



Smithsonian Institution Archives

Charles G. Abbot Papers, and Records of the
Smithsonian Astrophysical Observatory, 1889-1973

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Smithsonian Institution Archives
Washington, D.C.
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Collection Overview

Repository:	Smithsonian Institution Archives, Washington, D.C., osiaref@si.edu
Title:	Charles G. Abbot Papers, and Records of the Smithsonian Astrophysical Observatory
Identifier:	Record Unit 7005
Date:	1889-1973
Extent:	117.23 cu. ft. (3 record storage boxes) (205 document boxes) (4 16x20 boxes) (2 3x5 boxes) (1 tall document box) (2 18x24 boxes) (3 microfilm reels)
Creator::	Abbot, C. G. (Charles Greeley), 1872-1973
Language:	English

Administrative Information

Preferred Citation

Smithsonian Institution Archives, Record Unit 7005, Charles G. Abbot Papers, and Records of the Smithsonian Astrophysical Observatory

Access Restriction

Series 4 partially microfilmed.

Historical Note

Charles G. Abbot (1872-1973), the fifth Secretary of the Smithsonian Institution, came to the Institution in 1895 as an assistant to Secretary Samuel P. Langley in the Smithsonian Astrophysical Observatory (SAO). In 1906 he was named Director of the Astrophysical Observatory, a position which he held until his retirement in 1944. He became an Assistant Secretary of the Institution in 1918, and served as Secretary from 1928 to 1944. Most of Dr. Abbot's research centered around studies of solar radiation and attempts to determine the relationship between solar variations and the earth's weather.

Descriptive Entry

These papers consist mainly of records of the Astrophysical Observatory (also abbreviated APO) under the Directorship of Samuel P. Langley, Charles G. Abbot, and Loyal Blaine Aldrich.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Astronomy
- Astrophysics
- Solar activity
- Solar radiation

Types of Materials:

- Black-and-white photographs
- Manuscripts

Names:

- Abbot, C. G. (Charles Greeley), 1872-1973
- Aldrich, Loyal Blaine, 1884-1965
- Langley, S. P. (Samuel Pierpont), 1834-1906
- Mount Montezuma Station (Calama, Chile)
- Smithsonian Astrophysical Observatory
- Smithsonian Institution
- Smithsonian Institution. Office of the Secretary
- Table Mountain Station (California)

Container Listing

Series 1: ASTROPHYSICAL OBSERVATORY CORRESPONDENCE, CIRCA 1920-1955.

Box 1

- Box 1 of 215 Folder 1 Additional Observing Stations 1936; 1944. Concerns possible Stations for solar constant research; also discussions of a Bill in Congress which would appropriate money for research in this area.
- Box 1 of 215 Folder 2 Ad - Aq
- Box 1 of 215 Folder 3 Agriculture, Dept. of, 1926-1955. Concerns interest in climatic cycles and long range forecasts.
- Box 1 of 215 Folder 4 Apparatus
- Box 1 of 215 Folder 5 Apparatus - Old Letters. Contains two important papers: "The Adjustment of the Spectro-galometer" and "Report on Methods of Correcting the Mercurial Barometer for the Influence of Gravity, 1946."
- Box 1 of 215 Folder 6 Arctowski, Henry K., 1926-1953 (meteorologist & staff member of Smithsonian Institution). Includes correspondence with Aldrich, Wetmore, & Abbot.
- Box 1 of 215 Folder 7 Assistants - Observing Stations A-J (Job Applications - Not necessarily accepted as assistant)
- Box 1 of 215 Folder 8 Assistants - Observing Stations K-W (Job Applications - Not necessarily accepted as assistant)
- Box 1 of 215 Folder 9 Astrophysical Journal, 1942

Box 2

- Box 2 of 215 Folder 1 Astrophysical Observatory Papers - Budget Matters, 1949 (Reports, progress & expenses of APO)
- Box 2 of 215 Folder 2 Astrophysical Observatory Papers - Budget Matters, 1949
- Box 2 of 215 Folder 3 Astrophysical Observatory, 1950 - Budget Matters, Papers, Reports, Plan of Operation

Box 2 of 215	Folder 4 Astrophysical Observatory - Bibliography
Box 2 of 215	Folder 5 Ar - As
Box 2 of 215	Folder 6 As
Box 2 of 215	Folder 7 Bab - Ban
Box 2 of 215	Folder 8 Baker & Co., Inc., 1927-1951. Orders of wire & metal strips for equipment.
Box 2 of 215	Folder 9 Bao - Baz
Box 2 of 215	Folder 10 Banerji, B. N., 1938-1946
Box 2 of 215	Folder 11 Bathgate, E., 1933-1934 (Dept. of Commerce, U. S. Coast & Geodetic Survey)
Box 2 of 215	Folder 12 Bausch & Lomb Optical Co., 1927-1928
Box 3	
Box 3 of 215	Folder 1 Bea - Bel
Box 3 of 215	Folder 2 Bell & Gossett Co.
Box 3 of 215	Folder 3 Bem - Ben
Box 3 of 215	Folder 4 Bernhermer, Walter E., 1926-1936
Box 3 of 215	Folder 5 Ber - Bez
Box 3 of 215	Folder 6 Bi
Box 3 of 215	Folder 7 Bj - Bl. Includes letter from L. W. Blau (March 24, 1952) with monthly means of the solar constant from 1920-1950.
Box 3 of 215	Folder 8 Boa - Bol
Box 3 of 215	Folder 9 Bongards, H., 1924-1925 (did Atmospheric research in Germany)
Box 3 of 215	Folder 10 Bonnet, G., 1951

- Box 3 of 215 Folder 11 Bon - Bot
- Box 3 of 215 Folder 12 Boston Gear Works, 1929-1951
- Box 3 of 215 Folder 13 Bon - Boz
- Box 3 of 215 Folder 14 Bra
- Box 3 of 215 Folder 15 Bre - Bri
- Box 3 of 215 Folder 16 Bro - Bry
- Box 3 of 215 Folder 17 Brooks, Charles F., 1927-1944 (meteorologist)
- Box 3 of 215 Folder 18 Browne, Herbert Janvrin, 1929-1935 (meteorologist - researched variations of weather & solar constant)
- Box 4
- Box 4 of 215 Folder 1 Budget Bureau, 1951-1954
- Box 4 of 215 Folder 2 Budget, FY 1951-1952. Includes discussions of APO program & budget.
- Box 4 of 215 Folder 3 Burton, L. V., 1932-1946 (Editor of McGraw Hill Publishing Co. and interested in 23 year weather cycle)
- Box 4 of 215 Folder 4 Butler, C. Preston, 1936-1954 (staff member of APO at Montezuma - later went to Naval Research Lab)
- Box 4 of 215 Folder 5 Bu
- Box 4 of 215 Folder 6 By
- Box 4 of 215 Folder 7 Camp Detrick - Chemical Corps. Contains "Quarterly Progress Report of Research" carried out by the Division of Radiation & Organisms of the Smithsonian Institution (S.I.)
- Box 4 of 215 Folder 8 Caa - Can. Includes calibration sheet for Silver Disk Pyrheliometer, and correspondence with the California Institute of Technology 1934, 1938-1939; California, University of, 1952-1954; Campbell, Gilbert L, 1944 (University of Missouri).
- Box 4 of 215 Folder 9 Cap - Caz. Includes correspondence with the Carrier Corporation - concerned with intensity of solar radiation transmitted through window glass.

Box 4 of 215 Folder 10 Carnegie Institution, 1922-1937. Relates climate cycles with sunspot & solar constant cycles.

Box 4 of 215 Folder 11 Ce

Box 5

Box 5 of 215 Folder 1 Cha. Includes Chaudet, Enrigus - Paper on Silver Disk Pyrheliometry 1944.

Box 5 of 215 Folder 2 Che - Chi

Box 5 of 215 Folder 3 Cho - Chy

Box 5 of 215 Folder 4 Ci

Box 5 of 215 Folder 5 Clayton, H. H., 1923 (had private Weather Bureau of about 100 clients & S. I. furnished him solar constants & sun spot data which he used in long range forecasting)

Box 5 of 215 Folder 6 Clayton, H. H., 1924

Box 5 of 215 Folder 7 Clayton, H. H., 1925

Box 5 of 215 Folder 8 Clayton, H. H., 1926. Includes letter to Prof. Dobson of Oxford about ozone measurements.

Box 5 of 215 Folder 9 Clayton, H. H., 1927

Box 5 of 215 Folder 10 Clayton, H. H., 1928

Box 5 of 215 Folder 11 Clayton, H. H., 1929

Box 6

Box 6 of 215 Folder 1 Clayton, H. H., 1930. Includes pamphlet by Capt. Lawrence Clayton concerning research on types of harmonic analyzers & synthesizers.

Box 6 of 215 Folder 2 Clayton, H. H., 1931

Box 6 of 215 Folder 3 Clayton, H. H., 1932-1934

Box 6 of 215 Folder 4 Clayton, H. H., 1935-1937

- Box 6 of 215 Folder 5 Clayton, H. H., 1938-1941
- Box 6 of 215 Folder 6 Clayton, H. H., 1942-1946
- Box 6 of 215 Folder 7 Clayton, Frances L. (Miss). Includes letter of October 31, 1946 mentioning H. H. Clayton's death on previous Sunday.
- Box 6 of 215 Folder 8 Clements, F. E. (received solar constants from APO)
- Box 6 of 215 Folder 9 Ci
- Box 6 of 215 Folder 10 Cob - Coi. Includes correspondence from Coblentz, W. W. regarding ozone absorption.
- Box 6 of 215 Folder 11 Col. Collier's Readers Research Bureau, 1936-1951.
- Box 7
- Box 7 of 215 Folder 1 Congressional Bills
- Box 7 of 215 Folder 2 Com - Coo. Includes Commonwealth Experimental Building Station (Australia) brochure "Sunshine & Shade in Australia."
- Box 7 of 215 Folder 3 Cor. Includes Correspondence Style Manual.
- Box 7 of 215 Folders 4-5 Congressional Records
- Box 7 of 215 Folder 6 Corn Industries, 1936-1945. APO sent Temperature & precipitation values to them.
- Box 7 of 215 Folder 7 Corning Glass Works, 1927-1950
- Box 7 of 215 Folder 8 Correspondence & Records. Includes a few shipping invoices.
- Box 7 of 215 Folder 9 Cos - Cot
- Box 7 of 215 Folder 10 Cottrell, F. G., 1928-1929. Contains article dealing with Ultraviolet Intensity of a Light Source.
- Box 7 of 215 Folder 11 Cou - Cov
- Box 7 of 215 Folder 12 Cramer Dry Plate Co., 1929-1939. Includes bids on photographic plates.

Box 7 of 215	Folder 13 Cr
Box 7 of 215	Folder 14 Cu - Cz
	Box 8
Box 8 of 215	Folder 1 Dab - Dai
Box 8 of 215	Folder 2 Dal - Dap
Box 8 of 215	Folder 3 Damon, John C.
Box 8 of 215	Folder 4 Dar - Dat
Box 8 of 215	Folder 5 Dau - Day
Box 8 of 215	Folder 6 DeAtley, C. E.
Box 8 of 215	Folder 7 Dea - Ded
Box 8 of 215	Folder 8 Dee - Dei
Box 8 of 215	Folder 9 Del - Dep
Box 8 of 215	Folder 10 Dept. of Terrestrial Magnetism, 1921-1945. Concerns correlations between magnetic & solar phenomena (May 7, 1926).
Box 8 of 215	Folder 11 Despatch Oven Co., 1951
Box 8 of 215	Folder 12 Der - Dey
Box 8 of 215	Folder 13 Draz, Emelis, 1933-1940 (studied dependence of weather on solar variation)
Box 8 of 215	Folder 14 Di. Includes Dietz, E. F. booklet on "The Fading of Cosmic Light" (his new theory for Red Shift).
Box 8 of 215	Folder 15 Doa - Dop. Includes Conworth, Albert B. booklet on "Explanation of Gravitation."
Box 8 of 215	Folder 16 Dobson, G. N. B., 1923-1928 (studied Ozone quantities in atmosphere)

- Box 8 of 215 Folder 17 Dobson, G. N. B., 1929
- Box 8 of 215 Folder 18 Dor - Dox. Includes Douglas, A. E. (Director of Laboratory of Tree Ring Research University of Arizona) correlation of tree growth & solar phenomena strengthens Clayton's views that solar variation is main factor in weather.
- Box 8 of 215 Folder 19 Dr
- Box 8 of 215 Folder 20 Dua - Dul
- Box 8 of 215 Folder 21 DuPont DeNemours & Co.
- Box 8 of 215 Folder 22 Dum - Duy
- Box 8 of 215 Folder 23 Dw - Dy

Box 9

- Box 9 of 215 Folder 1 Eastman Kodak Co., 1931-1949. Includes bids on photographic plates.
- Box 9 of 215 Folder 2 Ea - Ec
- Box 9 of 215 Folder 3 Edward, W. E. - Perpetual Calender. Includes proposition of a new calendar.
- Box 9 of 215 Folder 4 Editor, 1931-1953. Correspondence concerning printings of Annals, Meteorological Tables, Secretary's Report to Board of Regents, etc.
- Box 9 of 215 Folder 5 Editor, 1954. Includes list of assistants who helped prepare 9th Edition of Smithsonian Physical Tables.
- Box 9 of 215 Folder 6 Ed - Eh
- Box 9 of 215 Folder 7 Ei. Includes correspondence with Eimer & Amend (S. I. purchased chemicals from them).
- Box 9 of 215 Folder 8 Ei - Em. Includes Elder, James booklet "Atomic Basis for the Relationships Between the Properties of Gases;" and an Electron Reflectoscope description.
- Box 9 of 215 Folder 9 England Meteorological office. Correspondence with Dr. Simpson (studied water vapor absorption).

- Box 9 of 215 Folder 10 En - Ep
- Box 9 of 215 Folder 11 Eppley Laboratory, Inc.
- Box 9 of 215 Folder 12 Esser, Theodore (deals with geometric circle transformations)
- Box 9 of 215 Folder 13 Er - Et
- Box 9 of 215 Folder 14 Eu - Ev
- Box 9 of 215 Folder 15 Ew - Ey. Includes correspondence with Ewert, W. C. (Magnetic Field Theory).
- Box 10
- Box 10 of 215 Folder 1 Fabry, Charles, 1923-1930. Includes method of measuring amount of ozone in the atmosphere (reasonable accuracy).
- Box 10 of 215 Folder 2 Fairclough, Norman, 1929-1930, 1932
- Box 10 of 215 Folder 3 Farr Co., 1935-1943
- Box 10 of 215 Folder 4 Fa
- Box 10 of 215 Folder 5 Fecker, J. W. (Optical Equipment) 1930-1947
- Box 10 of 215 Folder 6 Ferraz, J. de Sampaio, 1927-1953 (Meteorologist interested in sunspot & solar constant correlation)
- Box 10 of 215 Folder 7 Fe
- Box 10 of 215 Folder 8 Fiscal Division
- Box 10 of 215 Folder 9 Fisher. Includes Fisher, Joel E. paper, "The Shift to the Red in the Spectra of Stars Considered as an Effect of Gravity."
- Box 10 of 215 Folder 10 Fi. Includes Fish - Schurman Corporation, 1931-1949.
- Box 10 of 215 Folder 11 Fi
- Box 10 of 215 Folder 12 Foundation for Study of Cycles, 1937-1950. Includes brochure "Putting Cycles to Work in Science & Industry."

Box 10 of 215 Folder 13 Fowle, F. E., 1923-1941 (studied absorption of radiation by water vapor & ozone). Includes corrections for systematic errors in short method observations, 1923.

Box 10 of 215 Folder 14 Fo. Correspondents include Forsythe, W. E., 1926-1934.

Box 10 of 215 Folder 15 France

Box 10 of 215 Folder 16 Freeman, Hugh B., 1928-1938

Box 10 of 215 Folder 17 Friez, Julius P. & Sons, 1926-1948

Box 10 of 215 Folder 18 Fritsch, Joe

Box 10 of 215 Folder 19 Fr

Box 10 of 215 Folder 20 Funds

Box 11

Box 11 of 215 Folder 1 Future Policies Committee

Box 11 of 215 Folder 2 Fu - Fy

Box 11 of 215 Folder 3 Gaertner Scientific Corp., 1931-1949

Box 11 of 215 Folder 4 Ganong, W. K., 1940-1950

Box 11 of 215 Folder 5 Gast, P. R., 1954-1955

Box 11 of 215 Folder 6 Ga

Box 11 of 215 Folder 7 Gea - Gel

Box 11 of 215 Folder 8 General Electric Co., 1926-1932

Box 11 of 215 Folder 9 General Electric Co., 1933-1954

Box 11 of 215 Folder 10 Gem - Gen

Box 11 of 215 Folder 11 Geo - Gh

Box 11 of 215 Folder 12 Gia - Gik. Correspondents include Giclas, H. L. (Lowell Observatory - supplied with solar constant values).

Box 11 of 215 Folder 13 Gillette, H. P., 1927-1945

Box 11 of 215 Folder 14 Gil

Box 11 of 215 Folder 15 Gim - Giz

Box 11 of 215 Folder 16 Gl

Box 11 of 215 Folder 17 Goa - Gol

Box 11 of 215 Folder 18 Gom - Goz. Includes Gotz, F. W. P., 1949 - List of High & Low Values of Solar Constant.

Box 12

Box 12 of 215 Folder 1 Graf, John E.

Box 12 of 215 Folder 2 Gra

Box 12 of 215 Folder 3 Greeley, F. A., 1936-1952

Box 12 of 215 Folder 4 Gre - Gri

Box 12 of 215 Folder 5 Gro - Gry

Box 12 of 215 Folder 6 Gurley, Wand L. E.

Box 12 of 215 Folder 7 Gu - Gy

Box 12 of 215 Folder 8 Hab - Hal

Box 12 of 215 Folder 9 Hale, George E., 1920-1935 (of Mt. Wilson Observatory)

Box 12 of 215 Folder 10 Hammer Dry Plate Co., 1932-1939. Concerns photographic plates.

