceded by a very faint spot which was not seen on May 15. - May 19 a large spot was seen coming on. Clouds preventing observations from May 19 to May 24. When(?) a group of many small spots was seen near the(?) center. The spot seen May 19 had probably broken up and formed this group - On May 26 this group was --- on the western limb but was then very faint. - May 27. The group could not be found. - May 28-31 no spots (Plate destroyed) - June [1-2, 20] no spots (plates destroyed)"*

Neg. Box 18 Observed by Poppenheim and Lowe, 1887 May 17 12:00 PM

Neg. Box 18 Observed by Poppenheim and Lewi, 1887 May 18 12:00 PM

*Notes: "New kind of plate. Eagle—Hazy."*

Neg. Box 12 Observed by Poppenheim and Lewi, 1887 May 19

Neg. Box 18 Observed by Whitney and Palmer, 1887 May 20 12:10 PM

Neg. Box 18 Observed by Whitney and Palmer, 1887 May 21 12:00 PM

Neg. Box 18 Observed by Palmer and Greene, 1887 Nov 12 12:13 PM

*Notes: "Poor, branches of trees."*

Neg. Box 6 Sunspots, observed by Spalding, 1887 Dec 3 12:04 PM

*Notes: "Large spot going off on ----- second seen."*

Neg. Box 12 Observed by Palmer and Gates, 1887 Dec 16 12:20 PM

*Notes: "Fault in varnish."*

Neg. Box 18 Observed by Palmer and Gates, 1887 Dec 19 12:08 PM

Neg. Box 5 Observed by Palmer and Davis, 1888 Jan 18 12:12 PM

Neg. Box 25 Observed by Palmer and Whitney, 1888 Feb 23 12:10 PM

Neg. Box 25 Observed by Palmer and Whitney, 1888 Feb 24 12:08 PM

Neg. Box 25 Observed by Palmer and Brown, 1888 Mar 9 12:12 PM

Neg. Box 25 Observed by Palmer and Whitney, 1888 Mar 10 12:10 PM

Neg. Box 25 Observed by Palmer and Brown, 1888 Mar 16 12:06 PM

Neg. Box 25 Observed by Palmer and Brown, 1888 Mar 17 12:07 PM

Neg. Box 25 Observed by Palmer and Brown, 1888 Mar 19 12:00 PM

Neg. Box 25 Observed by Palmer and Brown, 1888 Apr 26 12:02 PM

Neg. Box 25 Observed by Palmer and Greene, 1888 Apr 27 12:02 PM

*Notes: "Hazy."*

Neg. Box 25 Observed by Palmer and Brown, 1888 May 14 11:59 AM

*Notes: "Fault in varnishing."*

Neg. Box 24 Observed by Palmer and Tunnicliff, 1888 May 17 12:14 PM

*Notes: "Fault in varnishing."*

Neg. Box 24 Observed by Palmer and Greene, 1888 May 19 12:08 PM

Neg. Box 33 Observed by Palmer and Tunnicliff, 1888 May 21 12:14 PM

Neg. Box 24 Observed by Palmer and Tunnicliff, 1888 May 22 12:10 PM

*Notes: "Fault in closing aperture."*

Neg. Box 24 Observed by Palmer and Mace, 1888 Jun 8 12:12 PM

*Notes: "Fault in varnishing."*

Neg. Box 25 Sunspots, observed by Hodge and Bush, 1888 Oct 14 12:15 PM

*Notes: "The large group of spots which appeared Oct. 13 is photographed with faculae. A smaller group has just come on the Sun."*

Neg. Box 24 Sunspots, observed by Whitney and Mace, 1888 Nov 1 12:00 PM

*Notes: "No spot – Taken for practice."*

Neg. Box 36.26 Sunspots, observed by Whitney and Mace, 1888 Nov 7 circa 12:15 PM

*Notes: "Tree interfered"*

Neg. Box 24 Observed by Whitney and Mace, 1888 Nov 7 12:00 PM

*Notes: "Duplicate"*

Neg. Box 24 Observed by Whitney and Mace, 1888 Nov 13 circa 12:30 PM

*Notes: "Duplicate"*

Neg. Box 24 Observed by Whitney and Mace, 1888 Nov 13 circa 11:00 AM

Neg. Box 24 Observed by Mace and Whitney, 1888 Nov 15 12:00 PM

Neg. Box 24 Observed by Mace and Kavana, 1888 Nov 17 [12:12 PM?]

