



Smithsonian Institution Archives

Records, 1923-1954

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Collection Overview

Repository:	Smithsonian Institution Archives, Washington, D.C., osiaref@si.edu
Title:	Records
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Date:	1923-1954
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Creator::	Smithsonian Astrophysical Observatory
Language:	English

Administrative Information

Preferred Citation

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Historical Note

In the scientific community, the Smithsonian Astrophysical Observatory (SAO; also referred to as APO) has held a prestigious position since its inception. The Astrophysical Observatory itself was a direct result of the efforts made by Secretary Samuel Pierpont Langley, who was also its first Director.

Samuel Pierpont Langley was a self-taught man without benefit of a higher education. Langley was an intelligent man who knew he wanted to be involved in all aspects of the scientific process. By 1880, he had perfected the instrument known as the bolometer. The device could be used to measure heat and was best suited for quantitative scientific work because of its stability and the ability to repeat data. Langley has been called a scientist, an engineer, a naturalist, and an historian. In truth, he had to have been all of the above to establish himself as a world figure in astrophysics. With what he termed, "The New Astronomy," Langley created a science that focused on the sun and its effects. In 1887, while working at the Allegheny Observatory in Pennsylvania, Langley was asked to join the staff of the Smithsonian as Assistant Secretary under Spencer Baird and to help with the creation of the SAO. Quite unexpectedly, and after only a short period of time in Washington, Langley became Secretary of the Institution, and under his direction, ground was broken on the Smithsonian Astrophysical Observatory in November 1889.

The Observatory building was originally located on the southeast side of the Castle Building, on Smithsonian Institution grounds. During construction several obstacles were overcome to create a suitable building. The first major problem came as a result of the vibrations from the busy Washington streets. The heavily trodden ground made it impossible to make sure that the collected data were accurate. This problem was eradicated by raising the structure off the ground and supporting it on deeply-set pylons. The second obstacle facing the Observatory was the oppressive summer heat and humidity of Washington. What resulted was one of the first year-round constant temperature spectroscopy rooms, controlled by

an ammonia refrigeration system, with a continuous temperature of twenty degrees centigrade. Thus, the Smithsonian was the first institution with an air-conditioned astrophysical observatory.

It was during these early years of the SAO that Charles Greeley Abbot, a twenty-three-year-old from Boston, was hired on as an Observatory assistant. He worked with Langley, learning the principles of bolometry and spectral radiometry. In 1906, Abbot was asked to take over the Observatory from Langley, who wished to pursue his attempt at manned, heavier-than-air flight with his "aerodromes." With Abbot came the move away from long-term programmatic studies and onto short-term research projects. These were not as narrowly focused and thus covered a broader range of topics and influences from physical theory in observation and experimentation.

Under Director Abbot, the Observatory established field stations to achieve a diversified collection of solar constant values. The stations were strategically placed to ensure diversity in the readings, with the first station opened at Mount Harqua Hala, near Phoenix, Arizona, in use from 1920-1926. Also established in 1920 was Mount Montezuma, in Antofagasta, Chile, which maintained observations through 1955. The Montezuma station closed only when the skies became too cloudy and the air too filled with smog, from the local mines, to continue observations. In 1925, the Observatory opened the Table Mountain station in Swartout, California, which would remain in use longer than any of the other stations, closing in 1962. In Africa, the Observatory established two stations, the first at Mount Brukarros, located in Southwest Africa, in use through 1932, and the others near Mount Sinai, Egypt, on Mount St. Katherine, 1933-1937. In Silver City, New Mexico, the Tyrone station was in use from 1938-1946, also closing because of increasingly poor air quality and sky conditions. The SAO made attempts to relocate the stations that they were forced to close or abandon. One such attempt was made at Clark Mountain, in California, but sufficient funds were unavailable for this field station in 1948.

At Abbot's retirement in 1944, he was succeeded by Loyal B. Aldrich, who had worked for the Observatory for thirty-five years. Aldrich continued as Director until retiring in 1955. At that point Secretary Carmichael had approved the Observatory's move from Washington and began looking for a suitable location. With the growing concerns facing the Observatory, Carmichael felt that a move would be the best solution. In 1953, new worries concerning the future of the SAO escalated with the impending retirement of Aldrich and the unexpected death of his intended successor, William H. Hoover. It was at this time that Secretary Carmichael looked into moving the SAO to Climax, Colorado, and began discussions with Fred Whipple. After careful consideration, Carmichael decided that the lack of an astrophysical research program at the local university would diminish the availability of appropriate facilities for the SAO's use. Secretary Carmichael decided instead on a move to the Harvard College Observatory (HCO), Cambridge, Massachusetts. This move allowed a symbiotic relationship between the two observatories, but also ensured their recognition as two separate facilities.

By moving the SAO to the Harvard College Observatory, the Smithsonian would gain access to the network of solar research stations operated by Harvard, including the Sacramento Peak Observatory. Direct connections between the SAO and the HCO (via Sacramento) would facilitate further research in astrophysics, and new government contracts could be expected. The move from Washington, D.C. to Cambridge officially took place on July 1, 1955, under the Directorship of Fred L. Whipple.

While at the HCO, additions were made to the work with which the SAO was involved. They were an integral force in tracking the paths of satellites in "Operation Moonwatch;" the SAO began the series of "Smithsonian Contributions to Astrophysics," as well as establishing a Photographic Meteorite Program and the Center for Short-Lived Phenomena. In 1968, they opened yet another field observatory at Mount Hopkins, Arizona, to house the first multiple-mirrored telescope.

On July 1, 1973, the Smithsonian Astrophysical Observatory merged with the Harvard College Observatory to become the Harvard-Smithsonian Center for Astrophysics, or CFA, located at Cambridge, Massachusetts.