Box 12 of 215 Folder 11 Hand, I. F., 1939-1953 (concerned with pyrheliometry)

Box 12 of 215 Folder 12 Ham - Hap

- Box 12 of 215 Folder 13 Harvard College Observatory, 1929-1955. Includes correspondence with Dr. Harlow Shapley.
- Box 12 of 215 Folder 14 Harvard High Altitude Observatory, 1948-1953
- Box 12 of 215 Folder 15 Haskin Service, 1940-1953
- Box 12 of 215 Folder 16 Har - Has. Correspondents include Harshaw Chemical Co., 1937-1950; and Hart Wright Co., 1937, 1945.
- Box 12 of 215 Folder 17 Hat - Hau
- Box 12 of 215 Folder 18 Hav - Hay
- Box 12 of 215 Folder 19 Hea - Hep
- Box 12 of 215 Folder 20 Her - Hey
- Box 12 of 215 Folder 21 Hilo Observations (Hawaii) 1947-1949
- Box 12 of 215 Folder 22 Hi
- Box 13
- Box 13 of 215 Folder 1 Hoen, A & Co.
- Box 13 of 215 Folder 2 Hoa - Hol
- Box 13 of 215 Folder 3 Hoover, W. H., 1937-1953. Includes SS Factors for Tyrone station, June 7, 1941. These are correction factors for absorption of apparatus.
- Box 13 of 215 Folder 4 Hom - Hor
- Box 13 of 215 Folder 5 Hoxmark, G., 1930-1954
- Box 13 of 215 Folder 6 Hos - Hoz
- Box 13 of 215 Folder 7 Hull, Frank R., 1939-1944
- Box 13 of 215 Folder 8 Hu
- Box 13 of 215 Folder 9 Hy

Box 13 of 215	Folder 10 lc - lm
Box 13 of 215	Folder 11 Indian Meteorological Department
Box 13 of 215	Folder 12 Information Reports to Defense Agencies
Box 13 of 215	Folder 13 Ina - Ins
Box 13 of 215	Folder 14 Insurance Policies
Box 14	
Box 14 of 215	Folder 1 International Radiation Commission, 1933-1935
Box 14 of 215	Folder 2 International Radiation Commission, 1936
Box 14 of 215	Folder 3 International Radiation Commission, 1937. Includes letter to W. Morekofer from Abbot explaining corrections of readings of pyrhelimeters. Also mentions calibration sheet for every pyrhelimeter for correcting for nonuniformity of the bore of thermometer.
Box 14 of 215	Folder 4 Int
Box 14 of 215	Folder 5 Ir - Iv
Box 14 of 215	Folder 6 Jatho, A., 1934-1936
Box 14 of 215	Folder 7 Ja
Box 14 of 215	Folder 8 Je
Box 14 of 215	Folder 9 Jones, Inigo, 1926-1935 (Long Range Weather Forecaster)
Box 14 of 215	Folder 10 Jones, Inigo, 1937-1952
Box 14 of 215	Folder 11 Jo
Box 15	
Box 15 of 215	Folder 1 Kahler, M. E., 1928-1936
Box 15 of 215	Folder 2 Ka

Box 15 of 215	Folder 3 Kea - Kel
Box 15 of 215	Folder 4 Keddy, John L., 1946-1957
Box 15 of 215	Folder 5 Keuffel & Esser Co.
Box 15 of 215	Folder 6 Kew Observatory, 1929
Box 15 of 215	Folder 7 Kem - Key
Box 15 of 215	Folder 8 Keys, Ancel, 1934, 1936
Box 15 of 215	Folder 9 Ki
Box 15 of 215	Folder 10 Ku - Kl
Box 15 of 215	Folder 11 Knox, Shaw H., 1926
Box 15 of 215	Folder 12 Kn - Ko
Box 15 of 215	Folder 13 Kr
Box 15 of 215	Folder 14 Ku - Ky
Box 15 of 215	Folder 15 LaFontaine, William, 1931-1942
Box 15 of 215	Folder 16 Lab - Lam
Box 15 of 215	Folder 17 LaQuiaca Observatoria Heliofisico, 1926-1929
Box 15 of 215	Folder 18 Lan - Lar
Box 15 of 215	Folder 19 Las - Laz
Box 15 of 215	Folder 20 Leeds & Northrop, 1931-1951
Box 15 of 215	Folder 21 Lea - Leg
Box 15 of 215	Folder 22 Leh - Lez
Box 15 of 215	Folder 23 Library
Box 15 of 215	Folder 24 Linke, Franz, 1932-1938

Box 15 of 215 Folder 25 Li - Ll

Box 15 of 215 Folder 26 Loa - Lon

Box 15 of 215 Folder 27 Loo - Loz

Box 15 of 215 Folder 28 Lu - Ly

Box 15 of 215 Folder 29 M

Box 16

National Geographic Station: Abbot, C. G. to National Geographic Society, 1927-1932 (Station is "Mt. Brukkaros"). Concerns getting ready & set-up of this station, and Hoover & Sordhal progress, etc.

Box 16 of 215 Folder 1 National Geographic Station: Abbot, C. G., 1925-1926

Box 16 of 215 Folder 2 National Geographic Station: Bausch & Lomb Optical Co., 1925-1926

Box 16 of 215 Folder 3 National Geographic Station: B

Box 16 of 215 Folder 4 National Geographic Station: Coleman Lamp Co., 1925-1929

Box 16 of 215 Folder 5 National Geographic Station: Cook, Thomas & Son, 1925-1929

Box 16 of 215 Folder 6 National Geographic Station: C, 1925

Box 16 of 215 Folder 7 National Geographic Station: Dryden, A., 1926-1927

Box 16 of 215 Folder 8 National Geographic Station: D

Box 16 of 215 Folder 9 National Geographic Station: Electric Refrigeration Corp.

Box 16 of 215 Folder 10 National Geographic Station: E

Box 16 of 215 Folder 11 National Geographic Station: Froiland, A. G.

Box 16 of 215 Folder 12 National Geographic Station: Includes F. Friez, Julien P. & Sons, order for Barograph, July 31, 1925 to go to Brukkaros.

Box 16 of 215 Folder 13 National Geographic Station: Gaertner Scientific Corp., 1925-1926

Box 16 of 215 Folder 14 National Geographic Station: Greeley, F. A., 1926-1928

Box 16 of 215 Folder 15 National Geographic Station: G

Box 16 of 215 Folder 16 National Geographic Station: Hoover, W. H., 1925-1926

Box 16 of 215 Folder 17 National Geographic Station: Hoover, W. H., 1927

Box 16 of 215 Folder 18 National Geographic Station: Hoover, W. H., 1928-1929. Includes some Cloud Data.

Box 16 of 215 Folder 19 National Geographic Station: H

Box 16 of 215 Folder 20 National Geographic Station: I

Box 16 of 215 Folder 21 National Geographic Station: J

Box 16 of 215 Folder 22 National Geographic Station: K. Includes Keuffel & Esser Co., 1925-1926.

Box 16 of 215 Folder 23 National Geographic Station: L

Box 16 of 215 Folder 24 National Geographic Station: M

Box 16 of 215 Folder 25 National Geographic Station: National Geographic Society, 1925-1926

Box 17

Box 17 of 215 Folder 1 National Geographic Station: National Geographic Society, 1927-1932

Box 17 of 215 Folder 2 National Geographic Station: N - R

Box 17 of 215 Folder 3 National Geographic Station: Sordahl, L. O., 1929-1930. Includes letter of June 10, 1930 concerning Pyranometer corrections of 1/24/1930 (lightning destroyed bolometer circuit).

Box 17 of 215 Folder 4 National Geographic Station: Sordahl, L. O., 1931

Box 17 of 215 Folder 5 National Geographic Station: Southwest Africa

Box 17 of 215 Folder 6 National Geographic Station: State Department

Box 17 of 215	Folder 7 National Geographic Station: S
Box 17 of 215	Folder 8 National Geographic Station: T - V
Box 17 of 215	Folder 9 National Geographic Station: Venning, James A., 1926-1929
Box 17 of 215	Folder 10 National Geographic Station: W - Z
Box 17 of 215	Folder 11 National Research Council, 1931-1954
Box 17 of 215	Folder 12 National
Box 17 of 215	Folder 13 Na
Box 17 of 215	Folder 14 Ne
Box 17 of 215	Folder 15 New Stations
Box 17 of 215	Folder 16 New York
Box 17 of 215	Folder 17 New York Commission on Ventilation. Concerns body heat output.
Box 17 of 215	Folder 18 Nicolet, M., 1952-1954
Box 17 of 215	Folder 19 Ni
Box 17 of 215	Folder 20 No
Box 18	
Box 18 of 215	Folder 1 O'Brien, Brian, 1929-1936
Box 18 of 215	Folder 2 O'Brien, Brian, 1937-1938. Concerns topics on Sounding Balloons.
Box 18 of 215	Folder 3 O'Brien, Brian, 1939-1940
Box 18 of 215	Folder 4 O'Brien, Brian, 1941
Box 18 of 215	Folder 5 Ob - Oc
Box 18 of 215	Folder 6 Od - Oi

Box 18 of 215	Folder 7 O'Hara, Doris L., 1955
Box 18 of 215	Folder 8 Office Memoranda S. I., 1946
Box 18 of 215	Folder 9 Official Memoranda, 1944
Box 18 of 215	Folder 10 Olivera, Tomas M. (sunspot study), 1938; 1941-1942
Box 18 of 215	Folder 11 Om - Op
Box 18 of 215	Folder 12 Or - Oz
Box 18 of 215	Folder 13 Paa - Paq
Box 18 of 215	Folder 14 Parapsychology Laboratory, J.B. Rhine
Box 18 of 215	Folder 15 Par - Paz
Box 18 of 215	Folder 16 Pastiels, R., 1954-1955
Box 19	
Box 19 of 215	Folder 1 Pea - Pen
Box 19 of 215	Folder 2 Peo - Pz
Box 19 of 215	Folder 3 Personnel: Loyal B. Aldrich - Job description etc.
Box 19 of 215	Folder 4 Personnel: Aldrich, Stanley L., 1947-1952 - Job description, etc. (includes short descriptions of instruments & jobs)
Box 19 of 215	Folder 5 Personnel: Froiland, Alfred G. - Job description etc.
Box 19 of 215	Folder 6 Personnel: Greeley, Frederick A. - Job description etc.
Box 19 of 215	Folder 7 Personnel: Hill, Lena J. - Job description etc.
Box 19 of 215	Folder 8 Personnel: Kramer, Andrew - Job description etc. (S. I. instrument maker for 61 years)
Box 19 of 215	Folder 9 Personnel: Pora, John A. - Job description etc.

- Box 19 of 215 Folder 10 Pyrheliometers: U. S. - New York "Case." Concerns Co-operative in Remittances to Europe Isx.
- Box 19 of 215 Folder 11 Pyrheliometers: U. S., Minnesota, University of Minnesota
- Box 19 of 215 Folder 12 Pyrheliometers: U. S., Pennsylvania American Society of Heating & Ventilating Engineers, 1931-1954
- Box 19 of 215 Folder 13 Pyrheliometers: U. S. Rhode Island, Eppley Laboratory, Inc.
- Box 19 of 215 Folder 14 Pyrheliometers: U. S. Rhode Island. Includes University of R. I. College of Engineering.
- Box 19 of 215 Folder 15 Pyrheliometers: U. S., Wisconsin - University of Wisconsin
- Box 19 of 215 Folder 16 Pyrheliometers: Portugal, Oporto Observatory
- Box 19 of 215 Folder 17 Pyrheliometers: Portugal Observatorio Central Meteorologico
- Box 19 of 215 Folder 18 Ra
- Box 19 of 215 Folder 19 Radiation and Organisms: Atomic Energy Commission
- Box 19 of 215 Folder 20 Radiation and Organisms: Johnston, E. J., 1936-1948. Concerns plant studies.
- Box 19 of 215 Folder 21 Radiation and Organisms; Enoch Kramer
- Box 19 of 215 Folder 22 Radiation and Organisms: Mcalister, E. D., 1931-1935
- Box 19 of 215 Folder 23 Radiation and Organisms: Withrow, R. B.
- Box 19 of 215 Folder 24 Radio Talks: Aldrich, L. B.
- Box 19 of 215 Folder 25 Rea - Ree
- Box 19 of 215 Folder 26 Ref - Rz
- Box 20
- Box 20 of 215 Folder 1 Salto, Observatorio Del
- Box 20 of 215 Folder 2 Sca - Sch

Box 20 of 215	Folder 3 Science Service
Box 20 of 215	Folder 4 Scientia: Dr. Paolo Bosetti
Box 20 of 215	Folder 5 Sci
Box 20 of 215	Folder 6 Sea - Sel
Box 20 of 215	Folder 7 Sem - Sey
Box 20 of 215	Folder 8 Servel, Inc.
Box 20 of 215	Folder 9 Seth Thomas Clock Co.
Box 20 of 215	Folder 10 Sha
Box 20 of 215	Folder 11 Schneiderov, A. J., 1942-1949. Concerns an exponential theory of gravitation.
Box 20 of 215	Folder 12 She - Shy
Box 20 of 215	Folder 13 Si
Box 20 of 215	Folder 14 Slide Rule
Box 20 of 215	Folder 15 Si
Box 20 of 215	Folder 16 Smith
Box 20 of 215	Folder 17 Sm
Box 20 of 215	Folder 18 Sn
Box 20 of 215	Folder 19 So
Box 20 of 215	Folder 20 Solar Constant Values, 1920-1953
Box 20 of 215	Folder 21 Sp
Box 20 of 215	Folder 22 State Department

Box 21

Box 21 of 215	Folder 1 Sta
Box 21 of 215	Folder 2 Ste
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Box 21 of 215	Folder 4 Stockbarger, D. C., 1936, 1937
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Box 21 of 215	Folder 6 Su - Sv
Box 21 of 215	Folder 7 Sunspot Numbers, 1749-1952. Includes comparisons between Solar-constant data and sunspot data for 1919 and 1920.
Box 21 of 215	Folder 8 Superintendent of Buildings
Box 21 of 215	Folder 9 Supply Division Memoranda, 1949-1950
Box 21 of 215	Folder 10 Supply Division Memoranda, 1951
Box 21 of 215	Folder 11 Supply Division Numbered Requisitions, Division of R & O
Box 21 of 215	Folder 12 Supply Division - Requisitions - Private Funds

Box 22

Box 22 of 215	Folder 1 Supply Division Numbered Requisitions, 175-299, 1950-1951
Box 22 of 215	Folder 2 Supply Division Requisitions, 1300-399, 1952-1953
Box 22 of 215	Folder 3 Supply Division Numbered Requisitions, 1947-1950
Box 22 of 215	Folder 4 Supply Division Numbered Requisition
Box 22 of 215	Folder 5 Surplus Equipment
Box 22 of 215	Folder 6 Sw
Box 22 of 215	Folder 7 Ta
Box 22 of 215	Folder 8 Tear, J. D. Concerns radiometer troubles.

Box 23

- | | |
|---------------|--|
| Box 23 of 215 | Folder 1 Te |
| Box 23 of 215 | Folder 2 Tellurium Wire |
| Box 23 of 215 | Folder 3 Thomson, Elihu. One letter explains why satellite mirrors were needed in the A. P. O. work. |
| Box 23 of 215 | Folder 4 Th - Ti |
| Box 23 of 215 | Folder 5 To |
| Box 23 of 215 | Folder 6 Torreon Observations |
| Box 23 of 215 | Folder 7 Transfer of Personnel. Includes Dr. James E. Zimmerman transfer to Montezuma, Chile. |
| Box 23 of 215 | Folder 8 Tra - Tre |
| Box 23 of 215 | Folder 9 Treasury Department (Procurement Division) |
| Box 23 of 215 | Folder 10 Tri - Try |
| Box 23 of 215 | Folder 11 Tu - Ty |
| Box 23 of 215 | Folder 12 Ua - Um |
| Box 23 of 215 | Folder 13 Un |
| Box 23 of 215 | Folder 14 Unsold, Albrecht, 1951. Concerns Ultraviolet & Infrared corrections of bolograms. |
| Box 23 of 215 | Folder 15 Up - Uz |
| Box 23 of 215 | Folder 16 Vanderbilt, R. T. Co., 1940-1941. Concerns experiments on a sunlight lamp. |
| Box 23 of 215 | Folder 17 V |
| Box 23 of 215 | Folder 18 Walcott, C. D. |

Box 24

- Box 24 of 215 Folder 1 Weather Bureau, 1920-1925. Includes brochure "Elementary Notes on Least Squares, The Theory of Statistics & Correlation, For Meteorology & Agriculture."
- Box 24 of 215 Folder 2 Weather Bureau, 1926. Pyrheliometer SI 30 readings, 1920-1926. Includes a few solar constant values.
- Box 24 of 215 Folder 3 Weather Bureau, 1927-1928. Includes a few solar constant values.
- Box 24 of 215 Folder 4 Weather Bureau, 1929-1933. Includes a few ozone measurements.
- Box 24 of 215 Folder 5 Weather Bureau, 1950. Includes Montezuma "short method" Days (pyrheliometry) and "Wet and Dry Readings made at Montezuma & Table Mountain during December of each year 1923-1939."
- Box 24 of 215 Folder 6 Wegener, Kurt. Includes "A Supposed Error in Smithsonian Solar Constant Determinations."
- Box 24 of 215 Folder 7 W
- Box 24 of 215 Folder 8 Y

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Series 2: ASTROPHYSICAL OBSERVATORY CHARTS, 1920-1955.

In the solar constant work of the Astrophysical Observatory, four main instruments were used: The spectrobolometer, the pyranometer, the pyrhelimeter, and the theodolite. The spectrobolometer was used to make autographic recordings of the relative intensities of the solar rays which make up the solar spectrum. These graphs are called holographs. The pyranometer was used for measuring sky brightness (it measures the intensity of the so-called "solar aureole"). It was used because of a relationship which was discovered between atmospheric transmission. The pyrhelimeter was used to determine the direct solar beam intensity. The theodolite was used for determining the sun's altitude above the horizon so that the so-called "air mass" can be determined.

Pyrheliometry, pyranometry, and theodolite measurements are recorded in the wastebooks (Series 5). There are a few exceptions, however, because the wastebooks pertaining to Washington, D. C. and Mt. Wilson do have some spectrobolometric data and atmospheric transmission measurements recorded. The charts (for Montezuma & Table Mountain) contain everything, spectrobolometry, pyrhelometry, pyranometry, etc.

It must be remembered that there will be exceptions because over a 50 year work span procedures did change.