Neg. Box 24 Observed by Mace and Kavana, 1888 Nov 20 12:35 PM

*Notes: "Duplicate"*

Neg. Box 36.11 Sunspots, observed by Mace and Whitney, 1888 Nov 20 10:35 AM

Neg. Box 24 Observed by Mace and Furness, 1888 Nov 21 12:00 PM

Neg. Box 24 Sunspots, observed by Mace and Kavana, 1888 Nov 22 12:05 PM

*Notes: "Spot just passing off."*

Neg. Box 24 Observed by Mace and Furness, 1888 Nov 28 11:50 AM

Neg. Box 5 Observed by Whitney and Kavanna, 1888 Nov 30 12:00 PM

*Notes: "Plate fell out of supports"*

Neg. Box 5 Observed by Whitney and Kavanna, 1888 Dec 1 12:00 PM  
*Notes: "Cloudy Plate fogged. Pyro developer used."*

Neg. Box 5 Observed by Whitney and Kavanna, 1888 Dec 1 11:00 AM  
*Notes: "Pyro developer used. Poor plate."*

Neg. Box 24 Observed by Whitney and Mace, 1888 Dec 5 circa 12:15 PM

Neg. Box 5 Observed by Mace and Furness, 1888 Dec 7 12:35 PM

Neg. Box 5 Observed by Mace and Kavana, 1888 Dec 15 12:05 PM

Neg. Box 5 Observed by Mace and Kavana, 1888 Dec 19 12:05 PM

Neg. Box 24 Observed by Mace and Kavana, 1889 Jan 16 12:20 PM  
*Notes: "Duplicate"*

Neg. Box 24 Sunspots, observed by Mace and Kavana, 1889 Jan 16 [12:12 PM?]  
*Notes: "Sun very hazy"*

Neg. Box 18 Sunspots, observed by Mace and Kavana, 1889 Feb 1 12:05 PM  
*Notes: "No. 2"*

Neg. Box 18 Sunspots, observed by Mace and Whitney, 1889 Feb 22 circa 12:30 PM  
*Notes: "A very small spot follows the larger one."*

Neg. Box 18 Sunspots, observed by Mace and Furness, 1889 Feb 25 12:03 PM  
*Notes: "Hazy. Three spots."*

Neg. Box 21 Observed by Whitney and Mace, 1889 Mar 1 11:58 AM

Neg. Box 21 Observed by Mace and [unknown], 1889 Mar 6 12:05 PM

Neg. Box 21 Observed by Mace and Kavana, 1889 Mar 12 12:01 PM

Neg. Box 21 Observed by Whitney and Mace, 1889 Mar 14 11:58 AM

Neg. Box 21 Sunspots, observed by Whitney and Poppenheim, 1889 Mar 31 12:03 PM  
*Notes: "Small group, 3."*

Neg. Box 18 Sunspots, observed by Whitney and Mace, 1889 Apr 11  
*Notes: "Spot on following edge. Hazy."*

Neg. Box 21 Sunspots, observed by Whitney and Poppenheim, 1889 Apr 22 12:07 PM  
*Notes: "Duplicate"*

Neg. Box 18 Sunspots, observed by Whitney and Mace, 1889 May 6 12:30 P.M.

*Notes: "Slightly hazy."*

Neg. Box 20 Sunspots, observed by Whitney and Mace, 1889 May 8 [12:12 PM?]

*Notes: "Negatives developed by Vail."*

Neg. Box 18 Sunspots, observed by Whitney and Lewi, 1889 May 16 12:08 PM

*Notes: "Good—group has disappeared since Saturday—Defect in varnishing."*

Neg. Box 24 Observed by Mace and Kavana, 1889 Dec 6 11:58 AM

*Notes: "Used 1 oz. Pyro. Poor plate."*

Neg. Box 21 Observed by Whitney and Canfield, 1889 Dec 14 12:20 PM

Neg. Box 24 Observed by Whitney and Furness, 1890 Nov 24 12:03 PM

Neg. Box 24 Observed by Whitney and Furness, 1890 Nov 25 12:30 PM

*Notes: "Carbutt. 'A' fail's developer"*

Neg. Box 24 Observed by Whitney and Furness, 1890 Nov 27 12:00 PM

*Notes: "Duplicate"*

Neg. Box 12 Observed by Whitney and Furness, 1890 Nov 28 11:03 AM

*Notes: "Duplicate"*

Neg. Box 24 Observed by Whitney and Furness, 1890 Nov 28 [12:12 PM?]

Neg. Box 11 Observed by Whitney and Furness, 1890 Nov 29

Neg. Box 24 Observed by Whitney and Furness, 1890 Nov 29

Neg. Box 21 Sunspots, observed by Mace and [unknown], [no year] Feb 24 [12:12 PM?]

*Notes: "Spots almost invisible. Perhaps reject."*

Neg. Box 23 Sunspots, observed by Hodge and Wentworth, [no year] Mar 18 11:45 AM

*Notes: "No spots. There is something which looks very much like a spot toward the middle."*

Neg. Box 28 Observed by Lupton and Arnold, [no year] May 21

*Notes: "6. Apparently of doubtful date."*

Neg. Box 3 Jupiter, observed by [unknown], undated

*Notes: "Poor Jupiter negative"*

Neg. Box 14 Saturn, observed by [unknown], undated **[envelope only]**

*Notes: "Saturn negative"*

Neg. Box 3 Jupiter, observed by [unknown], undated **[envelope only]**

*Notes: "Good Jupiter Negative"*

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