Chronology

1880	Samuel Pierpont Langley perfects the bolometer, a heat measuring device suited for quantitative scientific work because of its qualities of stability and repeatability
1887	Langley becomes Secretary of the Smithsonian
November 1889	Construction on an astrophysical observatory begins on the southeast grounds of the Castle Building
March 1890	Smithsonian Astrophysical Observatory completed, equipped with a heliostat, a constant-temperature spectroscopy room kept at a year-round temperature of twenty degrees centigrade; and the building was raised on pylons
March 2, 1890	Samuel Pierpont Langley becomes the first Director of the Smithsonian Astrophysical Observatory
March 1890	Charles Greeley Abbot hired as an Observatory assistant
June 5, 1890	Alexander Graham Bell gives a \$5,000 gift for astrophysical research
March 3, 1891	First appropriation of \$10,000, given to the SAO, from Congress
May 28, 1900	Solar eclipse observed
1901	SAO published the first volume of "Annals of the Observatory"
February 7, 1906	Samuel Pierpont Langley dies and Charles Greeley Abbot becomes Director of the SAO
January 23, 1907	Charles Doolittle Walcott becomes Secretary of the Smithsonian
December 16, 1918	Charles Greeley Abbot becomes Assistant Secretary of the Smithsonian
1920	Observatory field station established at Mount Harqua Hala, Arizona
1920	Observatory field station established at Montezuma (near Calama) in Antofagasta, Chile
1923	"Solar Cooker" set up on Mount Wilson, California
1925	Observatory field station established on Table Mountain, Swartout (near Wrightwood), California
1926	Abandonment of the Mount Harqua Hala (Arizona) Station
February 9, 1927	Secretary Walcott dies
January 10, 1928	Charles Greeley Abbot becomes Secretary of the Smithsonian
July 1, 1929	Division of Radiation and Organisms established under the SAO
October 19, 1929	Earthquake in Antofagasta, Chile, near the Montezuma Station; the station incurred no injuries to the observers nor damage to the equipment
1932	Abandonment of Mount Brukarros station in Africa
1933	Observatory field station established at Mount St. Katherine, Mount Sinai, Egypt

<i>July 1936</i>	Lightning strikes at the Table Mountain, California, field station, no injuries, but buildings and tunnels needed some reconstruction
<i>1937</i>	Station abandoned at Mount St. Katherine in Egypt
<i>1938</i>	Observatory field station established at Tyrone, Burro Mountain (near Silver City), New Mexico
<i>1939</i>	World War II begins
<i>July 1, 1941</i>	Division of Radiation and Organisms is funded by Congressional appropriation
<i>June 30, 1944</i>	Charles Greeley Abbot retires as Director of the SAO and is succeeded by Loyal B. Aldrich
<i>1945</i>	Alexander Wetmore becomes Secretary of the Smithsonian
<i>1945</i>	World War II ends
<i>1946</i>	Tyrone station (New Mexico) closes
<i>1950-1953</i>	Korean War
<i>1953</i>	Alexander Wetmore retires; Leonard Carmichael becomes Secretary of the Smithsonian
<i>1953</i>	William H. Hoover, long-time employee of the SAO, Chief to the Division of Astrophysical research, and Aldrich's intended successor, dies unexpectedly and Carmichael must begin the search for the next Director of the SAO
<i>June 30, 1953</i>	Andrew Kramer, instrument maker for sixty-one years, retires from the SAO
<i>June 30, 1955</i>	Loyal B. Aldrich retires
<i>July 1, 1955</i>	Montezuma station (Chile) abandoned
<i>1955</i>	SAO moves from Washington, D. C., to Cambridge, Massachusetts, under the Directorship of Fred L. Whipple
<i>1956</i>	Launching of "Operation Moonwatch" to assist in tracking the paths of satellites
<i>1956</i>	SAO begins the series "Smithsonian Contributions to Astrophysics"
<i>1962</i>	Table Mountain station (California) closes
<i>1963</i>	Photographic Meteorite Programs established
<i>January 31, 1964</i>	Leonard Carmichael retires; S. Dillon Ripley becomes Secretary of the Smithsonian
<i>January 1, 1968</i>	"Center for Short-Lived Phenomena" established, headquartered at the SAO
<i>October 23, 1968</i>	Mt. Hopkins, Arizona, Field Observatory opened; in the future it will house the first multiple-mirror telescope
<i>July 1, 1973</i>	SAO merges with the Harvard College Observatory to become the Harvard-Smithsonian Center for Astrophysics (CFA)
<i>July 1, 1973</i>	Fred L. Whipple retires
<i>September 16, 1973</i>	Secretary Emeritus Carmichael dies
<i>December 17, 1973</i>	Secretary Emeritus Abbot dies at the age of 101

Descriptive Entry

Record Unit 85, records of the Smithsonian Astrophysical Observatory, covers the years 1923-1965. Most records end by 1954, with the exception of Quarterly Progress Reports, which extend through the year 1965. Most of the documentation is of the field stations: Table Mountain, California; Montezuma, Chile; Mount St. Katherine, Egypt; and Tyrone, New Mexico; with only scattered references to the Mount Brukarros station and Mount Harqua Hala station. There are also records on budget matters and fiscal information from the Observatory Headquarters in Washington, D.C., concerning the field stations. Most of the information provided in this record unit is correspondence from the Field Director at each station to the Director of the Observatory and retained copies of the Director's responses. There is additional information in the form of contracts, official forms, and memoranda.