Some wastebooks are copies instead of originals. This is due to the fact that during a period of the solar constant work observers would set the page in the record book in the following manner. Over the appropriate page in the wastebok a carbon-paper and another sheet would be attached with paper clips. They would then record their observations and would thus have a permanent copy for the observing station and a removable one which would be sent to the APO in Washington, D. C.

It is obvious that two wastebooks were used in recording a days observations. One wastebok contained pyranometry, psychrometry, times of start and finish of the holographic record, and the weather conditions. The other book would contain the pyrhelometry and the theodolite measurements. Then, of course, the holographic plates were kept (Series 23), thus giving spectrobolometric records.

The plates were then read at different positions (that is, the heights of the curves at different positions were determined). All of the data was then used in the reduction of the solar constant. This was either done at the station or in Washington, D. C. The plate readings were recorded on chart paper. The charts contain the accumulated data and the final reductions for Mt. Montezuma and Table Mountain (Both long and short methods). The charts are the final product.

For further explanation of the charts see Appendix 1 (in control file).

Box 25

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Montezuma, 1920-1923

Box 26

Box 26 of 215

Montezuma, January-June 1924

Box 27

Box 27 of 215

Montezuma, July- December 1924

Box 28

Box 28 of 215 Montezuma, January-June 1925

Box 29

Box 29 of 215 Montezuma, July-December 1925

Box 30

Box 30 of 215 Montezuma, January-June 1926

Box 31

Box 31 of 215 Montezuma, July-December 1926

Box 32

Box 32 of 215 Montezuma, January-June 1927

Box 33

Box 33 of 215 Montezuma, July-December 1927

Box 34

Box 34 of 215 Montezuma, January-June 1928

Box 35

Box 35 of 215 Montezuma, July-December 1928

Box 36

Box 36 of 215 Montezuma, January-June 1929

Box 37

Box 37 of 215 Montezuma, July-December 1929

Box 38

Box 38 of 215 Montezuma, January-June 1930

Box 39

Box 39 of 215 Montezuma, July-December 1930

Box 40

Box 40 of 215 Montezuma, January-June 1931

Box 41

Box 41 of 215 Montezuma, July-December 1931

Box 42

Box 42 of 215 Montezuma, January-June 1932

Box 43

Box 43 of 215 Montezuma, July-December 1932

Box 44

Box 44 of 215 Montezuma, January-June 1933

Box 45

Box 45 of 215 Montezuma, July-December 1933

Box 46

Box 46 of 215 Montezuma, January-June 1934

Box 47

Box 47 of 215 Montezuma, July-December 1934

Box 48

Box 48 of 215 Montezuma, January-June 1935

Box 49

Box 49 of 215 Montezuma, July-December 1935

Box 50

Box 50 of 215 Montezuma, January-June 1936

Box 51

Box 51 of 215 Montezuma, July-December 1936

Box 52

Box 52 of 215 Montezuma, January-June 1937

Box 53

Box 53 of 215 Montezuma, July-December 1937

Box 54

Box 54 of 215 Montezuma, January-June 1938

Box 55

Box 55 of 215 Montezuma, July-December 1938

Box 56

Box 56 of 215 Montezuma, January-June 1939

Box 57

Box 57 of 215 Montezuma, July-December 1939

Box 58

Box 58 of 215 Montezuma, January-June 1940

Box 59

Box 59 of 215 Montezuma, July-December 1940

Box 60

Box 60 of 215 Montezuma, January-August 1941

Box 61

Box 61 of 215 Montezuma, September-December 1941

Box 62

Box 62 of 215 Montezuma, January-April 1942

Box 63

Box 63 of 215 Montezuma, May-August 1942

Box 64

Box 64 of 215 Montezuma, September-December 1942

Box 65

Box 65 of 215 Montezuma, January-April 1943

Box 66

Box 66 of 215 Montezuma, May-August 1943

Box 67

Box 67 of 215 Montezuma, September-December 1943

Box 68

Box 68 of 215 Montezuma, January-May 1944

Box 69

Box 69 of 215 Montezuma, June-December 1944

Box 70

Box 70 of 215 Montezuma, January-June 1945

Box 71

Box 71 of 215 Montezuma, July-December 1945

Box 72

Box 72 of 215 Montezuma, January-December 1946

Box 73

Box 73 of 215 Montezuma, January-December 1947

Box 74

Box 74 of 215 Montezuma, January 1948-June 1949

Box 75

Box 75 of 215 Montezuma, July 1949-December 1950

Box 76

Box 76 of 215 Montezuma, 1951

Box 77

Box 77 of 215 Montezuma, 1952

Box 78

Box 78 of 215 Montezuma, 1953

Box 79

Box 79 of 215 Montezuma, 1954

Box 80

Box 80 of 215 Montezuma, January-June 1955

Box 81

Box 81 of 215 Table Mountain, December 1925-May 1926

Box 82

Box 82 of 215 Table Mountain, June-October 1926

Box 83

Box 83 of 215 Table Mountain, November 1926-April 1927

Box 84

Box 84 of 215 Table Mountain, May-August 1927

Box 85

Box 85 of 215 Table Mountain, September-December 1927

Box 86

Box 86 of 215 Table Mountain, January-June 1928

Box 87

Box 87 of 215 Table Mountain, July-December 1928

Box 88

Box 88 of 215 Table Mountain, January-May 1929

Box 89

Box 89 of 215 Table Mountain, June-September 1929

Box 90

Box 90 of 215 Table Mountain, October 1929-February 1930

Box 91

Box 91 of 215 Table Mountain, March-July 1930

Box 92

Box 92 of 215 Table Mountain, August-December 1930

Box 93

Box 93 of 215 Table Mountain, January-June 1931

Box 94

Box 94 of 215 Table Mountain, July-December 1931

Box 95

Box 95 of 215 Table Mountain, January-May 1932

Box 96

Box 96 of 215 Table Mountain, June-September 1932

Box 97

Box 97 of 215 Table Mountain, October-December 1932

Box 98

Box 98 of 215 Table Mountain, January-May 1933

Box 99

Box 99 of 215 Table Mountain, June-August 1933

Box 100

Box 100 of 215 Table Mountain, September-December 1933

Box 101

Box 101 of 215 Table Mountain, January-April 1934

Box 102

Box 102 of 215 Table Mountain, May-August 1934

Box 103

Box 103 of 215 Table Mountain, September-December 1934

Box 104

Box 104 of 215 Table Mountain, January-May 1935

Box 105

Box 105 of 215 Table Mountain, June-September 1935

Box 106

Box 106 of 215 Table Mountain, October 1935-February 1936

Box 107

Box 107 of 215 Table Mountain, March-August 1936

Box 108

Box 108 of 215 Table Mountain, September 1936-February 1937

Box 109

Box 109 of 215 Table Mountain, March-July 1937

Box 110

Box 110 of 215 Table Mountain, August-December 1937

Box 111

Box 111 of 215 Table Mountain, January-June 1938

Box 112

Box 112 of 215 Table Mountain, July-December 1938

Box 113

Box 113 of 215 Table Mountain, January-June 1939

Box 114

Box 114 of 215 Table Mountain, July-December 1939

Box 115

Box 115 of 215 Table Mountain, January-July 1940

Box 116

Box 116 of 215 Table Mountain, August 1940-May 1941

Box 117

Box 117 of 215 Table Mountain, June-December 1941

Box 118

Box 118 of 215 Table Mountain, January-August 1942

Box 119

Box 119 of 215 Table Mountain, September-December 1942

Box 120

Box 120 of 215 Table Mountain, January-July 1943

Box 121

Box 121 of 215 Table Mountain, August 1943-February 1944

Box 122

Box 122 of 215 Table Mountain, March-September 1944

Box 123

Box 123 of 215 Table Mountain, October 1944-June 1945

Box 124

Box 124 of 215 Table Mountain, July-December 1945; November-December 1947

Box 125

Box 125 of 215 Table Mountain, January-June 1948

Box 126

Box 126 of 215 Table Mountain, July-December 1948

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Series 3: ASTROPHYSICAL OBSERVATORY DAY BOOKS AND YEAR BOOKS, 1889-1907.

The Year Books and Day Books were daily logs and record books kept by APO staff. Entries are spotty. Among those who made entries were Samuel P. Langley, Charles G. Abbot, R. C. Child, and F. E. Fowle, Jr. Included are brief notes concerning replacements of equipment, work done on special equipment, and daily activities. Some entries include inventories and lists of shipments received.

Box 127

- Box 127 of 215 Year Book 1889-1890. Page 293 includes written copy of a letter to the Secretary of Treasury submitting estimates for the fiscal year ending June 30, 1892.
- Box 127 of 215 Day Book 1891. Pages 28 and 54 include resolution adopted by the Board of Regents of the Smithsonian Institution; page 30 concerns locating observatory.
- Box 127 of 215 Day Book 1892. Page 66 concerns autographic spectrum; pages 113, 200 and 235 include photographs of apparatus.
- Box 127 of 215 Day Book 1893

Box 128

- Box 128 of 215 Day Book 1894
- Box 128 of 215 Day Book 1895
- Box 128 of 215 Day Book 1896. Front of book includes a few explanations of abbreviations.
- Box 128 of 215 Day Book 1897

Box 129

- Box 129 of 215 Day Book 1898
- Box 129 of 215 Day Book 1899
- Box 129 of 215 Day Book 1901
- Box 129 of 215 Day Book 1902. Page 353 includes "Memorandum on the History of the Research on the Solar Atmosphere."

Box 130

Box 130 of 215 Day Book 1903. Page 10 includes drawing of coelostat apparatus.

Box 130 of 215 Day Book 1904

Box 130 of 215 Day Book 1905

Box 130 of 215 Day Book 1906

Box 131

Box 131 of 215 Day Book 1907

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Series 4: ENERGY SPECTRUM BOOKS.

The Energy Spectrum books seem to consist of spectrobolometric data from Washington, D. C. (ca. 1892-1917) and Allegheny Observatory (ca. 1882-1886). The starting and stopping times for the various plates, and sometimes the plates, settings, are given. Volume I (page 49) includes an explanation of terms used. Volume II contains instructions given by Langley for bolometry observations.

Box 131

Box 131 of 215 Vol. I, May 13, 1892-May 26, 1894. Refers to Washington, D. C. unless specified. Includes a few wet & dry and barometer readings, and perhaps some Bolometry.

Box 132

Box 132 of 215 Volume II. The first few pages have "Instructions for Bolometric Observations Dictated by Prof. Langley." This volume is for the Allegheny Station, May 1, 1882-January 29, 1885.

Box 132 of 215 Volume II, Washington, D. C., July 11, 1894-December 6, 1895. Includes a few Wet & Dry readings.

Box 133

Box 133 of 215 Volume III, January 3, 1895-June 10, 1898, Washington, D. C.

Box 133 of 215 Volume III, January 21, 1885- September 13, 1886, Allegheny

Box 134

Box 134 of 215 Volume IV - July 16, 1898-August 1, 1902. Page 732 concerns Rough Dispersion Curve (of Glass Prism).

Box 135

Box 135 of 215 Volume V, August 2, 1902-October 14, 1904, APO D. C. Includes times of start & finish of bolometry.

Box 136

Box 136 of 215 Volume VI, November 15, 1904-September 5, 1911, D. C. Includes one loose piece of paper on Wet & Dry & Reduced Humidity of Air. It also says, "assumed barometer 18." This sheet had columns reading Wet, Dry, Vapor Pressure, Dew Point, and Relative Humidity.

Box 137

Box 137 of 215

Volume VII - Empty

Box 138

Box 138 of 215

Volume VIII, July 23, 1913-April 10, 1917, D. C. Page 55 may concern priam deviation.

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Series 5: ASTROPHYSICAL OBSERVATORY WASTEBOOKS, CA., 1890-1950.

For an explanation of Wastebooks see description of Series 2.

The Wastebooks contain weather information and data from the various APO observing stations. These data were used in determining the "solar constant." Graphs of results obtained are often in the backs of the books. The first few volumes contain information on instruments and the observatory layout of the Washington, D. C., station. It is assumed that (at the least) the first 34 volumes originated in Washington, D. C., since no other observing stations existed until 1905. In many of the early books dates around 1926 were found, probably because the books were being reviewed with the intent of publishing some of the data. It was noted if the wastebooks were originals or copies. Also noted were pages containing wet and dry readings taken by a sling psychrometer. Also tables of t and t' with R . H. noted (presumably t and t' are wet and dry readings). Only a few vapor pressure and no air pressure readings were seen. Wastebooks which have wet and dry readings throughout are circled.

Box 139

- Box 139 of 215 1 (original): April 14, 1890 - August 14, 1890, S. I. This book contains drawings and writings.
- Box 139 of 215 2 (original): May 4, 1891 - December 31, 1891, S. I. September and October are not included. It pertains to instruments.
- Box 139 of 215 2 & 3 (original): January 2, 1892 - September 2, 1892, S. I. Involves instrumentation of the APO.

Box 140

- Box 140 of 215 4 & 5 (original): March 18 - July 31, 1892, S. I. May is not included. Contains pictures and discussions of instruments, September 3, 1892 - December 31, 1892, S. I.

Box 141

- Box 141 of 215 6 & 7 (original): January 1, 1893 - August 31, 1893, S. I. Includes drawings of instruments and layout of Observatory. Contains a few wet and dry readings on pages 264-266.
- Box 141 of 215 8 (original): September 2, 1893 - May 2, 1894, S. I. Discusses instruments. 9-12 are not included.

Box 142

- Box 142 of 215 13 (original): May 3, 1894 - December 28, 1894, S. I. Includes a few readings-probably testing equipment, and wet and dry readings on page 130. 14 is not included.

- Box 142 of 215 15 (original): December 31, 1894 - August 23, 1895, S. I. February, March, April, and May are not included. Contains some readings & drawings.
- Box 142 of 215 16 (original): June 18, 1895 - April 15, 1896, S. I. Appears as though this and #15 were kept by two different people (handwriting not the same) and this is probably the reason for the overlap of dates. The data, however, is not the same. Contains only one set of wet and dry readings on pages 18-22.
- Box 143
- Box 143 of 215 17 (blank) - (see accession 86-161)
- Box 143 of 215 18 (original): August 24, 1895 - April 25, 1896, S. I. Appears to deal with spectrophotometer; includes photos of spectrum and holographic readings throughout.
- Box 143 of 215 19 (original): February 12, 1896 - October 10, 1896, S. I. Includes drawings, and one set of readings of wet and dry for inside and for outside the Observatory, pages 332, 334, 336, 340, 372, 374.
- Box 143 of 215 20 (original): April 4, 1896 - April 17, 1896. Includes tables and computations. Appears to be from Moskaro, Russia (see wastebook. #45). 21-28 are not included (for #22, #23, #25, #27 - see Accession 86-161).
- Box 144
- Box 144 of 215 29 (original): July 12, 1899 - March 25, 1903, S. I. Some dates are missing, but the papers were kept in chronological order. Includes a few tables and notes of testing equipment.
- Box 144 of 215 30 (original): June 27, 1899 - December 13, 1902. In front it says that this book was used for abstracts on subjects of interest to the APO. 31-34 are not included.
- Box 144 of 215 35 (original): April 7, 1903 - August 3, 1906. Appears to be in Washington; however, Mt. Wilson and Mt. Whitney are mentioned (most likely in reference to the expeditions to these
- Box 144 of 215 places).
- Box 145
- Box 145 of 215 36 (original): July 9, 1903 - September 28, 1904, S. I. Deals with atmospheric absorption and includes computations.

- Box 145 of 215 37 (original): July 20, 1904 - July 6, 1907. Includes observations and pyrheliometer and actinometer. Mostly concerns Washington, with a few readings from Mt. Wilson (probably used for comparison).
- Box 145 of 215 38 (original): October 1, 1904 - July 2, 1907. Includes atmospheric absorption tables from Washington and Mt. Wilson.
- Box 146
- Box 146 of 215 39 (original): February 25, 1907. Mostly concerns Mt. Wilson; however, contains tables from Washington. Dates are scattered throughout as though they were comparing data-back to 1905.
- Box 146 of 215 40 (original): July 1, 1905 - April 16, 1908. Includes Washington and Mt. Wilson tables.
- Box 146 of 215 41 (original): November 23, 1905 - July 22, 1907. Concerns Mt. Wilson & Washington (also May 4, 1911 and Washington October 1926). On page 398 Washington (Montezuma) is referred to (was probably Montezuma data but analyzed at Washington).
- Box 147
- Box 147 of 215 42 (original): November 29, 1905 - August 17, 1910. Mostly concerns Washington - Wilson mentioned with tables. Mt. Whitney is mentioned on page 399, wet and dry readings are on page 39 and pages 83-95, and barometer readings are on pages 238 and 263.
- Box 147 of 215 43 (original): July 17, 1905 - September 28, 1907. This contains tables from Washington, Mt. Wilson and Mt. Montezuma. Near end of book dates and places scattered as though comparing Data (dates of 1926 found).
- Box 147 of 215 44 (original): May 13, 1906 - August 8, 1907. Mostly of Mt. Wilson (Actinometer readings and Intensity across Sun's disk). Page 232 has computations from Mt. Whitney sky observations. Some Washington and Montezuma observations (last page date May 1927). Includes only one set of wet & dry readings on pages 9, 11, 13, 17, 19, 21, 23-77. Many sets of wet and dry readings on pages 79, 81, 85, 87. Vapor pressures are also with these readings.
- Box 148
- Box 148 of 215 45 (original): June 16, 1906 - October 21, 1912. Mostly of Washington-page 164 has some Russian on it with temperatures taken at Moskaro, Russia. Wet and dry readings on pages 175 and 187.

- Box 148 of 215 46 (original): May 19, 1908 - November 18, 1908, Mt. Wilson. There are a lot of dates skipped and ends with April 9, 1926 at Washington. Wet and dry readings on pages 23, 41, 43, 45, 47-198, 201-295.
- Box 148 of 215 47 (original): May 9, 1908 - November 24, 1909 (with additional dates). Page 134 includes typed pages of directions for preparing Short Method Tables. Wilson, Washington, and Montezuma are mentioned-book ends January 1927.
- Box 149
- Box 149 of 215 48 (carbon copy): June 2, 1911 - November 21, 1911; Mt. Wilson and Washington, September 28, 1912 - December 20, 1912. Wet and dry readings on pages 18-38, 48-52, 60-126, 130-326.
- Box 149 of 215 49 (original): June 1, 1909 - May 18, 1912, mostly of Mt. Wilson and Washington Stations. Pages 366 & 384 mention a comparison with Algeria, 1912; first graph in back mentions Mt. Whitney. One set of Wet and dry readings on pages 5-34, only one or two sets on pages 51-81, 95-116, and 123-257.
- Box 149 of 215 50 (original & carbon copy): June 4, 1910 - November 9, 1910, mostly Mt. Wilson with Mt. Whitney expedition copied here. Near end Montezuma data is analyzed in D. C. Wet and dry readings on pages 49-142, 147-302, 314-323.
- Box 149 of 215 51 (carbon copy): Bassour, Algeria Expedition November 10, 1911 - September 9, 1912. Page 320 starts with Washington, February 1927. Wet and dry readings on pages 50-160, 162-302.
- Box 150
- Box 150 of 215 52 (original): November 5, 1912 - March 1927, with many dates skipped. Washington and Arequipa mentioned. Wet and dry readings on page 107; some hygrometer readings on page 230.
- Box 150 of 215 53-54: Not Included (see Accession 86-161)
- Box 150 of 215 55 (carbon copy): June 13, 1914 - October 20, 1914, Mt. Wilson. March 1927 - May 1927 appear to be analyzing Montezuma data in Washington. Wet and dry readings on page 20-221.
- Box 150 of 215 56 (carbon copy): June 8, 1915 - October 22, 1915, Mt. Wilson. December 20, 1915, Washington. Mentions solar eclipse of May 1919; ends with Washington, November 1927, looking at Montezuma values. Wet and dry readings on pages 40-203, 212-268.

Box 151

- Box 151 of 215 57-58: Non Included (see Accession 86-161)
- Box 151 of 215 59 (carbon copy): June 16, 1916 - October 22, 1916, Mt. Wilson. January 25, 1927 - April 2, 1929. Wet and dry readings on pages 6-214.
- Box 151 of 215 60-65: Not Included (see Accession 86-161)
- Box 151 of 215 66 (carbon copy): March 29, 1921 - January 5, 1922, Harqua Hala station. Wet and dry readings pages 2-399.
- Box 151 of 215 67-71: Not Included (#67, #69-#71 - see Accession 86-161)
- Box 151 of 215 72 (original): July 1, 1919 - August 10, 1923 (?). Bolometric and pyranometer readings of Calama station; readings for Montezuma (time near September 1920).

Box 152

- Box 152 of 215 73 (original): June 22, 1917. Page 8 includes Hump Mountain observations. There are some weather observations of Montezuma - places and dates hard to determine. Page 401 ends with March 7, 1923. Includes some type of comparison work.
- Box 152 of 215 74-75: Not Included
- Box 152 of 215 76 (carbon copy): June 23, 1923 - March 20, 1924, Harqua Hala station. Wet and dry readings on pages 0-400.
- Box 152 of 215 77 (original): July 28, 1924 - November 1924, Harqua Hala station. Includes Montezuma computations. There are a few tables with columns reading H2O.

Box 153

- Box 153 of 215 78 - 82: Not Included (#79-#81 - see Accession 86-161)
- Box 153 of 215 83 (original): May 19, 1924 - last page February 3, 1930; dates up to 1935, Washington station.
- Box 153 of 215 84 (original): December 10, 1926 - June 14, 1928. Pyrheliometer readings of Mt. Brukkaros.
- Box 153 of 215 85 (original): June 14, 1928 - December 31, 1929, Mt. Brukkaros

Box 154

- Box 154 of 215 86 (original): June 16, 1928 - December 31, 1929, Mt. Brukkaros. Tables marked t & t' with R. H. Appears that the t & t' represent wet and dry readings.
- Box 154 of 215 87: December 9, 1926 - June 14, 1928, Mt. Brukkaros. Tables of t & t' %Sat. R. H. on pages 3-397.
- Box 154 of 215 88: Not Included
- Box 154 of 215 89 (carbon copy): May 19, 1927 - January 2, 1928, Table Mountain. Wt and dry readings on pages 2-401.

Box 155

- Box 155 of 215 90 (carbon copy): January 3, 1928 - August 17, 1928, Table Mountain. Wet and dry readings on pages 0-398.
- Box 155 of 215 91: Not Included
- Box 155 of 215 92 (original): Washington, February 4, 1918 - June 10, 1918; Washington, 1920. Includes collection of data from various mountains during 1919 and 1920. Goes up to October 19, 1924. Appears to be summary-in preparation for publishing.
- Box 155 of 215 93 (carbon copy): August 8, 1928 - May 2, 1929, Table Mountain. Many days may be missing but the book seems to be in chronological order. Wet and dry readings on pages 2-400.

Box 156

- Box 156 of 215 94 (carbon copy): May 3, 1929 - December 1, 1929, Table Mountain. Wet and dry readings on pages 2-400.
- Box 156 of 215 95 (original): November 7, 1927 - April 4, 1930. Pertains to Body Radiation & Skin Temperature, Washington.
- Box 156 of 215 96: Not Included
- Box 156 of 215 97 (original): January 1, 1930 - April 19, 1931, Mt. Brukkaros. Readings, followed by pages 399 and 401 which show dates of December 1, 1930 and July 5, 1930. On these pages they are comparing instruments S. I. 47 and S. I. 48.

Box 157

- Box 157 of 215 98-103: Not Included (#98, #100-#102 - see Accession 86-161)
- Box 157 of 215 104 (original): May 22, 1931 - November 20, 1931, Mt. Brukkaros. Tables of t
& t' with R. H.
- Box 157 of 215 105 (original): May 22, 1931 - November 20, 1931. Pyrheliometer readings of
Mt. Brukkaros.
- Box 157 of 215 106-107: Not Included (#106 - see Accession 86-161)
- Box 157 of 215 108 (carbon copy): March 1, 1932 - October 12, 1932, Table Mountain. Wet
and dry readings on pages 4-400.
- Box 158
- Box 158 of 215 109-112: Not Included (#109-110 - see Accession 86-161)
- Box 158 of 215 113 (carbon copy): August 16, 1933 - June 12, 1934, Table Mountain. Wet
and dry readings on pages 2 to last page.
- Box 158 of 215 114-116: Not Included (#114-116 - see Accession 86-161)
- Box 158 of 215 117 (carbon copy): First part is somewhat of a diary of an expedition to Mt.
St. Katherine. Dates start from March 1 , 1933 and on page 39 ends with July
18, 1934. Pages 40-44 are dates from September 28, 1933 to November
1933. Actual data starts on page 99, December 27, 1933 - July 18, 1934.
Wet and dry readings on pages 99-396.
- Box 158 of 215 118 (carbon copy): June 13, 1934 - May 18, 1935, Table Mountain. Wet and
dry readings on pages 2 to last page.
- Box 159
- Box 159 of 215 119 (carbon copy): May 19, 1935 - April 7, 1936, Table Mountain. Wet and
dry readings on pages 2 to last page.
- Box 159 of 215 120: Not Included (see Accession 86-161)
- Box 159 of 215 121 (carbon copy): April 8, 1936 - February 22, 1937, Table Mountain. Wet
and dry readings on pages 2-400.
- Box 160
- Box 160 of 215 122: Not Included

Box 160 of 215 123 (carbon copy): February 6, 1937 - September 4, 1937. Pyrheliometer readings from Mt. St. Katherine-following page 384 is what looks like a summary of the weather during February 1, 1937 to September 6, 1937. On page 394, dates start with September 5, 1937 to September 7, 1937. Wet and dry readings are on pages 2-398.

Box 160 of 215 124: Not Included

Box 160 of 215 125 (carbon copy): September 8, 1937 - November 1937, Mt. St. Katherine station. At end of book is a weather review of this period. Wet and dry readings on pages 0-150.

Box 160 of 215 126: Not Included (see Accession 86-161)

Box 160 of 215 127 (carbon copy): February 23, 1937 - December 4, 1937, Table Mountain. Wet and dry readings on pages 4-400.

Box 161

Box 161 of 215 128 (carbon copy): December 5, 1937 - September 23, 1938, Table Mountain. Wet and dry readings pages 2-398.

Box 161 of 215 129 (carbon copy): Books states it was to be preceded by wastebook #134. November 22, 1939 - September 30, 1940. Page 338 is Tyrone station. Following page 341 there are dates from July 2, 1940 to May 3, 1940-appears to be a comparison of instruments. Wet and dry readings on pages 4-338.

Box 161 of 215 130 (carbon copy): September 27, 1939 - September 23, 1940, Table Mountain. Wet and dry readings on pages 14-400.

Box 162

Box 162 of 215 131 (carbon copy): October 1, 1940 - October 29, 1941, Tyrone Station. Starting on page 372 dates are mixed up- October 28, 1941 to October 18, 1940. Wet and dry readings on pages 4-368.

Box 162 of 215 132 (carbon copy): September 24, 1940 - November 19, 1941, Table Mountain. Wet and dry readings on pages 0-400.

Box 162 of 215 133 (carbon copy): September 23, 1938 - September 16, 1939, Table Mountain. Wet and dry readings on pages 0-400.

Box 163

- Box 163 of 215 134 (carbon copy): Starts June 7, 1938-page 24 starts January 13, 1938 - November 20, 1929 then on page 388, February 25, 1939 to June 7, 1939 (comparing instruments), Tyrone Station. Wet and dry readings on pages 0-340.
- Box 163 of 215 135 (carbon copy): November 15, 1941 - November 10, 1942, Tyrone Station. Near the end is some type of instrument comparison and thus the dates are in reverse order. Wet and dry readings on pages 0-374.
- Box 163 of 215 136-138: Not Included (#137 - see Accession 86-161)
- Box 163 of 215 139 (carbon copy): November 20, 1941 - November 22, 1942, Table Mountain. Wet and dry readings on pages 6-400.
- Box 164
- Box 164 of 215 140 (carbon copy): November 23, 1942 - November 18, 1943, Table Mountain. Wet and dry readings on pages 0-400.
- Box 164 of 215 141 (carbon copy): November 11, 1942 - January 14, 1944, Tyrone Station. Mixture of dates in rear not exceeding February 1944. Wet and dry readings throughout.
- Box 164 of 215 142: Not Included
- Box 164 of 215 143 (carbon copy): November 19, 1943 - December 30, 1944, Table Mountain. On page 384 January 1, 1944-January 15(7), 1944 on page 400. These were different values than the ones in the first half of book. Wet and dry readings throughout.
- Box 165
- Box 165 of 215 144 (carbon copy): January 20, 1944 - June 24, 1946, Table Mountain. Wet and dry readings throughout.
- Box 165 of 215 145 (carbon copy): June 29, 1945 - June 10, 1946, Tyrone Station. On page 148 starts Miami, November 5, 1947 - August 30, 1948. Wet and dry readings on pages 0-128.
- Box 165 of 215 146 (carbon copy): March 14, 1950 - November 8, 1950, Marked Table Mountain R(new). Then starts from February 19, 1951 - May 13, 1957. Dates are erratic. Wet and dry readings on pages 0-36.
- Box 166
- Box 166 of 215 147: Not Included (see Accession 86-161)

Box 166 of 215 148 (carbon copy): July 13, 1947 - August 12, 1948, Table Mountain. Wet and dry readings throughout.

Box 166 of 215 149-170: Not Included (#155, #157, #160 - see Accession 86-161)

Box 166 of 215 171-172: Blank

Box 167

Box 167 of 215 173: Not Included

Box 167 of 215 174-176: Blank

Box 168

Box 168 of 215 177-180: Not Included

Box 168 of 215 181-183: Blank

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Box 169 of 215 184: Blank

Box 169 of 215 185: Not Included

Box 169 of 215 186-187: Blank

Box 170

Box 170 of 215 188: Blank

Box 170 of 215 Two unmarked books in with wastebook #188. Only 2 or 3 pages in whole book written on and one of them mentioned Lick Observatory. Unmarked book has in it dates January 20, 1900--July 26, 1902. There are drawings and tables (purpose unknown). Abbot's initials are also in this book.

Box 171

Box 171 of 215 Wastebook (number obscured)

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Series 6: COMPUTER PROGRAMMING INSTRUCTIONS AND COMPUTER PRINTOUTS.

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Series 7: MISCELLANEOUS GRAPHS AND MONTHLY MEAN TEMPERATURES OF FOREIGN STATIONS.

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Graphs and Monthly Mean Temperatures

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Table Mountain and Mt. St. Katherine Pyrheliometer comparisons.

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Pyrheliometer and Pyranometer Comparisons - Table Mountain and Miami

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- Box 181 of 215 Folder 1 Henry L. Abbot by C. G. Abbot
- Box 181 of 215 Folder 2 Patents
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Box 182

- Box 182 of 215 Folder 1 A
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- Box 182 of 215 Folder 6 Cameron, Kerkam & Sutton
- Box 182 of 215 Folder 7 Commerce, Dept. of
- Box 182 of 215 Folder 8 E - H. Includes letter from Carlos Garcia-Mata. He requested a statistical study of Abbot's solar constant work.
- Box 182 of 215 Folder 9 Goddard, Esther
- Box 182 of 215 Folder 10 Grunhagen, Herbert
- Box 182 of 215 Folder 11 I - L
- Box 182 of 215 Folder 12 Krick, Irving P.
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- Box 183
- Box 183 of 215 Folder 1 Contributors to Science
- Box 183 of 215 Folder 2 Photographs. Includes Uncle Alonzo D. Greeley; C. G. Abbot, B. Jones, & Mrs. Abbot?; Charles Abbot & Louis Weber; Halley's Comet & Saturn; Charles Abbot - glass plate; Charles Abbot & A. Kramer; Miss Arthur; Total Eclipse of the Sun (September 22, 1922 - Australia); Roebling Family; 3 mirror solar boiler - also a 1 mirror solar boiler; Dr. Samuel Pierpoint Langley & his Sunspot drawings; Charles Abbot at Smithsonian Christmas Party, 1965; Charles Doolittle Walcott
- Box 183 of 215 Folder 3 Precipitation & Solar Variation Graphs. Books: By E. A. Makapoba & A. B. Xapntohob; By A. Ynebcknn; "The Earth & The Stars" by C. G. Abbot; Record Books (1907-1910 has some eclipse information; 1945-49 references

to radiometer; 1947 energy spectrum of various stars); "Draft Notes on Weather of Future Years" by I. R. Tannehill; Miscellaneous pamphlets.

Box 184

Copies of Dr. Abbot's papers, radio talks, etc., on various subjects

- Box 184 of 215 Folder 1 "Astronomy for Everybody" by C. G. Abbot
- Box 184 of 215 Folder 2 Experiences of Charles G. Abbot (Family Tree; "Life of Charles Greeley Abbot"; "A Fortunate Life"; "Seventy-Two Years With the Smithsonian Institution"; "Some Pleasures of My Ninety-fourth year"; "A Grand Concert"; Interesting Recollections of Special Features of
- Box 184 of 215 67 years at the Smithsonian; "The Second Half Century"; "A total Eclipse in the South Sea"; "Eagles")
- Box 184 of 215 Folder 2A Charles G. Abbot, "Uncles," Washington, 1949
- Box 184 of 215 Folder 3 Lectures & Radio Talks (Address to Royal Ontario Museum, Oct. 12, 1933; Appreciation of Dr. George E. Hale' America's Contribution To Leadership in Science; On The Evolution of The Stars; An American Fireside; Dr. Walcott, the Smithsonian Secretary and Academy President; An observatory among the Mottentots; The Sun & Life; Dark Sunlight; Optica, The Key of Astronomy; Speech at Phoenix, November 2, 1955; Congress hearing on R. Goddard, 3/16/1970)
- Box 184 of 215 Folder 4 Silver Disk Pyrheliometry & Areas of Flocculi
- Box 184 of 215 Folder 5 Smithsonian Institution (Radio Talk for 5/2/1944; "Why the Smithsonian Institution should Remain In Washington"; A Statesman's Bequest; The Ward of Our Nation; The Smithsonian Institution; The Work of the Smithsonian Observatory; Radiation Researches at the Smithsonian Institution)
- Box 184 of 215 Folder 6 Solar Apparatuses (Solar Flash Boiler; Abbot's Solar Heat Collector; The Toy Solar Heater; Solar Energy Converting Apparatus)
- Box 184 of 215 Folder 7 Solar-Weather Relations (Solar Variation & Temperature Changes; The Sun and Precipitation; Solar Variation and Weather; Weather Predetermined by Solar Variation; Some Periodicities in Solar Physics and Terrestrial Meteorology; The Sun Our Weather King; Radiation Measurements and Weather Forecasting; Periodic Solar Variation and Associated Weather Phenomena; Solar Magnetism and World Weather; What Causes Weather?; Weather & Solar Variation; Detailed Procedure Used en Abbot's Method of Long Range Weather Forecasting)

Box 184 of 215 Folder 8 Miscellaneous. Booklet - "The Solar Constant and the Solar Spectrum Measured From a Research Aircraft at 38,000 ft.

Box 184 of 215 Folder 9 "My Half Century As A Scientist In Washington"

Box 185

Box 185 of 215 Folder 1 Abbot's 100th Birthday

Box 185 of 215 Folder 2 Hrdlicka Estate

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Box 185 of 215 Folder 4 Manuscripts

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Box 185 of 215 Folder 6 Two Russian Articles & Their English Translations

Box 185 of 215 Folder 7 Miscellaneous - Articles about Lanbley, Korean Conflict, Solar Power, etc.

Box 186

Box 186 of 215 Folder 1 Photographs of Sun (Pictures of total solar eclipses, sunspots, and Prominences.

Box 186 of 215 Folder 2 Photographs - Dr. Charles Greeley Abbot. Also in this folder are postcards with Dr. Abbot on them.