The records concerning these field stations come primarily from directors Charles Greeley Abbot and Loyal B. Aldrich, with numerous files from field station directors Alfred F. Moore (Table Mountain and Tyrone stations), Fred A. Greeley (Montezuma station), and Alfred G. Froiland (mostly Table Mountain station). These records are primarily administrative but also discuss relations between field station staff members. Also included in these records is the National Geographic Station correspondence and information on A. F. Moore's 1931 South African Expedition. These records do not cover the Observatory's move to Cambridge, nor do they go into detail about the opening or closing of any of their established stations.

The information is organized by field station, then alphabetically by subject and finally chronologically within subject. The budget and fiscal information, along with miscellaneous files, follow the field station files.

Names and Subject Terms

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

Subjects:

Astrophysical observatories

Types of Materials:

Architectural drawings
Black-and-white photographs
Clippings
Manuscripts
Maps
Pamphlets

Names:

Abbot, C. G. (Charles Greeley), 1872-1973
Mount Brukarros Station (Southwest Africa)
Mount Montezuma Station (Calama, Chile)
Mount Saint Katherine Station (Egypt)
Table Mountain Station (California)
Tyrone Station (New Mexico)

Container Listing

Series 1a: FIELD STATION RECORDS: CALIFORNIA STATION, TABLE MOUNTAIN REPORTS, 1923-1954

Box 1

- Box 1 of 21 Folder 1 California Station--Aldrich, Stanley L., 1952. General correspondence with L. B. Aldrich; discusses staff changes and other personal issues (inc. Froiland's auto accident, tax problems); information on Secretary Carmichael's visit to the station
- Box 1 of 21 Folder 2 California Station--Agriculture, Department of. Copies of correspondence with R. F. McClellan (re: site for station, also the request for leave or grant for the site)
- Box 1 of 21 Folder 3 California Station--A. Included: Abbot letter; Aldrich L. B.; Aldrich, A. F.; Adams, W. S.; Ayers, C. W.
- Box 1 of 21 Folder 4 California Station--Butler, C. P., 1939-1940. Memorandum on Radiometry for Dr. Abbot; station reports; supply lists; memorandum relating to water litigation at Table Mountain, California; data from comparison of Pyrheliometers; summary of special comparisons for Dr. Abbot
- Box 1 of 21 Folder 5 California Station--Butler, C. P., 1941. Monthly station reports; staff changes (Hassard reports to Table Mountain); Oct 4, 1941 Red-End Wavelengths; diagram of Pyrheliometers; LA Times article ("Reasons for error sought with accurate storm warning essential to defense work")
- Box 1 of 21 Folder 6 California Station--Butler, C. P., 1942. Abbot/Butler correspondence; station reports; "Air-Craft Warning Station" reports; plate storage room report; Pickering Polarimeter data; Pyranometer Reading Report Comparison; ozone-water observations 1941
- Box 1 of 21 Folder 7 California Station-B. Included: Board of Supervisors; Moore's retirement (change of personnel); Board of Park Commissions (concerning Baughman's application); Baughman's termination from Table Mountain; correspondence from Arthur Bergen and Kenneth G. Bower
- Box 1 of 21 Folder 8 Congressional Records
- Box 1 of 21 Folder 9 California Station--Correspondence and Records. Equipment orders to be shipped to Table Mountain
- Box 1 of 21 Folder 10 California Station--Correspondence Regarding Water and Electricity

Box 1 of 21 Folder 11 California Station--C. Included: California Department of Public Works, California Insurance Service, California State Emergency Relief Administration, Craven, Earl W.--resignation, et al

Box 2

Box 2 of 21 Folder 1 California Station--D. Memorandum to D. W. Dorsey

Box 2 of 21 Folder 2 California Station--E. Correspondence between Abbot and James Brown Edson; Table Mountain accounting; Montezuma Station account

Box 2 of 21 Folder 3 California Station--Freeman, H. B., 1938-1939. Freeman/Abbot correspondence (inc: tennis court information, Freeman's impending trip to Chile); notes for Freeman; calibration of Pyrheliometer and Pyranometer; Anneters by Potentiometer method

Box 2 of 21 Folder 4 California Station--Froiland, A. G., 1949. Aldrich correspondence; change in subsistence allotment; correspondence regarding the coelostat; supply requests; materials in Hann Transfer and Storage (Silver City, New Mexico)

Box 2 of 21 Folder 5 California Station--Froiland, A. G., 1950-1951. General correspondence with Aldrich; difficulties with housing at the station (too close of quarters); problems he was having with too many liberties being taken with the station vehicles; shipping invoices

Box 2 of 21 Folder 6 California Station--Froiland, A. G., 1952. Shipping invoices; general correspondence with Aldrich; reports on the major snowstorm; report on the earthquake as noted in the July 21, 1952, letter; includes one photograph

Box 2 of 21 Folder 7 California Station--Froiland, A. G., 1953. Froiland/Aldrich correspondence on daily occurrences; preparation for winter, rewiring, etc.; problems with Al Pezzuto

Box 2 of 21 Folder 8 California Station--Froiland, A. G., 1954. Aldrich correspondence; possibility of Froiland returning to Chile for another term (unlikely because of future surgical possibilities); staff changes (Pora expected to arrive); shipping invoices

Box 2 of 21 Folder 9 California Station--Froiland, A. G., 1955. General correspondence; request for specific travel authority; shipping invoices; correspondence over the gas bill situation