[Digital Content: Secretaries of the Smithsonian Institution, \(l-r\) Leonard Carmichael \(seventh Secretary, 1953-1964\), Charles Greeley Abbot \(fifth Secretary, 1928-1944\) and Alexander Wetmore \(sixth Secretary, 1944-1952\) standing in front of an exhibit in the United States National Museum, now known as the National Museum of Natural History, circa 1950s. \[Image nos. 2003-19507 and MAH-42377-C and 94-12607\]](#)

[Digital Content: Portrait photograph of astrophysicist and fifth Smithsonian Institution Secretary \(1928-1994\) Charles G. Abbot \(1872-1973\) as a young man around 1897. \[Image no. 94-12606\]](#)

[Digital Content: Retirement of William H. Taylor of the Smithsonian Astrophysical Observatory \(SAO\) on April 30, 1954. \[Image no. 96-1019\]](#)

[Digital Content: Formal portrait of Charles Greeley Abbot, as a young man, 1890s. \[Image nos. 17891 or MAH-17891\]](#)

[Digital Content: Image of a painting by Louise Rochon Hoover, titled, "Professor Henry Posts Daily Weather Map in Smithsonian Institution Building, 1858", 1933. \[Image nos. 84-2074 and 31052-E and 94-12563\]](#)

Digital Content: Astrophysicist Charles Greeley Abbot (fifth Secretary of the Smithsonian Institution, 1928-1944) carrying the house-fly vane radiometer afoot up the Mount Wilson, California trail, circa 1930. [Image no. 94-12604]

Digital Content: Astrophysicist and fifth Secretary of the Smithsonian Institution (1928-1944) Charles Greeley Abbot sitting in a chair with printouts of solar observations connected to a Oatmeal container, circa 1968. [Image no. 94-4039]

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Folder 3 Dr. Abbot's Old Home

Digital Content: Fifth Smithsonian Institution Secretary (1928-1944) Charles Greeley Abbot (1872-1973) at age eleven with his water wheel and brook dam, 1883. [Image nos. 2003-19494 and MAH-10002]

Digital Content: Photograph of astrophysicist and fifth Secretary of the Smithsonian Institution (1928-1944) Charles Greeley Abbot's (1872-1973) old house. [Image nos. 33132 or MAH-33132]

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Folder 4 Photographs - Mt. St. Katherine, ca. 1937. Photos of region, natives, & observers quarters, the solar constant station, etc. A few photos are unidentified.

Digital Content: A solar observing station of the Smithsonian Astrophysical Observatory located at Mount St. Katherine, Egypt, from 1933 to 1937, circa 1933. [Image nos. SIA2011-1327 and 31226-N and 94-12579]

Digital Content: Smithsonian Astrophysical Observatory employees and visitors are shown at a Smithsonian Solar Observing Station at Mt. St. Katherine, Egypt, 1933. [Image no. 94-12577]

Digital Content: Front view of the house at the Mt. St. Katherine, Egypt Smithsonian Astrophysical Observatory Station, and the small house in back which was used as a tool house and which housed the motor-generator set, 1933. [Image no. 94-12578]

Digital Content: Instruments atop the Smithsonian Astrophysical Observatory Observing Station, Mt. St. Katherine, Egypt, 1933. [Image no. 94-12576]

Digital Content: Landscape view of the Smithsonian Astrophysical Observatory Solar Observing Station at Mt. St. Katherine, Egypt, circa 1933. [Image nos. 32528-A or MAH-32528A]

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Folder 5 Photographs - Bassour, Algeria ca. 1912. Photos of equipment, solar constant station, and surroundings. Bassour expedition 1911 & 1912. (Mr. Angstrom & Abbot).

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Folder 6 Photographs - Mt. Brukkaros, ca. 1926. Observers quarters, observing tunnel, equipment, etc.; pictures of region natives, observer's families, region on way to Brukkaros, leopard, etc.

Digital Content: Rescuing a waterlogged car in Mt. Brukkaros, Southwest Africa, c. 1927, site of a Smithsonian Astrophysical Observatory field station. [Image no. 94-12595]

Digital Content: Panorama of solar observatory and observers' house on Mt. Brukkaros, Southwest Africa, in the heart of the Hottentot Reservation, circa 1927. [Image no. 94-12593]

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Folder 7 Smithsonian Institution & APO staff members. Pictures of Dr. Abbot with various instruments, staff members, Smithsonian Secretaries, etc. Includes a picture of Dr. Abbot with Dr. Ripley & Dr. Carmichael, and a picture of Dr. Abbot with Mr. Aldrich and APO display showing plate reading machine.

Digital Content: Three Smithsonian Institution Secretaries standing together: Leonard Carmichael (1953-1964), Charles Greeley Abbot (1928-1944) and S. Dillon Ripley (1964-1984). [Image nos. P6435-2 or MAH-P6435.2]

Digital Content: Group portrait of Smithsonian Astrophysical Observatory employees, including Florence Meier Chase, fifth Secretary of the Smithsonian Institution (1928-1944) Charles Greeley Abbot (second from the left), M. Agnes Neill, Earl S. Johnston, Robert Weintraub, Anne Lucka, William Hoover, Edward D. McAlister, and unidentified others, 1930s-1940s. [Image no. 94-12569]

Digital Content: Andrew Kramer, who was the instrument maker at the Smithsonian Astrophysical Observatory from 1892 to 1953, busy at work in his workshop, circa 1940s. [Image no. 94-12568]

Digital Content: Group portrait of the meeting of Smithsonian Institution staff on February 14, 1939 to discuss proposed exhibits in the Main Hall of the Smithsonian Institution Building, the "Castle," and the 100th anniversary celebration. [Image no. 94-12562]

Digital Content: Earl S. Johnston of the Smithsonian Astrophysical Observatory, Division of Radiation and Organisms, working on a piece of equipment, 1936. [Image nos. 34425 or MAH-34425]

Digital Content: Smithsonian Astrophysical Observatory staff with Smithsonian officials, May 31, 1941. [Image no. 94-4430]

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Folder 8 Negatives (two negatives which give review of Publication 4545)

Box 187

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Folder 1 Famous People. Pictures of famous people - also a picture of Dr. Abbot on the Solar Expedition of 1901 with many other scientists.

Digital Content: Dr. W. S. Adams, retired director of the Mount Wilson Observatory and a close friend of fifth Secretary of the Smithsonian Institution, Charles Greeley Abbot, circa 1940. [Image no. 94-12602]

Digital Content: John A. Roebling, II (November 21, 1867- February 2, 1952), son of Washington A. Roebling and grandson of John A. Roebling, famous civil engineers, circa 1930. John A. Roebling, II financed several expeditions for the Smithsonian Astrophysical Observatory. [Image no. 94-12601]

Digital Content: Jesse Walter Fewkes, Bureau of American Ethnology archaeologist, circa 1920s. [Image no. 94-12599].

Digital Content: Photograph of the members of the Sumatra Eclipse Expedition in 1901: (l-r) Jewell, Eichelberger, Dr. Mitchell, Littell, Dr. Humphries, Peters, Professor Barnard, Dinwiddie, Paul A. Draper, Astrophysicist Charles Greeley Abbot (Aid Acting in Charge of the

Smithsonian Astrophysical Observatory (SAO), later to become the Director of the SAO and Fifth Secretary of the Smithsonian, 1928-1944), and Professor Skinner. [Image no. 94-12603]

Digital Content: Group portrait of the Science Service Board of Trustees Meeting, on May 1, 1941. [Image no. 94-12597]

Digital Content: Swearing in of the seventh Secretary of the Smithsonian Leonard Carmichael (1953-1964) on January 2, 1953. [Image no. 94-12592]

Digital Content: Swearing in of the seventh Secretary of the Smithsonian Institution Leonard Carmichael (1953-1964), 1953. [Image no. 94-12570]

Digital Content: Presentation (posthumously) of Langley Medal for Aerodromics to Charles Matthews Manly (through his son, C. W. Manly) on December 11, 1930. [Image no. 94-12596]

Digital Content: Photo session before presentation of bust of Alexander Graham Bell at the annual meeting of the Board of Regents of the Smithsonian Institution on December 9, 1926. [Image no. 94-12598]

Digital Content: Major John Wesley Powell (1834-1902) seated at his desk in his office in the Adams Building on F Street in Washington, D.C. Following the Civil War, circa 1890s. There were four national survey leaders, one was geologist and western explorer Powell, who led expeditions and conducted surveys of the American West. [Image no. 94-12600]

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Folder 2 Pictures - Mt. Wilson. Pictures of Mt. Wilson quarters, observational building, instruments, local region, etc.

Digital Content: Loyal Blaine Aldrich (standing), who worked for the Smithsonian Astrophysical Observatory from 1908-1955 and was its director from 1944 to 1955, and two unidentified persons, ride a tram up the side of Mt. Wilson, California, early 20th century. [Image no. 94-12574]

Digital Content: The Great Hooker 100-inch telescope used at the Mt. Wilson, California Observatory, which served as a Smithsonian Astrophysical Observatory station from 1905 to the mid 1930's, circa 1931. [Image nos. MAH 10815-B or MAH10815B]

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Folder 3 Mt. Whitney

Digital Content: SAO Shelter, Mt. Whitney, California, 1909. [Image nos. 27205 or MAH-27205]

Digital Content: Donkeys carrying people and supplies are in front of the shelter being constructed at the Smithsonian Astrophysical Observatory at Mount Whitney, California, 1909. [Image no. 78-6565]

Box 187 of 215

Folder 4 Mt. Harqua Hala. Pictures of view, observing grounds, staff, etc.

Digital Content: W. B. Ellison and Frederick A. Greeley on the route of the proposed road for the Smithsonian Astrophysical Observatory solar station at Mt. Harqua Hala, Arizona, June 1920. [Image no. 78-6570]

Digital Content: Buildings erected by the Smithsonian Astrophysical Observatory (SAO) at the Harquahala, Arizona (Mt. Harquahala) observatory which was in use from 1920 to 1926, 1924. [Image no. 78-6571]

Digital Content: Residents of the Smithsonian Astrophysical Observatory's Mt. Harquahala, Arizona, Observatory, circa 1920. [Image no. 85-1043]

[Digital Content: The Mt. Harqua Hala, Arizona Observatory of the Smithsonian Astrophysical Observatory. \[Image no. 85-1045\]](#)

[Digital Content: A small building and an automobile with two people standing by it at the Mt. Harqua Hala, Arizona Observatory, Smithsonian Astrophysical Observatory. \[Image no. 85-1047\]](#)

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Folder 5 Photographs - Miami Solar Station & Camp Lee, Virginia. Photographs of facilities, equipment, etc. Pictures of plate reading machine and of Stanley & Loyal Aldrich.

[Digital Content: Smithsonian Astrophysical Observatory conducted tests on the effects of the sun on fabrics during World War II at Camp Lee, Virginia, 1940s. \[Image no. 2003-19581\]](#)

[Digital Content: The Smithsonian Astrophysical Observatory \(SAO\) tested fabrics for the War Department during World War II at the Miami Solar Station, Miami, Florida, circa 1940-1945. \[Image nos. 38154-A or MAH-38154A\]](#)

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Folder 6 Photographs - South Africa & India, ca. 1925. Taken while on an expedition to locate a place for a solar constant station. This expedition was discussed in either the January or October 1926 issue of the National Geographic Magazine.

[Digital Content: Photograph taken by Astrophysicist and Fifth Secretary of the Smithsonian Institution Charles G. Abbot of Keetmanshoop, Southwest Africa. Abbot titled the picture "Hunting an Observatory", circa 1925. \[Image no. 94-12560\]](#)

[Digital Content: Photograph of Jai Singh's Observatory in Jaipur, India, circa 1925. Photo by Charles G. Abbot. \[Image no. 94-12558\]](#)

Box 187 of 215

Folder 7 Table Mountain Station. Pictures of surroundings, employees, instruments, etc.

[Digital Content: Dr. Charles Greeley Abbot \(Secretary, 1928-1944\) and two unidentified persons viewing site for Table Mountain Observatory in California. The Table Mountain Observatory was closed in 1961, circa 1925. \[Image no. 2003-19522\]](#)

[Digital Content: Edgar Moore and Mr. Wright on Table Mountain, California, circa 1925. \[Image no. 94-12580\]](#)

[Digital Content: The exterior of the Laboratory building at Table Mountain, California observatory of the Smithsonian Astrophysical Observatory, 1925. \[Image no. 78-6580\]](#)

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Folder 8 Tyrone Solar Station (Burro Mountain). Pictures of surroundings, observers' houses, and a cross sectional view of a Smithsonian Observing Tunnel.

[Digital Content: Outside the instrument tunnel at the Smithsonian Astrophysical Observatory's Tyrone Solar Station \(in use from 1938 to 1946\), on Burro Mountain at Silver City, New Mexico, are solar observing instruments, circa 1940. \[Image nos. SIA2011-1328 and 33550-B\]](#)

[Digital Content: Excavation work on a wall of the instrument tunnel at Tyrone Solar Station, Burro Mountain, New Mexico. \[Image no. 94-12559\]](#)

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Folder 9 Mt. Montezuma, Chile. Solar constant station, buildings, surrounding, employees, instruments, etc.

[Digital Content: Observer's quarters, foreground, and observatory at top of peak at the Smithsonian Astrophysical Observatory Solar Observing Station, Mt. Montezuma, Chile. \[Image no. 94-12572\]](#)

[Digital Content: Fritz \(A. G.\) Froiland with rows of exposure racks with tent material on them for testing at the Smithsonian Astrophysical Observatory Solar Observing Station, Mt. Montezuma, Chile, probably during World War II, circa 1940-1945. \[Image no. 94-12575\]](#)

[Digital Content: Hugh and Ruth Freeman in their home at the Smithsonian Astrophysical Observatory Solar Observing Station, Mt. Montezuma, Chile, 1927. \[Image no. 94-12573\]](#)

[Digital Content: Loyal Blaine Aldrich, who worked for SAO from 1908-1956 and was its director from 1944 to 1955, and others outside the living quarters of the Smithsonian Astrophysical Observatory solar station. The solar station operated from 1920 to 1955 at Mt. Montezuma, Chile, circa 1920. \[Image nos. MAH-11015 and 94-12565\].](#)

[Digital Content: General view of solar radiation station at Smithsonian Astrophysical Observatory Solar Observing Station, Mt. Montezuma, Chile, 1931. \[Image no. 2003-19480\]](#)

[Digital Content: Garage and shop are located in the foreground with seismograph and computing room on the right at the Smithsonian Astrophysical Observatory \(SAO\) station at Mount Montezuma, Chile, circa 1946. \[Image nos. 37666-A or MAH-37666A\]](#)

[Digital Content: Miss Drummond, Mrs. Drummond and Ruth Freeman, affiliated with the Smithsonian Astrophysical Observatory, in Calama, Chile, circa 1935-1938. \[Image no. 78-6566\]](#)

[Digital Content: The new dwelling at the Mt. Montezuma, Chile Observatory of the Smithsonian Astrophysical Observatory, looking east, 1939-1940. \[Image no. 78-6573\]](#)

[Digital Content: Harlan H. Zodtner and his wife playing golf at the Smithsonian Astrophysical Observatory Solar Observing Station at Mt. Montezuma, Chile, 1928. \[Image no. 78-6581\]](#)

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Folder 10 Mt. Wilson, Lick (Mt. Hamilton), Lowell Observatories and Chile Station of Lick Observatory. Pictures of the observatories, telescopes, etc.

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Folder 11 Pictures pertaining to Samuel P. Langley. Langley's aerodrome, Langley's bolometer, Langley's method of proof reading.

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Folder 12 Photographs - Instruments. Pyrheliometers & Pyranometers, Balloon pyrheliometer of 1914, Pyrheliometer with Loyal Blaine Aldrich (Director of APO), Pyrheliometer and pyranometer with Mr. Kramer (Mr. Kramer was the APO instrument maker), Pyrheliometer cut open for seeing the insides, Dr. Marshall's Eye Instrument, Tests of Dr. Abbot's shell rotator, Periodometer, Instrument designed by Dr. Abbot to observe stars in daylight, Slide Rule Extrapolator, Miscellaneous pictures of instruments - also designs.

Digital Content: Smithsonian Astrophysical Observatory Slide-rule machine, c. 1931-1949. [Image nos. 24622 or MAH-24622]

Digital Content: Charles Greeley Abbot's (fifth Secretary of the Smithsonian Institution, 1928-1944) scheme for true marksmanship from a smooth bore gun. [Image nos. 28554 or MAH-28554]

Digital Content: Patent drawing for Astrophysicist Charles Greeley Abbot's (Fifth Secretary of the Smithsonian Institution, 1928-1944) silver disk pyrheliometer. Corresponds to patent # 2,247,830 of July 1, 1941. [Image nos. 32803-A or MAH-32803A]

Digital Content: Astrophysicist and fifth Secretary of the Smithsonian Institution (1928-1944) Charles Greeley Abbot with his harmonic analyzer developed to discover and evaluate periodicities in solar variation. [Image no. 94-4038]

Digital Content: Photograph of silver-disk pyrheliometers and a pyranometer outside the Smithsonian Institution Building (SIB), the "Castle," circa 1931-1940. [Image nos. 9772-A or MAH-9772]

Box 188

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| Box 188 of 215 | Folder 2 Photographs - Charts and Graphs for Publications 3392 and 3397 |
| Box 188 of 215 | Folder 3 Graphs used in Publication 4390. Long Range forecasts of U. S. Precipitation. |
| Box 188 of 215 | Folder 4 Graphs and Charts used in various Publications |
| Box 188 of 215 | Folder 5 Graphs and Charts used in various Publications |
| Box 188 of 215 | Folder 6 Graphs and Charts used in various Publications |
| Box 188 of 215 | Folder 7 Graphs and Charts used in Various Publications |
| Box 188 of 215 | Folder 8 Photographs - charts and graphs. 6+ day Period in Washington & New York Weather. |
| Box 188 of 215 | Folder 9 Photographs - charts & graphs Precipitation, varve thickness, tree ring, and sunspot graphs. Peoria Precipitation, 23 year Period in Varve thickness, 23 year Period in tree rings, Sunspot numbers & magnetic activity, Bismark Precipitation. |

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| Box 189 of 215 | Folder 1 Photographs - Wood stock Precipitation Graphs and Correlation Coefficients |
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[Digital Content: Fifth Secretary of the Smithsonian Institution \(1928-1944\) Charles Greeley Abbot \(left\), Leland Clark \(far right\) and an unidentified man with Abbot's water distiller. \[Image nos. 32718-A or MAH-32718A\]](#)