Box 2 of 21 Folder 10 California Station--F. Memorandum to F. E. Fowle

Box 3

- Box 3 of 21 Folder 1 California Station--Greeley, F. A., 1930-1940. Abbot correspondence (re: weather concerns, staff changes); includes envelope of small photographs
- Box 3 of 21 Folder 2 California Station--Greeley, F. A., 1948. Aldrich correspondence (re: problems with station vehicles, bills, etc.); shipping invoices
- Box 3 of 21 Folder 3 California Station--Greeley, F. A., 1949. Directions for the use of the air-mass tables; new air-mass tables; general Aldrich correspondence
- Box 3 of 21 Folder 4 California Station--Greeley, F. A., 1950. Aldrich correspondence; discusses the possibility of another term in Chile; insurance policies; Angstrom Pyrheliometer figures
- Box 3 of 21 Folder 5 California Station--Greeley, F. A., 1951. Hoover and Aldrich correspondence; request for specific travel authority; official motor vehicles request; supply orders
- Box 3 of 21 Folder 6 California Station--Greeley, F. A., July 1, 1955. General correspondence; shipping invoices; staff changes
- Box 3 of 21 Folder 7 California Station--G. EMPTY
- Box 3 of 21 Folder 8 California Station--Hassard, Thomas. Appointment to the bolometric assistant position under C. P. Butler, at Table Mountain
- Box 3 of 21 Folder 9 California Station--Hopkins, John S. Correspondence with Abbot concerning his temporary position and subsequent work on Table Mountain
- Box 3 of 21 Folder 10 California Station--Hoover, W. H. Hoover/Aldrich correspondence; Hoover/Abbot correspondence
- Box 3 of 21 Folder 11 California Station--H
- Box 3 of 21 Folder 12 California Station--I-J. EMPTY
- Box 3 of 21 Folder 13 California Station--Jolley, C. J., 1946-1947. Jolley/Aldrich correspondence, particularly on the problems he was having working under Moore and the possible deterioration in Moore's mental health
- Box 3 of 21 Folder 14 California Station--Justice, Department of
- Box 3 of 21 Folder 15 California Station--Keddy, J. L. Office memoranda

- Box 3 of 21 Folder 16 California Station--Los Angeles County Board of Supervisors. Correspondence from Alfred Moore regarding the provision of access to the observatory at the Table Mountain station
- Box 3 of 21 Folder 17 California Station--L
- Box 4
- Box 4 of 21 Folder 1 California Station--Maps
- Box 4 of 21 Folder 2 California Station--Moore, A. F., 1925. Correspondence between Moore and Director Abbot at the creation of the Table Mountain station; discussion over what kinds of supplies are needed and the numbers of each
- Box 4 of 21 Folder 3 California Station--Moore, A. F., 1926. Moore/Abbot correspondence; reports on collected data; discussions on Harlan Zodtner; readings and observations of the activities on the Table Mountain station
- Box 4 of 21 Folder 4 California Station--Moore, A. F., 1927. Moore/Abbot correspondence; Pyrheliometer data; staff changes for the bolometric assistant; reports on financial material, instruments, and reduction of data
- Box 4 of 21 Folder 5 California Station--Moore, A. F., 1928. Moore/Abbot correspondence; personal letters; supply requests; correspondence concerning changes in bolometric assistants; daily activities of the station
- Box 4 of 21 Folder 6 California Station--Moore, A. F., 1929. General correspondence; graphs of readings; envelope containing L. B. Aldrich correspondence; table of "Stem Corrections" for the Pyrheliometer.
- Box 4 of 21 Folder 7 California Station--Moore, A. F., 1930. Letters with information on ozone correction; correspondence with both Abbot and Aldrich
- Box 4 of 21 Folder 8 California Station--Moore, A. F., 1931-1932. Moore/Abbot correspondence; discusses Keith Baughman becoming assistant
- Box 4 of 21 Folder 9 California Station--Moore, A. F., 1933. Moore/Abbot correspondence (re: daily activities of Table Mountain station); discussion over Watson becoming assistant
- Box 5
- Box 5 of 21 Folder 1 California Station--Moore, A. F., 1934. Moore/Abbot correspondence; weather problems; procuring a vehicle for use at the station

- Box 5 of 21 Folder 2 California Station--Moore, A. F., 1935-1936. General correspondence, included: copies of the agreement covering the Smithsonian's use of telephone poles and cross-arms
- Box 5 of 21 Folder 3 California Station--Moore, A. F., 1938-1940. Problems with ticks at Table Mountain (Moore was at the Tyrone station at this time and all correspondence was through the mail system) while C. P. Butler was Field Director; all disputes between directors were settled amicably
- Box 5 of 21 Folder 4 California Station--Moore, A. F., 1945-1946. Moore/Aldrich correspondence; Moore was resettling himself at the Table Mountain station after an absence
- Box 5 of 21 Folder 5 California Station--Moore, A. F., 1947-1948. [TWO FOLDERS A & B] Naval Research Laboratory correspondence; Moore/Aldrich correspondence concerning Moore's retirement; includes two photographs
- Box 5 of 21 Folder 6 California Station--M-N
- Box 5 of 21 Folder 7 California Station--Notes and Instructions. "Notes for Table Mountain" "A New Method for Indicating the Variation of the Sun;" et al
- Box 5 of 21 Folder 8 California Station--O-R
- Box 5 of 21 Folder 9 California Station--Pezzuto, A. M., 1949-1953. Correspondence between Pezzuto and Secretary Carmichael, centered around the fact that Pezzuto and Alfred Froiland were incompatible in a working relationship (both the accusations and their results are included)
- Box 6
- Box 6 of 21 Folder 1 California Station--Pora, John A., 1954. Pora/Aldrich correspondence, including: the beginning of Pora's work at the station and when he decided to move on and resigned his post
- Box 6 of 21 Folder 2 California Station--Sordahl, L. O., 1928-1929. Information on Sordahl's appointment to Africa and the subsequent appointment of Alfred Froiland as his assistant
- Box 6 of 21 Folder 3 California Station--Southern California Edison Company, 1953
- Box 6 of 21 Folder 4 California Station--Supply Division, 1953-1954
- Box 6 of 21 Folder 5 California Station--S. General correspondence
- Box 6 of 21 Folder 6 California Station--T-V. General correspondence