- Box 189 of 215 Folder 2 Graphs of Miscellaneous Observations U. S. A.
- Box 189 of 215 Folder 3 Photographs - Miscellaneous Graphs & Charts, 1920-1960
- Box 189 of 215 Folder 4 Photographs - Graphs of Great Lake Levels
- Box 189 of 215 Folder 5 Photographs - Clark Mountain Region & Cerro Tololo. Photographs (ca. 1954) taken of this region when Loyal Aldrich (Director of APO) was looking for another location for a third solar constant station. This third station never came into existence. One picture of Cerro Tololo, ca. 1964.
- Box 189 of 215 Folder 6 Photographs - Solar Utilization Instruments. There is a written description of Dr. Abbot's Flash Boiler & Solar Heat Collector; Ericson Solar Motor.
[Digital Content: Astrophysicist Dr. Charles Greeley Abbot's solar cooker, which cooks food by solar energy, at Mount Wilson, California, c. 1920s. \[Image nos. MAH 11020-B or MAH11020B\]](#)
- Box 189 of 215 Folder 7 Photographs - Drawings & Designs
- Box 189 of 215 Folder 8 Photographs - Spectra and Celestial Objects
- Box 189 of 215 Folder 9 Photographs - Museum Specimens and Meteor Pictures
[Digital Content: The dinosaur known as "Diplodocus longus" in the "Extinct Monsters Hall" of the National Museum of Natural History, late 1980s. \[Image nos. 32017-A or MNH-32017A\]](#)
- Box 189 of 215 Folder 10 Photographs - Smithsonian Institution Building, APO in D. C., and Miscellaneous. Pictures of S. I. Building & APO Shacks behind the S. I. Building, The Yacht Carnegie (made magnetic surveys of oceans), Article about Signal Corps & Weather Bureau, Pictures of Wright Brothers - Wind Tunnel, Photograph of letter from Advisory Committee on the Weather Bureau requesting appropriations be given to Dr. Abbot to continue solar constant research - May 5, 1936.
[Digital Content: Cliff Palace, Mesa Verde, Colorado, before excavation and repair by the Bureau of Ethnology, Smithsonian Institution, circa 1906. Photo by C. D. Hazzard. \[Image no. 2003-19495\]](#)
[Digital Content: View of the Smithsonian Institution Building, the Castle, after a snow fall in 1903. \[Image no. 94-12566\]](#)
[Digital Content: Astrophysicist Charles Greeley Abbot, \(Fifth Secretary of the Smithsonian, 1928-1944\), playing tennis behind the Smithsonian Institution Building, the "Castle," next to the Smithsonian Astrophysical Observatory, in the South Yard. \[Image nos. 15277 or MAH-15277\]](#)

[Digital Content: The Smithsonian Astrophysical Observatory located in the South Yard behind the south facade of the Smithsonian Institution Building, 1909. \[Image nos. 78-6578 or SA-756\]](#)

[Digital Content: Loyal B. Aldrich of the Smithsonian Astrophysical Observatory \(1908-1955\) and Astrophysicist Charles Greeley Abbot \(Fifth Secretary of the Smithsonian, 1928-1944\) playing tennis behind the Smithsonian Institution Building, next to the Smithsonian Astrophysical Observatory, in the South Yard, 1920. \[Image nos. 15277-A or MAH-15277A\]](#)

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Series 10: PRECIPITATION AND TEMPERATURE TABLES.

Box 190

Box 190 of 215 Precipitation & Temperature Tables for: Algiero, Argentina, Austria, Australia, Brazil, Canada, Ceylon, China, Denmark, England, Egypt, Finland, France, Germany, Greenland, Iceland, India, Japan, Mexico, Poland, Russia, South Africa, Tunis (seems mixed); Temperature Charts - 5 month Running Means - U. S. Stations

Box 191

Box 191 of 215 Folder 1 U. S. Precipitation Tables

Box 191 of 215 Folder 2 U. S. Precipitation Tables

Box 191 of 215 Computer readouts & temperature data for various cities

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Series 11: MISCELLANEOUS CORRESPONDENCE, MAINLY NON-SMITHSONIAN, CA. 1910-1949.

Includes correspondence dealing with dinner engagements, lectures, society memberships, requests for publications, long-range weather forecasting, publishing matters, and activities of committees that Abbot was associated with. Typed manuscripts occur throughout.

Box 192

- Box 192 of 215 Folder 1 A. Includes Agricultural Department, 1934-1938 - letters between Dr. Abbot and the Agricultural Department. Letters requesting solar constant data and discussions on long range weather forecasting. Letter February 17, 1936 gives description of conference held for the purpose of surveying the field of forecasting. Also Alabama College, 1935 - letters between Dr. Rosa Lea Jackson and Dr. Abbot about Dr. Abbot giving a talk at the college.
- Box 192 of 215 Folder 2 Abbot, C. G. Includes letters (September & October 1931) to Miss M. Agnes Neil (Abbot's secretary) from Dr. Abbot while on his trip to Paris as a delegate from the Smithsonian Institution to the Geographical Congress meeting. See page 4 Vol. VI Annals; Letter May 9, 1910 stating bestowal of Draper medal upon Dr. C. G. Abbot; Letters of introduction from Secretary Walcott, 1919 & 1921 for Dr. Abbot while on excursions outside U. S.; Letter to Dr. Abbot from Secretary C. D. Walcott about establishing Harqua Hala solar constant station; "Note on Work of the APO, November 1925 to May 1926"; Dr. Abbot's Itinerary for trip to France, September & Oct. 1931; Dr. Abbot's resignation as Secretary dated 6/30/1944.
- Box 192 of 215 Folder 3 Abbot, H. L. Dr. C. G. Abbot prepared a memoir on H. L. Abbot for the National Academy of Sciences. Includes a portrait of General Henry L. Abbot; Letters between Dr. Abbot & a Dr. Freeman, Dr. Abbot trying to get confirmation on a story about H. L. Abbot; Letters between Dr. Abbot and Mr. Paul Brackett of the National Academy of Sciences on H. L. Abbot's memoir.
- Box 192 of 215 Folder 4 Ag - Al (blank)
- Box 192 of 215 Folder 5 American Institute of Physics. Letters to Dr. Abbot concerning his speech at the November 1939 American Institute of Physics describing the vacuum bolometer used at 3 field stations.
- Box 192 of 215 Folder 6 American, A - Z. Includes article on Henry Larcom Abbot for the Proceedings of the American Academy of Arts and Sciences, 1934; American Chemical Society - Letters and an abstract of Dr. Abbot's address to this society on December 19, 1940; American Institute of Electrical Engineers, 1938-1941. Letters about Abbot's talk - also article for the ATEE; The American Mercury, 1946; American Meteorological Society, 1936-1944 (Rebuttal to H. W. Clough article "Solar Variations Are Real" by C. G. Abbot; "The Variation of the Sun & Weather" by C. G. Abbot; "Weather Predetermined by Solar Variation" by Abbot); American Society of Mechanical Engineers Letters concerning Dr. Abbot's lecture to this Society, 1939; American Society of Tool Engineers concerns lecture of 1948.

- Box 192 of 215 Folder 7 An - Az, 1928-1947. Includes Associated Press typed article "The Sun & The Weather" by Abbot.
- Box 192 of 215 Folder 8 Appleton & Co. (D), 1928-1930. Letters to Dr. Abbot concerning revision of "The Sun" by Dr. Abbot.
- Box 192 of 215 Folder 9 B. Includes bibliography of the Astrophysical Observatory; Letters between Dr. Abbot and Senator J. A. Bankhead pertaining to weather predictions for the cotton states; Blue Hill Meteorological Observatory; British Association for the Advancement of Science requesting Dr. Abbot give a speech; British Embassy; Brooklyn Institute of Arts & Sciences about lectures to be given by Dr. Abbot 1931, 1941 & 1944; Rev. J. H. Brown, 1930-1942; Brunt, D. - Letters between Brunt, Abbot & Royal Meteorological Society - Abbot's request for space in the Q. J. of the Royal Meteorological Society for rebuttal against an article by Brunt.
- Box 192 of 215 Folder 10 Brashear Celebration, Nov. 25, 1940. Includes letters pertaining to Dr. Abbot giving a lecture at John A. Brashear's 100th birthday celebration; and "John A. Brashear, A Lover of The Stars" by C. G. Abbot.
- Box 192 of 215 Folder 11 Brent, Catherini Hart
- Box 192 of 215 Folder 12 C, 1926-1947. Includes Cabot, Godfrey L.; California Institute of Technology; Congress - Rep. Clarence Cannon; Chamber's Encyclopedia (Solar Power by C. G. Abbot); Chevy Chase School - requesting Dr. Abbot give a talk; Civilian Club of Washington, D. C., 1941; Case School of Applied Science (request speech); Technology Club of New York (Dinner request); Cummings, Robert A. - Interested in obtaining Abbot's patent #2,367,254.
- Box 192 of 215 Folder 13 Case School of Applied Sciences, 1930. Letters pertaining to a lecture Dr. Abbot gave at the inauguration of the new President of the case School of Applied Science. Lecture called "The Opportunities of Science." Copy of speech in this folder.
- Box 192 of 215 Folder 14 Church Matters
- Box 192 of 215 Folder 15 Courts, G. W., 1934-1940. Letters concern weather forecasting.
- Box 193
- Box 193 of 215 Folder 1 D, 1930-1948. Includes Dictionary of American History (article "The Smithsonian Institution" by Dr. Abbot enclosed in these letters); Dietz, David - Science Editor, Scripps-Howard Newspaper; Dorno, C. (with these letters, article by Dr. Abbot called "Washington Temperatures & Short Period Solar Variations" published in Strahlentherapie; Duke Chapter of the Society of the Sigma Xi pertains to Dr. Abbot's lecture to this society; Dunn, Gano.

- Box 193 of 215 Folder 2 E, 1921-1949. Includes Thomas Alva Edison Foundation Campaign (Dr. Abbot was on the Scholar Plan Committee); Thomas A. Edison, Inc. (Letters - Abbot willing to consult them on solar heating project; pamphlet "The Performance of Flat Plate Solar Heat Collectors"); English Speaking Union.
- Box 193 of 215 Folder 3 Encyclopedia Britannica, 1928-1929, 1935 and 1943. Includes an article Abbot wrote on Joseph Henry; Letters requesting Dr. Abbot write science articles for them; "Recent Advances In Weather Science" by Dr. Abbot; "The Stratosphere" by Dr. Abbot.
- Box 193 of 215 Folder 4 F, 1929-1949. Includes Deed to Fort Lincoln Cemetery; The Federal Club - Dr. Abbot elected President of Club; Forsythe, W. E. (General Electric Co.) - letters referring to book "Measurement of Radiant Energy" which Dr. Abbot wrote sections of; Foundation for Study of Cycles; Franklin Institute.
- Box 193 of 215 Folder 5 Gellatly Matters, 1945. The letters concern a trial against the Smithsonian, brought about by a Mrs. Gellatly trying to reclaim an art collection that her deceased husband gave to the Smithsonian. She claimed the Gellatly collection was received by the Smithsonian without proper authorization. The Court of Claims judged in favor of the Smithsonian.
- Box 193 of 215 Folder 6 General Electric Co., 1932 and 1935. Letters concerning a speech to be given by Dr. Abbot to the electrical industry; Also letters between Dr. Abbot and a Mr. Swope about car driving hazards.
- Box 193 of 215 Folder 7 G, 1922-1947. Includes George Washington University - Letters telling of the University giving Dr. Abbot an Honorary Doctors degree; Goddard, R. H. - Letters between Mrs. Esther Goddard and Dr. Abbot about Abbot helping Dr. Goddard (Also articles "The Goddard Rocket" and "The Present State of the Goddard High Flight Rocket."); B. F. Goodrich Co. - Dr. Abbot gave a speech called "A Statesman's Bequest"; Greek War Relief Association - Dr. Abbot acted as the Honorary Chairman for the District of Columbia on this associations committee.
- Box 193 of 215 Folder 8 H, 1939-1942. Includes The Hartford Engineers Club (Dr. Abbot's address to this Club); Harvard University - concerns the Harvard Tercentenary Conference; Harvard College Observatory - concerns 6 lectures to be given by Dr. Abbot (summary of his 6 lectures is included among these letters); Hayden Planetarium - letters discussing its publication called "The Sky"; Herbert Hoover; Howard, L. O. (Bureau of Entomology) letters about Mr. Howard's retirement.
- Box 193 of 215 Folder 9 Insurance - Auto. Includes title to car.
- Box 193 of 215 Folder 10 Insurance - Property
- Box 193 of 215 Folder 11 I, 1945. Includes Illuminating Engineering Society.

- Box 193 of 215 Folder 12 J. Includes Johnson, Albert.
- Box 193 of 215 Folder 13 K. Includes Kenwood Golf and Country Club (concerns Dr. Abbot's membership & dues); Kissel, M. S. - pamphlet "The Revelation in Thunder and Storm" by Kissel; Kornitzer, Henretta - requesting appointment for a blind child to visit with Dr. Abbot; Kramer, Andrew Jr..
- Box 194
- Box 194 of 215 Folder 1 L, 1927-1946. Includes Lamborne, Don R. - Letters between Lt. Lamborne and Dr. Abbot about a possible business relationship concerning Dr. Abbot's Solar Utilization instruments; Lantern Slides - Index; Laymen's Missionary Movement; Lewis, G. W. - Letters concerning a dinner in honor of Dr. George W. Lewis; Lindbergh, Charles A., 1927, 1932, 1938 - Letters referring to the Hubbard Gold Medal awarded Lindbergh and a sympathy letter to Lindbergh from Dr. Abbot about the loss of Lindbergh's boy; Lodge, John Ellerton - pamphlet about Mr. Lodge; International Longfellow Society.
- Box 194 of 215 Folder 2 MacMillan Co., "Every Day Mysteries," 1922-1948. Includes Letters between Dr. Abbot and Miss Louise Seaman of the MacMillan Co. and E. E. Slosson of Science Service about publishing problems, etc. of Dr. Abbot's book "Everyday Mysteries"; Article attached with July 15, 1937 letter to Laidlaw Brothers called "The Two-Cent Investment" by Dr. Abbot; Also envelope containing Newspaper Notices on this Book.
- Box 194 of 215 Folder 3 Massachusetts Institute of Technology, 1936-1945. Includes Report of Visiting Committee on Museum; Folder entitled "MIT Museum Policy & Program, February 1, 1945."
- Box 194 of 215 Folder 4 Mt. Wilson Observatory Advisory Committee, 1929. Includes Summaries of meetings and news articles dated January 20, 1929 about the 200 inch telescope.
- Box 194 of 215 Folder 5 M, 1924-1944. Includes Miller, Dayton C.; Miller, Fred B. - letters discussing weather forecasting and actual results; Moseley, E. L. - letters refer to Moseley's tree ring work and discuss cycles in precipitation etc.; The following articles by E. L. Moseley are enclosed with letters ("Long time Forecasts of Ohio River Floods"; "The Ninety Year Precipitation Cycle"; "Solar Influence on Variations In Rainfall In the Interior of the United States"; "Recurrence of Floods & Droughts After Intervals of About 90.4 Years"); The Military Engineer (Letters concerning the article "Solar Radiation As A Power Source" which was written by Dr. Abbot for this Journal - Typed copy of this article enclosed with these letters).
- Box 194 of 215 Folder 6 National Advisory Committee For Aeronautics, 1928-1945. Includes Photographs and Minutes of Committee meetings.
- Box 194 of 215 Folder 7 Na, 1921-1949. Includes National Capital Amateur Astronomers Association (Abbot was an honorary member); National Council of

Supervisors of Elementary Sciences - Dr. Abbot gave a brief message to this society at a dinner (This manuscript is enclosed in these letters); National Emergency Committee for Christian Colleges in China; National Home Library Foundation (Enclosed is a manuscript of a Radio Talk with Dr. Abbot); Nature - Letter to editor in rebuttal to a review given to Dr. Abbot's publication of November 21, 1925 of Nature.

Box 194 of 215 Folder 8 Ne - Ny. Includes Nicholson, Dr. Seth B. - In these letters there is an article for publication in the Astronomical Society of the Pacific called "Astrophysical Observatory of the Smithsonian Institution" by C. G. Abbot.

Box 195

Box 195 of 215 Folder 1 O, 1940. Includes Old North Church.

Box 195 of 215 Folder 2 Patents, etc., 1936. Includes Patent Celebration - Dr. Abbot helped Program Committee and assisted in the Centennial Celebration of the American Patent System.

Box 195 of 215 Folder 3 P. Includes Patten, Roland T. (Secretary to Honorable Clyde H. Smith); Pershing, General John J.; Popular Mechanics Magazine - referred to photographs sent for articles which Dr. Abbot wrote for this magazine. There is also a manuscript by Dr. Abbot called "The Masterful Sun"; Prescott, Samuel C. - personal letters between Prescott and Abbot. These men were classmates at M.I.T.; President Franklin D. Roosevelt; Program Service Co.; Putnam, Herbert - letters concerning 40th Anniversary of Mr. Putnam with Library of Congress.

Box 195 of 215 Folder 4 Q

Box 195 of 215 Folder 5 Research Corporation, 1928-1947. Includes Letters pertaining to patents, meetings, problems of the committee, etc.

Box 195 of 215 Folder 6 R, 1924-1946. Includes RCA Victor - This Company donated D-Day Records to Smithsonian Institution for preservation; Rathbun, Miss - letters between Dr. Schmitt of the Division of Marine Invertebrate and Dr. Abbot about a dinner to be given in honor of Miss Rathbun; Rochester Academy of Science - letters requesting and pertaining to a lecture by Dr. Abbot to this Society; Rochester, University of, 1944 letters pertain to a lecture by Dr. Abbot; Roosevelt, Franklin D.; The Rotarian - letters requesting Dr. Abbot write an article for this magazine. Manuscript by Dr. Abbot enclosed in letters called "The Sun & The Weather"; The Royal Canadian Institute - letters pertaining to a lecture by Dr. Abbot. Manuscript by Abbot called "Studying The Sun In Many Lands" enclosed; Russell, H. N. - requested information from Dr. Abbot on solar constant for "Manual of Astronomy"; Rutgers University.

Box 195 of 215 Folder 7 Sa-Sn, 1928-1947. Includes Sears, Dr. F. H. (of Mt. Wilson Observatory) requested articles from Dr. Abbot on St. John for the

Astrophysical Journal (Manuscript by Dr. Abbot "Doctor C. E. St. John"; Manuscript by Dr. Abbot "Doctor Charles E. St. John"; Manuscript by Dr. Abbot "Charles Edward St. John"); St. Louis Post-Dispatch - requested article from Dr. Abbot. Manuscript "Discoveries of The Future" by Dr. Abbot enclosed in letters; Schneider, Rudolf (Director of the State Meteorological Institute, Prague II). Enclosed manuscript "Some Periodicities In Solar Physics and Terrestrial Meteorology"; Science Council - arrangements for Dr. Abbot to give lecture at a Science Council Luncheon - brief summary of possible lecture enclosed in letters; Search light Memorandum (March 21, 1918) "On The Theory And Use of A Search light"; The Shakespeare Society of Washington; Sheen, Monsignor; Smithsonian Scientific Series - letters showing appreciation of Dr. Abbot's work in helping in the revision of this series.

- Box 195 of 215 Folder 8 Science Service, 1942-1946. Includes "Boiled Cider Applesauce" by Dr. C. G. Abbot; Invitations to dinners; November 5, 1945 Dr. Abbot's resignation from Board of Science Service.
- Box 195 of 215 Folder 9 Societies - Amateur Astronomers Association, 1927. Includes Letter 1927 requesting Dr. Abbot's name be put on letterhead of this association.
- Box 195 of 215 Folder 10 Societies - American Association for the Advancement of Science, 1935-1945. Includes Description of Dr. Abbot's exhibit at the St. Louis meeting of the AAAS, 1935; Article "Immediate and Long Deferred Periodic Effects of Solar Variation on Weather and Climate"
- Box 195 of 215 Folder 11 Societies - American Astronomical Society, 1941, 1943. Includes "Variation of the Sun" by Dr. Abbot.
- Box 195 of 215 Folder 12 Societies - American Geophysical Union, 1945. Includes Pamphlet "Statutes & By Laws of The American Geophysical Union
- Box 195 of 215 Folder 13 American Meteorological Society, 1921 and 1943. Includes "Variation of the Sun" by Dr. Abbot
- Box 195 of 215 Folder 14 American Philosophical Society, 1934-1942. Includes information on Dr. Abbot elected as one of the Councilors; "Carl Barus" obituary by Dr. Abbot; Copies of a broadcast (May 15, 1942) given by Dr. Abbot for this Society - "The Smithsonian Institution as an Illustration of Internationalism in Science."
- Box 195 of 215 Folder 15 California Academy of Sciences, 1927 and 1943. Includes Dr. Abbot was made an Honorary member; Letters concerning Dr. Abbot's presence at the 200th Anniversary of the Founding of the American Philosophical Society
- Box 195 of 215 Folder 16 Societies - American Academy of Arts & Sciences, 1915, 1921 and 1935. Includes Announcement of Dr. Abbot being awarded the Rumford Premium for his solar radiation work. (Also news article).

Box 196

- Box 196 of 215 Folder 1 Societies - International Astronomical Union, 1931-1948. Includes "Report on Solar Radiation Work of The Smithsonian Institution," by Abbot; Letter received on April 10, 1935 - Requests photos for use as an APO exhibit at the Congress of the International Astronomical Union in Paris, July 1935; Letters contacting various people (from Abbot) informing them that Dr. Abbot would attend meeting at Stockholm around August 3-10, 1938.
- Box 196 of 215 Folder 2 Societies - International Geodetic and Geophysical Union, 1939
- Box 196 of 215 Folder 3 Societies - International Geographical Union, 1932 and 1936
- Box 196 of 215 Folder 4 Societies - 1936 International Meteorological Association (Ozone Sub Committee)
- Box 196 of 215 Folder 5 Societies - International Research Council, 1926-1947 (Comm. on Solar and Terrestrial Relationships). Includes "Report on Solar and Terrestrial Relationships," by Abbot; "Study of Weather Periodicities," by C. G. Abbot; "Recent Work of The Smithsonian Astrophysical Observatory," by C. G. Abbot; "Progress of Research on Solar & Terrestrial Relations," by C. G. Abbot; Letters concerning various meetings, reports of activities of commission, etc.
- Box 196 of 215 Folder 6 Societies - National Academy of Sciences, 1915-1948. Includes Letter April 22, 1915 - notification of Dr. Abbot's membership; Letters (while Dr. Abbot was chairman of the Committee on Nominations) concerning a Dr. Keith as Treasurer and other nominees; "Preliminary Study of Temperature Effects of Short Solar Fluctuations" by C. G. Abbot; Letter of August 25, 1937 to the Academy from Dr. Abbot giving a short account of Dr. Walcott as an administrator; Letter January 11, 1941 Dr. Abbot resigns from the Academy's Finance Committee
- Box 196 of 215 Folder 7 Societies - National Research Council, 1933-1939
- Box 196 of 215 Folder 8 Societies - National Research Council Division of Federal Relations, 1929, 1935, 1937, 1938
- Box 196 of 215 Folder 9 Societies - New Hampshire Academy of Sciences, 1928
- Box 196 of 215 Folder 10 Societies - Optical Society of America, 1921, 1935. Includes Correspondence with W. B. Rayton - Dr. Abbot accepted to represent and receive for Dr. George E. Hale the Ives Medal of the Optical Society
- Box 196 of 215 Folder 11 Societies - Pennsylvania, Univ. of Bicentennial Celebration, September 16-20, 1940. Includes "Periodicities In Solar Variation Reflected In Weather" by Abbot; "Dendrochronology And Studies In Cycles" by A.

E. Douglass; "Human Achievements, Climatic Pulsations, and an Ozone Hypothesis," by Ellsworth Huntington; "Conservation And Changing Environment" by Paul B. Sears. These above letters concern the Bicentennial Celebration and Dr. Abbot's presiding at the Round Table. Letters concern the various speakers and their speeches.

- Box 196 of 215 Folder 12 Societies - Philosophical Society of Washington, 1922
- Box 196 of 215 Folder 13 Royal Meteorological Society. Includes Dr. Abbot elected an Honorary Member of the Society on January 21, 1925.
- Box 196 of 215 Folder 14 Society of Sigma XI, 1932-1937. Includes Letters pertaining to Dr. Abbot's membership & lectures
- Box 196 of 215 Folder 15 Societe - Astronomique De France
- Box 196 of 215 Folder 16 Societies - Washington Academy of Sciences. Includes "Resolution of the Death of Dr. Charles Doolittle Walcott," 1927; Academy's list of scientific books
- Box 196 of 215 Folder 17 Sterne, Theodore E. Includes 5 copies of comment by Dr. C. G. Abbot "Statistician Strongly Confirms Periodicities In Smithsonian Solar Constant Values, and Overthrows Dr. Paranjpe's Disproof of The Same Periodicities"; 1939 "On Periodicities In Measures of The Solar Constant" by Theodore Eugene Sterne; 1940 "On Possible Changes In Solar Constants" by T. E. Sterne
- Box 196 of 215 Folder 18 Sp - Sy, 1932-1947. Includes Personal letters' letters requesting Dr. Abbot attend dinners, and requesting lectures from Dr. Abbot
- Box 196 of 215 Folder 19 Tippenhauer Weather Service, 1931-1940. Includes Correspondence between Dr. Abbot and Louis Gentel Tippenhauer and brother about various methods of long range forecasting; Papers by Tippenhauer
- Box 196 of 215 Folder 20 T, 1928-1944. Includes Telkes, Maria - paper "Solar Energy" by Telkes describing various attempts to Utilize Solar Energy (also letters between Telkes & Abbot about solar utilization); The International Association of Torch Clubs and article by Dr. Abbot "Science A Harbinger of Peace"; Toronto, Univ. of - Letter of September 22, 1933 offering a degree of Doctor of Laws to Dr. Abbot and letters concerning trip to Toronto for this honor
- Box 197
- Box 197 of 215 Folder 1 U, 1927-1939. Includes United States Marine Corps - requesting Dr. Abbot give speech and letters making necessary arrangements; University - Broadcasting Council (request for 5 minute talk by Dr. Abbot; Manuscript of talk "The Effect of Solar Radiation on Weather" on February 16, 1937)

- Box 197 of 215 Folder 2 Van Nostrand Co., D. Includes Letters pertaining to the book "The Earth and The Stars" by Dr. C. G. Abbot & Dr. Mitchell which was published by this company.
- Box 197 of 215 Folder 3 V. Includes Vassar College - requesting Dr. Abbot give a lecture; Villaverde, Felipe - requesting translation rights for Dr. Abbot's books "The Sun" and "The Earth and The Stars"
- Box 197 of 215 Folder 4 Wa, 1928-1946. Includes Watkins, Mary A. (1928-1939) - Receipts of payments made to Mary Watkins (Dr. C. G. Abbot was Trustee of this Estate); Washington City Bible Society - Dr. Abbot accepted membership on Executive Committee; Walsh, Senator David D. - letters concerning Smithsonian Gallery of Art Commission; War Dept. & Army Air Forces (Confidential letters), 1945-1946. Dr. Abbot helped advise on methods of forecasting weather (over Japan) to help in struggle against Japan; Washington Board of Trade; Washington Society of Fine Arts - letters requesting Dr. Abbot's presence at various dinners.
- Box 197 of 215 Folder 5 Wetmore, Alexander, 1927-1947. Includes letters between Dr. Abbot and Dr. Wetmore while Dr. Abbot was Secretary and Dr. Wetmore Asst. Secretary and while Dr. Abbot was Research Asst. and Dr. Wetmore, Secretary. A few letters were written while Dr. Wetmore was on some type of expedition (Dominican Republic?). Some letters referred to dinners while most concerned Dr. Wetmore's activities as Asst. and Acting Secretary.
- Box 197 of 215 Folder 6 We. Includes Weber, Dr. Sophus, 1948 - letters concerning Radiometer phenomena and Dr. Abbot's Radiometer; Wensel, H. T., 1939-1940 (Dr. Abbot's paper "Smithsonian Temperature Measurements" for the A.I.P. Temperature Symposium).
- Box 197 of 215 Folder 7 Wheeler, R. H., 1937-1938, 1941-1942, 1950. Includes lengthy letters between Dr. Abbot & Prof. Wheeler. Dr. Abbot acted somewhat like a critic on Dr. Wheeler's manuscript "climatic Cycles: A methodological Approach" and other papers, (also article "Climate & Human Behavior" by Wheeler) Dr. Abbot was frank about Wheeler's work and at times would suggest some one else look his papers over. Concerned Long Range Climate.
- Box 197 of 215 Folder 8 Wi, 1939. Includes Wilton - Letters pertaining to Dr. Abbot attending and giving speech at his home town's (Wilton, N. Hampshire) 200th Anniversary. Enclosed in letters is Dr. Abbots' manuscript "The Memorable Post"
- Box 197 of 215 Folder 9 Wn, 1932, 1943. Includes Wright, Orville - Letters requesting Dr. Abbot's presence at a memorial ceremony at Kill Devil Hills, North Carolina in honor of Orville Wright.

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Folder 10 Y. M. C. A., 1934-1940. Includes Dr. Abbot served on this organization's Board of Managers.

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Folder 11 Y, 1935. Includes The Yale Review.

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Series 12: PUBLICATIONS.

Box 198

Magazines, Articles by Dr. C. G. Abbot

- Box 198 of 215 Folder 1 Bulletin of the American Meteorological Society. Includes February 1927, p. 29, "Measurements of Solar Radiation and Their Interpretation" by Charles F. Marvin. In this article he criticized solar variation measurements and Dr. Abbot replied in issue of April 1927; February, 1934 - "Forecasts of Solar Variation" by Abbot; November 1935, "Solar Radiation & Weather Studies" and "Mt. St. Katherine, an excellent solar radiation station" Reviews, p. 277; December 1936, "Solar Variations are Real" by Abbot, p. 347; April 1940, "On Periodicities In Smithsonian Solar Constant Values" by Abbot, p. 156.
- Box 198 of 215 Folder 2 Nature Magazine. Includes July 29, 1920, "Solar Variation and the Weather," by Abbot, p. 678; April 29, 1939, p. 705, "Solar Variation and the Weather," by Abbot.
- Box 198 of 215 Folder 3 Science Magazine (articles). Includes March 23, 1923, p. 354, "Solar Eclipse of September 10" by Abbot; June 12, 1925, p. 610, "Weather Conditions at Sumatra" by C. Braak, & C. G. Abbot; October 2, 1925, p. 307, "Solar Variation and the Weather," Abbot; November 13, 1925, p. 426, "Solar Variation and the Weather," by Abbot; June 22, 1928, p. 634, "Variation In Solar Radiation," by C. G. Abbot; May 10, 1929, p. 504, "Further Observations of Stellar Energy Spectra," by Abbot; December 14, 1934, p. 543, "Energy Spectrum Measurements of the Hotter Stars," by Abbot.
- Box 198 of 215 Folder 3 Science Magazine (articles). Includes December 27, 1935, p. 623, "Periodic Solar Variation and Associated Weather Phenomena," by Abbot; May 22, 1936, p. 482, "Preliminary Study of Temperature Effects of Short Solar Fluctuations" Abbot; May 3, 1940, p. 417, "Presentation of The Charles Doolittle Walcott Medal and Honorarium To A. H. Westergaard" by C. G. Abbot; April 11, 1941, p. 351, "A Prophecy Fulfilled," by Abbot; July 2, 1943, p. 17, "Harvard Meteorological Studies, No. 6. Heat Transfer by Infrared Radiation in the Atmosphere" by C. G. Abbot; March 29, 1946, p. 407, "Correlation of Cycles In Weather, Solar Activity, Geomagnetic Values, and Planetary Configurations," by C. G. Abbot.
- Box 198 of 215 Folder 4 Papers & Magazines. Includes Pictorial California, March 1927, p. 11, article about Table Mt. Solar constant station; The Youth's Companion (March 18, 1920 "Wonderful Walter," p. 159, by C. G. Abbot; May 6, 1920, p. 271, "How Mr. Techman Surprised The Plumber," Abbot; October 14, 1920, p. 595, "How Many Stars Are There?," by C. G. Abbot; September 11, 1919, "How The Sun Makes Plants Grow"); Country Gentleman, p. 7, "Weather In Cycles," by Ben Hibbs, this article is about APO work; Today September 26, 1936, p. 8, "High Priest of The Sun" by G. Edward Pendray - article about Dr. Abbot; The Rotarian, March 1937, "What's The Weather Next Year?" by C. G.

Abbot; The Sky (November 1937, p. 17, letter by Dr. Abbot; February 1939, p. 3, "The Smithsonian Astrophysical Observatory" by C. G. Abbot).

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Folder 5 Magazines. Includes Electrical Engineer, p. 294, "Utilizing Heat From the Sun," by C. G. Abbot, July 1939; The Technology Review, p. 221, "A Life of Research," by C. G. Abbot, February 1927; The World Today, December 1935, p. 29, "Recent Advance In Weather Science". Origin of Storms, Long Range Forecasting, etc.," by C. G. Abbot; Science and Invention, June 1929, p. 107, article about Abbot; The Clevelander, December 1930, p. 11, "The Life of Science," by C. G. Abbot; California Monthly, November 1935, p. 9, "Looking At The Sun From Sinai," by Alfred F. Moore '08 (APO employee); The Military Engineer, p. 70, "Solar Radiation As A power Source," by C. G. Abbot; The Heating & Ventilating Engineer, p. 309, "Abbot's Solar Heat Collector," January 1937; Scientific American (August 1934, p. 79 & 107, Statement of Dr. Abbot's; June 1935, p. 285, "Personalities In Science," about Dr. Abbot; November 1937, p. 278, mentions Dr. Abbot; July 12, 1919, "Rotating Projectiles from Smooth-Bore Guns").

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Folder 6 Monthly Weather Review. Includes March 1920, p. 147, "Discrepancies Between Angstrom and Smithsonian Instruments" by C. G. Abbot; January 1919, "The Solar Constant Station At Calama, Chile," by C. G. Abbot; February 1923, "Values of The Solar Constant, 1920-1922," by Abbot & colleagues; May 1926, "A New Proof of the Variability of the Sun, Based on the Mt. Wilson Observations" Abbot; Monthly Weather Review Supplement #27, July 1926 "Montezuma Pyrheliometry," by C. G. Abbot.