- Box 6 of 21 Folder 7 California Station--Utter, Merwyn G., 1947-1951. Correspondence between Utter and Director Aldrich
- Box 6 of 21 Folder 8 California Station--Warner, S. C., 1936-1942. Warner/Abbot correspondence; station reports; equipment requests; financial requests
- Box 6 of 21 Folder 9 California Station--Warner, S. C., 1943. Semi-monthly station reports; Warner/Abbot general correspondence
- Box 6 of 21 Folder 10 California Station--Warner, S. C., 1944. Warner/Aldrich correspondence; semi-monthly station reports; Warner/Abbot correspondence
- Box 6 of 21 Folder 11 California Station--Watson, Walter, 1933-1935. Information on his termination from the Observatory; Watson's wedding announcement; working out problems that he had with his eyes
- Box 6 of 21 Folder 12 California Station--Weather Bureau Notes. Special Observer's Meteorological Record; Security Rainfall Chart of Southern California; Rainfall Data for Los Angeles and San Bernardino Counties, California
- Box 6 of 21 Folder 13 California Station--W
- Box 6 of 21 Folder 14 California Station--Zimmerman, James E., 1953. Necessary documents for his move to Chile; transmission of atmosphere equation with ozone coefficient
- Box 6 of 21 Folder 15 California Station--Zodtner, H. H., 1925-1933. Statement on exactly what happened to mutually affect the Observatory and Camp McClellan Improvement Association and/or Los Angeles County in regards to water, roads, electricity, and phones; general correspondence
- Box 6 of 21 Folder 16 California Station--Zodtner, H. H., 1936-1937. Letters to L. B. Aldrich (envelope); directions for the short method reduction of the odd air-mass bolographs and the long method bolographs, with notes regarding them
- Box 6 of 21 Folder 17 California Station--Zodtner, H. H., 1938-1939. General correspondence; weather information; supply requests

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Series 1b: FIELD STATION RECORDS: EGYPT STATION, MOUNT ST. KATHERINE REPORTS, 1933-1937

Box 7

- Box 7 of 21 Folder 1 Mount St. Katherine Station--A-C. Included: Apparatus and Materials List; Coleman Lamp and Stove Company; pamphlets; information on the procurement of supplies in order to open the station
- Box 7 of 21 Folder 2 Mount St. Katherine Station--D-F. Report on the water pollution from W. C. Fowler, Health Officer
- Box 7 of 21 Folder 3 Mount St. Katherine Station--Froiland, Alfred G., 1935-1937. General correspondence; data chart; Froiland's correspondence before traveling to Egypt
- Box 7 of 21 Folder 4 Mount St. Katherine Station--Greeley, F. A., 1932-1936. Efficiency rating; announcement of his plans to travel to Egypt
- Box 7 of 21 Folder 5 Mount St. Katherine Station--G-I. Order for photographic plates; Hoover's correspondence to begin his journey to Egypt to inspect the station; "Report on the Inspection of the Solar Observatory on Mount St. Katherine, Egypt"
- Box 7 of 21 Folder 6 Mount St. Katherine Station--J-L. Included: Kelvinator Corporation correspondence and pamphlets
- Box 7 of 21 Folder 7 Mount St. Katherine Station--Moore, A. F., 1932-1936. General correspondence; solar constant values; NAMUSES problem; "Contents of Boxes Going to Egypt with A. F. Moore, May 26, 1936"
- Box 7 of 21 Folder 8 Mount St. Katherine Station--Moore, A. F., 1937-1938. "Scientific Apparatus and Material and Household Effects;" scientific readings; general correspondence
- Box 7 of 21 Folder 9 Mount St. Katherine Station--Mount Sinai Convent, 1933-1948. General correspondence; station blueprints
- Box 7 of 21 Folder 10 Mount St. Katherine Station--M. Included: Marconi Radio Telegraph Company; McClenahan, R. S.; MISR-Airwork; Moore, R. Walton
- Box 7 of 21 Folder 11 Mount St. Katherine Station--Notes and Instructions. "Suggestions Regarding Mount St. Katherine;" "Use of Test Curves at St. Katherine;" "General Instructions...;" "Infra-red Corrections;" "Precipitable Water Table;" band areas for both short and long methods

- Box 7 of 21 Folder 12 Mount St. Katherine Station--N-P. Included: Ober Steamship and Tourist Agency; Onan, D. W. and Sons; Parks and Hull, Incorporated
- Box 7 of 21 Folder 13 Mount St. Katherine Station--Plans and Agreement. Building plans; construction estimates
- Box 7 of 21 Folder 14 Mount St. Katherine Station--Q-S. Included: R.C.A. Communications; Roosevelt Steamship Company
- Box 7 of 21 Folder 15 Mount St. Katherine Station--State Department, 1932. General correspondence
- Box 7 of 21 Folder 16 Mount St. Katherine Station--T-V. Included: Tramp Trips, Incorporated; U.S. Dispatch Agent; Universal Motor Company of Egypt
- Box 7 of 21 Folder 17 Mount St. Katherine Station--W-Z. Included: newspaper clipping regarding the Zodtners; War Department correspondence; Zodtner, Genevieve
- Box 7 of 21 Folder 18 Mount St. Katherine Station--Zodtner, H. H., 1932-1936. Efficiency rating; general correspondence; correspondence with the convent; includes one photograph

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Series 1c: FIELD STATION RECORDS: MONTEZUMA (CHILE) STATION REPORTS, 1923-1955

Box 8

- Box 8 of 21 Folder 1 Montezuma Station--Abbot, C. G., 1928-1934. General correspondence with Dorsey
- Box 8 of 21 Folder 2 Montezuma Station--Abbot, L. H., 1921-1931. General correspondence, both in English and in Spanish; copies of letters from the other stations
- Box 8 of 21 Folder 3 Montezuma Station--Aldrich, L. B., 1922-1923. Corrected values for the spectrum of Aldebaron; correspondence over the success of the windmill; data revisions for correcting short-method observations, solar constants, March 17-28, 1923
- Box 8 of 21 Folder 4 Montezuma Station--Aldrich, L. B., 1924. U-V Correction Curve; list of needed supplies; numerous graphs; Ultra-violet and Infra-red Corrections at Montezuma; general correspondence
- Box 8 of 21 Folder 5 Montezuma Station--Aldrich, L. B., 1925. Revised Pyranometer constant; telegram on Baughman's Resignation; summary of sector plate values
- Box 8 of 21 Folder 6 Montezuma Station--Aldrich, S. L., 1949-1950. Foreign Post Differential Questionnaire; general correspondence; reimbursement voucher; list of box contents sent to Chile
- Box 8 of 21 Folder 7 Montezuma Station--Aldrich, S. L., 1951-April 1952. Montezuma Station Account; list of needed supplies; general correspondence; includes one photograph
- Box 8 of 21 Folder 8 Montezuma Station--A. Included: Agriculture, Department of; American Express Company; American Television and Radio Company; Argentine Meteorological Station
- Box 8 of 21 Folder 9 Montezuma Station--Baughman, M. Keith, 1928-1931. Correspondence concerning his expense account; inquiries as to whether or not there will be another job opening that he may have the chance to fill; some correspondence in Spanish
- Box 8 of 21 Folder 10 Montezuma Station--Butler, Clay P., 1928-1931. Pyranometer values; solar constant values; contents and values of boxes sent to Chile; "Eliminating the Personal Error by the Automatically Timed Photo-Eye;" includes two photographs

- Box 8 of 21 Folder 11 Montezuma Station--Butler, Clay P., 1932-1933. General correspondence; diagrams; some correspondence in Spanish
- Box 8 of 21 Folder 12 Montezuma Station--Butler, Clay P., 1934. Solar constant values; contents and values of the boxes sent to Chile; "Instructions for Using the Montezuma New (1933) Short Method Tables"
- Box 9
- Box 9 of 21 Folder 1 Montezuma Station--Butler, Clay P., 1935-1936. Problems with Warner's performance as the bolometric assistant; station reports; data charts; values of the Angstrom Pyrheliometer Constant; information on band areas; includes one photograph
- Box 9 of 21 Folder 2 Montezuma Station--Butler, Clay P., 1937. Notes on short-method reductions of long-method days, also odd air-mass bolographs, and final air mass, function and scale corrections; station reports
- Box 9 of 21 Folder 3 Montezuma Station--Butler, Clay P., 1938. Station reports; method of finding band areas in long-method reduction; provisional correlation between the levels of Lake Titicaca and the solar constant; various diagrams; general correspondence
- Box 9 of 21 Folder 4 Montezuma Station--Butler, Clay P., 1939. Station reports; general correspondence; "Report on the first Conference of the American National Committees for Intellectual Cooperation, in Santiago, Chile;" program for the conference and other documents, in Spanish
- Box 9 of 21 Folder 5 Montezuma Station--Butler, C. P., Sr., 1930-1934. Information on the departure of Clay P. Butler, Jr, from England; itemized listings of all that was sent to Chile, by Mr. Butler, Sr., for his son
- Box 9 of 21 Folder 6 Montezuma Station--Butler, C. P. (his wife), 1936. Personal correspondence; several newspaper clippings
- Box 9 of 21 Folder 7 Montezuma Station--B. Included: Baden, James H.; Baltimore Transfer Company; Barber, Delilah G.; Bermingham, Dorothy P.; Board of Economic Warfare; Bryant, Howard
- Box 9 of 21 Folder 8 Montezuma Station--Chile, Ambassador of, Embassy of
- Box 9 of 21 Folder 9 Montezuma Station--Chile--American Embassy, 1949-1951. American Ambassador; general correspondence regarding the Montezuma Station, with Aldrich

- Box 9 of 21 Folder 10 Montezuma Station--Chile Exploration Company, 1923-1936. General correspondence; correspondence with H. C. Bellinger, Vice President of the Chile Exploration Company
- Box 9 of 21 Folder 11 Montezuma Station--Chile Exploration Company, 1937. General correspondence
- Box 9 of 21 Folder 12 Montezuma Station--Codes for Solar Constant Values. Contains an envelope with the data
- Box 9 of 21 Folder 13 Montezuma Station--Coleman Lamp Company, 1941-1942. Correspondence and pamphlets
- Box 9 of 21 Folder 14 Montezuma Station--Commerce Department: Coast and Geodetic Survey, 1948-1952. Earthquake information and general correspondence; expenditure explanations; supply descriptions; shipping ticket; expense incident for seismograph operation
- Box 9 of 21 Folder 15 Montezuma Station--Congressional Record, March 21, 1952
- Box 9 of 21 Folder 16 Montezuma Station--Coordinator, 1925-1932. Shipper's Export Explanation; shipment contents; correspondence
- Box 9 of 21 Folder 17 Montezuma Station--Correspondence and Records, 1950-1954. Shipment details of official supplies for Montezuma
- Box 9 of 21 Folder 18 Montezuma Station--Cramer Dry Plate Company, 1926-1930. Order information; general correspondence
- Box 9 of 21 Folder 19 Montezuma Station--C. Included: Chile, Consul of; Chile Meteorological Office; Commerce, Department of; Compania Chilena De Electricidad, Ltd.; Chilean Line; Customs, Collector of
- Box 10
- Box 10 of 21 Folder 1 Montezuma Station--D. Included: Decker, Stella Moraga; Dorsey, N. W.
- Box 10 of 21 Folder 2 Montezuma Station--Expense Accounts, 1951. Reimbursement vouchers; vouchers for petty purchases.
- Box 10 of 21 Folder 3 Montezuma Station--E. Included: Eastman Kodak Company; Evening Star