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Folder 1 Pamphlets & Reprints by Abbot. Includes The Scientific Monthly (March 1946 "The Sun Makes The Weather"; June 1925 "Where Are The Stars?"; September 1926 "Religion And Man's Origin"; November 1946 "The Smithsonian In A World at War"; December 1926 "A Mountain Solar Observatory"; September 1940 "Utilizing Sun Rays"); Bulletin of The American Meteorological Society (December 1936, Volume 17 #12 "Solar Variations Are Real"; December 1940, Volume 21 # 21 "The Variation of the Sun and Weather"; March 1964 Volume 45 #3 "Precipitation at Nagpur India"); Science (August 5, 1949, Volume 110 #2849, "Precipitation Cycles"; Volume 78 #2032, "Sun-Spots and Weather"; Volume 45 #2478, June 26, 1942, "The Smithsonian Institution As An Illustration of Internationalism In Science"; Volume 96 #2497, November 6, 1942, "Smithsonian Enterprises"; Volume 104 #2693, August 9, 1946, "Astrophysical Contributions of the Smithsonian Institution"); Proceedings of the National Academy of Sciences (Volume 5, September 1919, "Recent Simultaneous Measurements of the Solar Constant of Radiation at Mt. Wilson, California, and Calama, Chile"; "Rotating Projectiles From Smooth - Bore Guns," September 1919, Volume 5; Volume 6, January 1920, "A New Method of Determining The Solar Constant of Radiation"; Volume 8 #7, "The Larger Results of 20 Years of Solar Radiation Observations," July 1922; Solar Variation, A Weather Element, Volume 56 #6, December 1966); The Astrophysical Journal (Volume 97, #1, January 1943, "Note on Dr. Sterne's Review of Volume VI of The Annals of the Astrophysical Observatory of the Smithsonian

Institution"); The Yale Review, April 1927 "The Weather And Radiation"; The Journal of Solar Energy (Volume 1 #1, January 1957, "Weather And Solar Variation"; Volume II #1, January 1958, "Detailed Procedure Used in Abbot's Method of Long-Range Weather Forecasting"); The Bicentenary Number of the American Philosophical Societies Proceedings, Volume LXVI, 1927, "Accomplishments of Modern Astronomy"; Year Book 1937 of The American Philosophical Society "Carl Barus, 1856-1935"; Quarterly Journal of the Royal Meteorological Society "Rainfall Variations"; Miscellaneous Smithsonian Articles ("Abbot's Solar Heat Collector"; "Studies of the Sun and Stars"; "Smithsonian Researches on Solar Radiation"; "Studying Sun Rays In Africa, Chile and California"; "As Langley Predicted, Experiments Show The Prolonged Influence of Solar Changes on Terrestrial Temperatures"; "Solar Variation and Weather - Review of Smithsonian Publication 4545"; "Electric Power From Sun Rays"; Smithsonian News Releases, 1936, 1939); Journal American Water Works Association, Volume 40 #7, July 1948, "The Sun And Precipitation"; Ohio State Univ. Bulletin, Volume XXXVI #3, September 15, 1931, "Solar Radiation"; Proceedings of the American Academy of Arts and Sciences, Volume 70 #10, 1936 "Henry Larcum Abbot"; Special Applications and Methods "Smithsonian Temperature Methods"; Strahlentherapie, 1931 "Uber Temperaturen in Washington und Kurzperiodische Veranderungen in der Intensitat der Sonnenstrahlung"; "The Australian Solar Radiation Station"; Daily Science News Bulletin, December 28, 1922, "Who Will Promote Science?" Abbot; Booklets (Business Digest, April 1937, p. 7, "What's the Weather-Next Year," by Abbot; Journal of Chemical Education, March 1932, p. 416, "Solar Radiation," Abbot; The Scientific Monthly, August 1936, p. 108, "The Influence of Solar Variability on Weather," Abbot; Children of the American Revolution Magazine [March 1936, p. 5, "The Ward of Our Nation," by Abbot; March 1937, p. 8, "Using The Sun Rays, by Abbot]; Taylor Rochester 1st quarter, 1939, p. 24, "Solar Radiation Discoveries Indicate That Weather Repeats Itself Every 23 Years" -- about APO program; The Torch [Jan. 1935, p. 5, about Abbot; Oct. 1936, p. 61, para, about Abbot]; Science Digest, July 1939, p. 40, mentions Abbot; The Yale Review, Autumn 1935, "From C. G. Abbot"; The American Review of Reviews, p. 635, "The Smithsonian Institution at Work," by Abbot; Smithsonian Contributions To Astrophysics, Volume 3 #3, "The Solar Constant" by L. B. Aldrich & W. H. Hoover; The Astrophysical Journal [Volume L #4, November 1919, "On The Diffusing Action of The Sun's Gases As The Cause of The Apparently Sharp Solar Boundary," by Abbot; Volume LI #1, January 1920, "Observations of The Total Solar Eclipse of May 29, 1919," by Abbot; Volume XXXIII #2, March 1911, "The Pyrheliometric Scale," by Abbot & L. B. Aldrich; Volume XXXIII #3, April 1911, "The Value of The Solar Constant of Radiation," by Abbot & F. E. Fowle; Volume 93 #2, March 1941, "Frederick Eugene Fowle," by Abbot; Volume XII #1, July 1900, "A Preliminary Statement of The Results of the Smithsonian Observatory Eclipse Expedition," by Abbot; Volume XI #2, March 1900, "A Prison of Uniform Dispersion," Abbot & F. Fowle, Jr.; Volume LX, 1924 "Radiometer Measurements of Stellar Energy Spectra," by Abbot; Volume 82 #4, November 1935, "Charles Edward St. John," by Abbot; Volume XVIII, July 1903, "The Construction of A Sensitive Galvanometer For Spectrobolometric Purposes," by Abbot]; Proceedings of the National Academy of Science [Volume 19 #3, 3/33, p. 361, "Periodicities In Solar Variation," by Abbot & A. M. Bond; Volume 9 #6, June 1923, "The Solar Prelude of An Unusual Winter," by Abbot; Volume 6 #11, 11/1920, "New Observations on The Variability of the Sun," by Abbot; Volume #2, February 1920, "The Larger Opportunities For Research on The Relations

of Solar and Terrestrial Radiation, by Abbot; BIOGRAPHICAL MEMOIR OF (1) Henry Larcom Abbot; (2) Samuel Alfred Mitchell, by C. G. Abbot; Volume 56 #6, "Solar Variation A Weather Element," by Abbot]; National Geographic Magazine [February 1913, "Do Volcanic Explosions Affect Our Climate?," by Abbot; January 1926, "Measuring The Sun's Heat And Forecasting The Weather," by C. G. Abbot; October 1926, "Hunting and Observatory," by Abbot]; Quarterly Journal of The Royal Meteorological Society [Volume LII #217, January 1926, "Measuring Sun Rays, by Abbot; Volume LXV #280, April 1939, "The Variations of The Solar Constant And Their Relation To Weather Reply to Paranjpe and Brunt," by C. G. Abbot]; Smithsonian Report for "Report on The Astrophysical Observatory" [1918; 1920; 1921; 1923; 1924; 1947; 1950; 1952]; 16) From "Explorations and Field Work of The Smithsonian Institution [1920 "Smithsonian Field-Work In Astrophysics"; 1923 "Field Work of The Astrophysical Observatory"; 1924 "Field Work of the Astrophysical Observatory In Chile, Arizona, & California"; 1926 "Field Work In Astrophysics"; 1929 "Observing The Energy of Sun Rays"; 1930 "Studying The Sun"]; Journal of Terrestrial Magnetism and Atmospheric Electricity, April 1928, #3, p. 149, "Variations of Solar Radiation, by Abbot; Physical Review, Volume V #26, August 1897, "On the Relation Between The Osmotic Pressure and The Vapor Pressure of Solutions," by A. A. Noyes & C. G. Abbot; The American Journal of Science, Volume II, 1896 "The Longitudinal Aberration of Prisms," , by Abbot & F. E. Fowle, Jr.; Transactions, Volume 95, 1931, p. 1013, paragraph by Abbot; A Supplement to the Geographical Review, Volume XIII #4, October 1923, p. 669, "Solar Radiation," by C. G. Abbot; Revista Geografica Tomo III, 1943, "Solar Variation and Weather"; Zvlastni Otisk, "Some Periodicities In Solar Physics And Terrestrial Meteorology," by C. G. Abbot, 1938; Journal of The Franklin Institute, June 1914 "The Radiation of The Sun," by C. G. Abbot; Gerlands Beitrage zur Geophysik, Bd. XVI Heft 4, Leipzig, 1927 "Smithsonian Solar Radiation Researches," by C. G. Abbot; "The 1900 Solar Eclipse Expedition of The Astrophysical Observatory of the Smithsonian Institution" publ. #1439; Bestimmung des osmotischen Druckes mittels Dampfdruckmessungen, by Arthur A. Noyes & C. G. Abbot; Sonderabdruck aus dem XLIV Jahresbericht des Sonnenblick - Vereines, 1935 "Die Strahlungsmerstation der Smithsonian Institution auf dem Mt. St. Katherine," by C. G. Abbot; Comptes rendus des seances de l'Academie des Sciences CXXXI, p. 734, 1900 "Sur les derniers resultats obtenus dans l'etude de la partie infra-rouge du spectre solaire" by S. P. Langley.

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Folder 2 Brochures by various authors. Includes brochures by Harry E. Homason - pertaining to Solar Energy Utilization; brochures by Kurt Wegener ["Verificacion Experimental de la Constante Solar"; "Die Wirkliche Solarkonstante"]; The Review of Scientific Instruments, Volume 12 #6, June 1941, "A Large Recording Spectrograph for the Infra-Red to 15u" by McAlister, Matheson & Sweeney; The Sun at Work - 3rd quarter 1961; "Solar Radiation Investigations In Michigan" by George A. Crabb, Jr.; "La Lengua Aymara, Hermona Mayor de la Quichua" by J. P. Harrington; "Atmospheric Phenomena At High Altitudes"; "Hydrology."

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Series 13: RADIATION MEASUREMENTS.

Box 200

- Box 200 of 215 Folder 1 Solar Constant Data, 9/30/39 thru 12/31/45. In similar form as Table 4, Volume VII of Annals of The Astrophysical Observatory.
- Box 200 of 215 Folder 2 Solar Constant Data, 1/1/1953 thru 12/26/57. Similar form as Table 4, Volume VII of Annals.
- Box 200 of 215 Folder 3 Tyrone Data Sheets (1939-41-Only a few sheets). Includes "Dr. C. G. Abbot at A. P. O. as Assistant and Director, 1895-1944," by C. G. Abbot.
- Box 200 of 215 Folder 4 Reports of APO - Contract #W44-109-qm-2015. Includes reports #'s 1 thru 10 Radiation measurements [# 1 Miami, December 31, 1947-August 31, 1948; # 2 Miami, September 1, 1948-December 31, 1948; # 3 Miami, January 1, 1949-February 28, 1949 Montezuma; # 4 Miami & Montezuma, March 1 - April 30, 1949; # 5 Miami & Montezuma, May 1 - June 30, 1949; # 6 Miami & Montezuma, July 1 - August 31, 1949; # 7 Miami & Montezuma, September 1-October 31, 1949; # 8 Miami & Montezuma, November 1, 1949-January 31, 1950; # 9 Miami & Montezuma, February 1, 1950-April 30, 1950; #10 Miami & Montezuma, May 1 - July 31, 1950].
- Box 200 of 215 Folder 5 Reports of APO - Contract #W44-109-qm-2015. Includes reports #'s 11 thru 13 Radiation measurements [#11 Miami & Montezuma, August 1-October 31, 1950; #12 Miami & Montezuma, Nov. 1, 1950-Jan. 31, 1951; #13 Miami & Montezuma, Feb. 1, 1951-May 10, 1951].
- Box 200 of 215 Folder 6 Reports of APO Camp Lee Radiation Measurements. Includes #2 March 1946; #3 April 1946; #4 May 1946; #5 June 1956; #6 July 1946; #7 August 1946; #8 Sept. 1946; #9 Oct. 1946; #10 Nov. 1946; #11 December 1946; #12 Summary of Radiation measurements, July 15, 1945-March 1947; #13 Summary of Radiation measurements, April, May, June 1947; #14 Summary of Radiation measurements, July, August, September 1947; #15 Summary for October, November, December 1947 corrected values for December 1945 and Ultraviolet radiation, Jan.-Nov. 1947.
- Box 200 of 215 Folder 7 Contains Letters pertaining to Navigational Instruments that Dr. C. G. Abbot tried to develop for War Purposes. Includes "Report on Defense Project" by C. G. Abbot; Seeing Stars In Daylight-Navy Department; Report of Daylight Observations on Planets and Stars at Blue River Oregon, July 1941-Navy Dept.; Daylight Sky Brightness and Visibility of Stars at Various Altitude Above Sea Level; Second Report on Daylight Observation of Stars and Planets. Some Optical Details Navy; Tests of Pioneer Magnesyn Compass with Two & Three Indicators; Kollsman Telegon Compass; Airplane Course Recorder by C. G. Abbot; Adaption of Abbot's Airplane Course Recorder by Abbot.

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Series 14: INSTRUMENT COMPARISONS AND RADIATION TABLES.

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- Box 201 of 215 Folder 1 Miami Pyranometer Comparisons. Includes Comparisons made between pyranometers & pyrhemometers during Jan. 15, 1948-June 11, 1948.
- Box 201 of 215 Folder 2 Miami Pyrhemometer Comparisons, 1947-48. Includes Comparisons between pyrhemometers.
- Box 201 of 215 Folder 3 Miami Radiation Charts, 1947-50
- Box 201 of 215 Folder 4 Montezuma, Chile Radiation Tables, 1948-50
- Box 201 of 215 Folder 5 Table Mt. & Montezuma Tables. Includes Table Mt. Tables giving U. V. (ultraviolet), VIS (visual) and IR (infra-red) areas - also tables giving Temperature & Relative Humidity Data, 1945; Montezuma 1945 solar constants, Tables of Temperatures & Relative Humidity, Tables of U.V., VIS., & IR areas. Also a few plate readings for places [24 = 5827; 32 = 4495; and 44 = 3567]; Tables of Solar constants during 1939-44 for M - Montezuma T - Table Mt. Ty - Tyrone.
- Box 201 of 215 Folder 6 Camp Lee, Va. - Pyranometry with Filters. Includes 1945 & a few readings from 1946.
- Box 201 of 215 Folder 7 Camp Lee Radiation Tables, 1945-48

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Series 15: PATENTS AND MISCELLANEOUS.

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- Box 202 of 215 Folder 1 Patents: #2205378 Solar Flash Boilers; #2247830 Solar Heaters; #2460482 Solar Heat Collectors; # 2133649 Solar Heaters; #1946184 Solar Heaters; #2141330 Solar Distilling Apparatus
- Box 202 of 215 Folder 2 Inventions - Gun Camera, 1918
- Box 202 of 215 Folder 3 Patents (Letters) - Compass & Dip Indicator (General Elec. Co., 1919-1940)
- Box 202 of 215 Folder 4 Patents - Turbine Projectile - Letters, 1918-1921
- Box 202 of 215 Folder 5 Patents - Variable Speed Power Transmission Mechanism Drawings
- Box 202 of 215 Folder 6 Armed Services Depts., 1943 & 1945. Letters concern weather forecasting - necessary in battle against Japan.
- Box 202 of 215 Folder 7 Photomicrographs of Snow Crystals
- Box 202 of 215 Folder 8 Smithsonian Physical Tables Data - Fowle & Bond Letters between 1920-1925. Includes "Physical & Mechanical Properties of Nickel" by Dr. Paul D. Merica; Interlaboratory Photometric Comparisons of Gas Filled Tungsten Lamps" by W. E. Forsythe and F. E. Cady.
- Box 202 of 215 Folder 9 Solar Limb Darkening & Intensity Distribution In Continuous Spectrum
- Box 202 of 215 Folder 10 Water Stills, 1942-1943. Letters discussing Abbot's invention for distilling sea water to help stranded sailors.
- Box 202 of 215 Folder 11 Wexler, Jonathan, 1967. Letters about Wexler's project to use a computer to analyze temperature & precipitation values.
- Box 202 of 215 Folder 12 Wexler, Jonathan, 1967. Includes Letter from Abbot to Wexler telling of a Dr. Baur at the Univ. of Berlin who showed mathematically sun's variation causes weather changes; Letter to Sec. Ripley, 1967 from A. J. Drummond praising APO work and showing close agreement between APO solar constant value and value obtained by Eppley Lab. & Jet Propulsion Laboratory.
- Box 202 of 215 Folder 13 Col. Allison R. Williams, 1943. Correspondence between Dr. Abbot & Col. Williams pertains to weather forecasting. Includes Tables of Precipitation (Predictions & event).

Box 202 of 215 Folder 14 1968 Requests for article "Electric Power From Solar Radiation"

Box 202 of 215 Folder 15 Monthly Weather Reports - Actinic Site, State College, New
Mexico. Covers time period 1948-1951; Tables give Maximum & Minimum
Temperatures, Barometric Pressure, Relative Humidity, Wind Velocity &
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Series 16: WEATHER DATA.

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| Box 203 of 215 | Folder 2 Temperature & Precipitation Values - Foreign Stations |
| Box 203 of 215 | Folder 3 Predictions. Temperature or Precipitation Predictions for: Zikawie, No. wI; Vienna, No. 24, 25; Helsingfors, No. 30; Greenwich, No. 36; Copenhagen #32-35. |
| Box 203 of 215 | Folder 4 Test of Periods. Test of periods having regard for change of phase at Vienna, Copenhagen & New Haven. |
| Box 203 of 215 | Folder 5 Large Graph of Copenhagen Temp. Possible Prediction & Event Type Graph. |
| Box 203 of 215 | Folder 6 Scratch Paper (Precipitation Tables) |
| Box 203 of 215 | Folder 7 Weather Data - South Florida. Blue Prints of Weather Data & Solar Radiation from the South Florida Test Service. |

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Series 17: MISCELLANEOUS DATA SHEETS.

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| Box 204 of 215 | Folder 2 Plates & Figures Volume VII of Annals of the APO, 1954 |
| Box 204 of 215 | Folder 3 N. A. C. A. (National Advisory Committee for Aeronautics) Photographs |
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| Box 204 of 215 | Folder 6 Camp Lee Data Sheets, 1945-46. Mixture of Total Radiation on Horizontal Surface, Vv Radiation on Surface 45 degree East, and Radiation on 45 degree South Surface. |
| Box 204 of 215 | Folder 7 U. S. Temperature Tables (Around 1965-71?) |

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Series 18: WASTEBOOK CONTAINING NOTES BY ABBOT, 1961-1962.

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Series 19: CONSTANTS OF INSTRUMENTS, APO, CA. 1890's.

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Series 20: PUBLICATIONS, SCRAPBOOK, BIOGRAPHICAL INFORMATION, BOOK OF TESTIMONIALS TO ABBOT, AND MISCELLANY.

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- Box 205 of 215 Solar Constant Publications and Papers
- Box 205 of 215 Sun's Variation and Weather by C.G. Abbot. 32 Original Smithsonian
Publications, 1942-1966
- Box 205 of 215 Miscellaneous Papers by C.G. Abbot, 1910-1917
- Box 205 of 215 Miscellaneous Papers by C.G. Abbot, 1919-1924
- Box 205 of 215 Reprints from Smithsonian Reports (by C.G. Abbot and others), 1936-1959
- Box 205 of 215 Reprints from Various Publications, by C.G. Abbot, 1926-1966
- Box 205 of 215 Retold Tales by C.G. Abbot, 1950. Includes stories and folk tales from the Far
East that Abbot related to friends and colleagues.
- Box 205 of 215 Ten Years of Smithsonian Affairs, by Secretary C.G. Abbot, 1937. Report to
Board of Regents.

Box 206

- Box 206 of 215 Miscellaneous Papers by C.G. Abbot, 1925-1933
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- Box 206 of 215 Miscellaneous Papers by C.G. Abbot, 1933-1952
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Series 21: BOLOGRAPHIC PLATES-ENERGY SPECTRUM SCANS, CA. 1927-1956 AND MISCELLANEOUS.

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- Box 211 of 215 Photographic copies of 1034 Bolographic plates recording solar constant data taken at SAO's Table Mountain Station, 1927-1958
- Box 211 of 215 Medals. Includes Distinguished Service to the Great Lakes Exposition, James Smithson Medal, Henry Draper Medal, Robert Hutchings Goddard Medal, A Century of Weather Service Commemorative Coin, National Academy of Sciences Medal, Benjamin Count Rumford Medal, American Meteorological Society Medal and Joseph Henry Medal.
- Box 211 of 215 Glass Slides of Bolographic data and Bolometer.

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