- Box 10 of 21 Folder 4 Montezuma Station--Fiscal Division, 1951-1955. "Pay and Allowances of Federal Employees Stationed Overseas;" general office memoranda
- Box 10 of 21 Folder 5 Montezuma Station--Freeman, H. B. 1925-1926. Correspondence in both English and Spanish; data from April 1, 1926; "Contents from Army Trunk"
- Box 10 of 21 Folder 6 Montezuma Station--Freeman, H. B. 1927. Directions for the shipment of the ozone apparatus; Mr. Warner makes a mistake with readings of the M. O. D.; corrected solar constant values from May 25 through August 24, 1927; general correspondence; includes one photograph
- Box 10 of 21 Folder 7 Montezuma Station--Freeman, H. B. 1935-1936. Angstrom comparisons; "Contents of Boxes for Montezuma;" correspondence over the introduction of the Angstrom Pyrheliometer into regular observations; Angstrom data and remarks; "Suggestions for Freeman"
- Box 10 of 21 Folder 8 Montezuma Station--Freeman, H. B., 1939. "Instructions for Mr. Freeman, Montezuma;" solar constant values; "Notes Regarding Sending and Taking Records at Montezuma...;" Angstrom Voltmeter Shunt Constants; station reports through general correspondence
- Box 10 of 21 Folder 9 Montezuma Station--Freeman, H. B., 1940-1941. General correspondence; station reports; memorandum on the new water vapor band area tables; various notes and memoranda for Freeman
- Box 10 of 21 Folder 10 Montezuma Station--Froiland, A. G., 1945-1947. Possibility of staying an additional year instead of the original two years at the station; correspondence regarding the shipment of supplies; difficulties with Paul Greeley, Station Assistant; additional correspondence over the kidney operation that Froiland's wife underwent
- Box 10 of 21 Folder 11 Montezuma Station--Froiland, A. G., 1948-1949. "Corrections for Sky Radiation in Silver Disk Pyrheliometry;" notification of personnel action; correspondence in both English and Spanish; earthquake, December 26, 1949
- Box 10 of 21 Folder 12 Montezuma Station--F. Included: Field station employees; Florence Stove Company; Foshag, William F.; Fowle, F. E.; Foxen, Wayne B.
- Box 10 of 21 Folder 13 Montezuma Station--Grace Line, 1924-1947. General correspondence
- Box 10 of 21 Folder 14 Montezuma Station--Graf, John E., 1946-1954. General correspondence

Box 11

- Box 11 of 21 Folder 1 Montezuma Station--Greeley, F. A., 1923-1936. Correspondence regarding a post in India that Greeley was offered and accepted; information regarding the idea of having his salary paid over to his father to avoid confusion; list of supplies sent
- Box 11 of 21 Folder 2 Montezuma Station--Greeley, F. A., 1941-1943. Abbot writes of the upcoming planning session for the Institute's 100th anniversary in August of 1946; Greeley appointed to Associate Technologist; discussions over the solution they have come up with for the procurement of water; correspondence also in Spanish; included: one photograph/postcard
[Digital Content: Grayscale photo postcard of the Basilica Metropolitana in Lima, Perú, March 18, 1942 \[Image nos. SIA2013-07888 and SIA2013-07889\]](#)
- Box 11 of 21 Folder 3 Montezuma Station--Greeley, F. A., 1944-1946. Return to U.S. imminent; correspondence regarding Paul Greeley and his help with the closing of the Tyrone station; Froiland's arrival; preparations made to leave for home
- Box 11 of 21 Folder 4 Montezuma Station--Greeley, F. A., 1952. General correspondence; station reports; new factors for the Pyranometer Voltmeter Calibrations; discussions on the heavy clouds and smog at the station
- Box 11 of 21 Folder 5 Montezuma Station--Greeley, F. A., 1953. Earthquake, December 6, 1953, no injuries and only minor damage to the observatory equipment; station reports; general correspondence; news of W. H. Hoover's death; news of Greeley's father's death
- Box 11 of 21 Folder 6 Montezuma Station--Greeley, F. A., 1954. General correspondence; refrigerator explosion; problems with observing because of the Chuqui smoke; lengthening their stay in Chile for several months because of Froiland's surgery and his inability to travel
- Box 11 of 21 Folder 7 Montezuma Station--Greeley, F. A., 1955. Correspondence; preparations being made to leave the station; the Zimmermans began to look for another suitable location for a solar observatory in the Southern Hemisphere
- Box 11 of 21 Folder 8 Montezuma Station--Greeley, Olive, 1952-1953. Receipts.
- Box 11 of 21 Folder 9 Montezuma Station--Greeley, Paul, 1921-1947. Letter to Aldrich asking him to disregard Froiland's accusations, he believes that he was not acting in an irresponsible manner and would like to keep his job; Aldrich then asked for him to tender his resignation
- Box 11 of 21 Folder 10 Montezuma Station--G. Included: Garcia and Diaz

- Box 11 of 21 Folder 11 Montezuma Station--Harris, William P., 1946-1949. Correspondence regarding Harris' termination from the Observatory; application for federal employment
- Box 11 of 21 Folder 12 Montezuma Station--H. Included: Hoover, W. H. Correspondence
- Box 11 of 21 Folder 13 Montezuma Station--I-J. Included: International Harvester Company; Janesville Sand and Gravel Company; list of box contents
- Box 11 of 21 Folder 14 Montezuma Station--K. Included: Kato Engineering Company; Keuffel and Esser Company
- Box 11 of 21 Folder 15 Montezuma Station--L. Report on the eruption of Volcano Lascar; Leeds and Northrup; Letcher, Guillermo; Los Angeles Times
- Box 11 of 21 Folder 16 Montezuma Station--Maltby, Wilson R., 1933-1937. General correspondence; Maltby's resume; included: two photographs
- Box 11 of 21 Folder 17 Montezuma Station--Miscellaneous
- Box 11 of 21 Folder 18 Montezuma Station--Moore, A. F., 1941-1943. General correspondence; Moore's shipment to Chile, June 20, 1941; miscellaneous list of box contents
- Box 12
- Box 12 of 21 Folder 1 Montezuma Station--M. Included: Massachusetts Institute of Technology; Merrill, G. P.; Milwaukee Superintendent of Schools; Mitchell, J. B. Company
- Box 12 of 21 Folder 2 Montezuma Station--Night Sky Conditions. Data reports, 1945-1955
- Box 12 of 21 Folder 3 Montezuma Station--Notes and Instructions. Memorandum to station directors; notes in from Moore; Memorandum for the Solar Stations; Supplementary General Directions for Solar Constant Stations
- Box 12 of 21 Folder 4 Montezuma Station--N. Included: National Advisory Committee for Aeronautics; New York Custom House
- Box 12 of 21 Folder 5 Montezuma Station--Ober's Steamship Agency, 1925-1941. General correspondence
- Box 12 of 21 Folder 6 Montezuma Station--Pora, John A., 1949-1955. Description (and rough map) of the "Region Around Inca De Oro;" leave status; Montezuma seismograph station information; supplies for Montezuma; includes one photograph

- Box 12 of 21 Folder 7 Montezuma Station--P. Included: Pan-American Airways; Peerless Electric Company; Peru, Ambassador of; Postal Telegraph-Cable Company
- Box 12 of 21 Folder 8 Montezuma Station--R. Included: Railway Express Agency; Rubicon Company; Ruderhausen, F. J.
- Box 12 of 21 Folder 9 Montezuma Station--State Department, 1928-1952. Passport information; Standardized Government Civilian Allowance Regulations
- Box 12 of 21 Folder 10 Montezuma Station--Supplies. Official lists of supplies ready to go to Chile
- Box 12 of 21 Folder 11 Montezuma Station--Supply Division. Supply memoranda, one of which concerns Greeley's refrigerator explosion
- Box 12 of 21 Folder 12 Montezuma Station--S. Included: Semmes Motor Company; Steuart Motor Company; Stokes, F. J. Machine Company
- Box 12 of 21 Folder 13 Montezuma Station--Title to the Land at Montezuma. Papers held together, 1932
- Box 12 of 21 Folder 14 Montezuma Station--T-U. Included: Tape Exposure Directions; Treasury Department; Treasury, Secretary of
- Box 13
- Box 13 of 21 Folder 1 Montezuma Station--U.S. Dispatch Agent, 1936-1949. General correspondence; list of box contents
- Box 13 of 21 Folder 2 Montezuma Station--V-W. Included: Warner, Stanley C. (his wife); Watson, Elizabeth; Wetmore, Alexander; Wincharger Corporation
- Box 13 of 21 Folder 3 Montezuma Station--Warner, D. T., 1926-1928. General correspondence from Eugene Warner's father
- Box 13 of 21 Folder 4 Montezuma Station--Warner, E. E., 1925-1933. General correspondence; letters of recommendation for both of his brothers; includes one photograph
- Box 13 of 21 Folder 5 Montezuma Station--Warner, Stanley C., 1935-1946. Correspondence; inquiry from England for Warner's current address; includes one photograph

- Box 13 of 21 Folder 6 Montezuma Station--Watson, Walter, E., 1930-1932. Correspondence over his early departure from Chile due to his poor eyesight and the need for an immediate replacement; general correspondence
- Box 13 of 21 Folder 7 Montezuma Station--Zimmerman, J. E., 1954. Correspondence over the discontinuation of the station; most of the correspondence is directed to A. G. Froiland
- Box 13 of 21 Folder 8 Montezuma Station--Zodtner, H. H., 1927-1928. Pyrheliometer comparison data, October 2, station reports; lists of box contents; general correspondence
- Box 13 of 21 Folder 9 Montezuma Station--Zodtner, H. H., 1929-1930. Diagrams; general correspondence; station reports; data
- Box 13 of 21 Folder 10 Montezuma Station--X-Z. Included: Zoulek, J. F.

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Series 1d: FIELD STATION RECORDS: TYRONE (NEW MEXICO) STATION REPORTS, 1938-1946

Box 14

- Box 14 of 21 Folder 1 Tyrone Station--A-C. Included: Agriculture, Department of; American National Bank; Berg, Manuel; Burke, James J.; Copper and Brass Research Association
- Box 14 of 21 Folder 2 Tyrone Station--D-F. Included: Department of Vehicles and Traffic; Dorsey, N. W.
- Box 14 of 21 Folder 3 Tyrone Station--Froiland, A. G., 1938-1942. Discussions regarding: possible directorship, raise in compensation; draft deferment; early documents from Froiland's association with the Observatory
- Box 14 of 21 Folder 4 Tyrone Station--Hoover, W. H., 1941-1946. List of materials in storage; contract for telephone service; correspondence regarding the closing of the station and his involvement; weather reports
- Box 14 of 21 Folder 5 Tyrone Station--G-I. Included: Gass, E. E.; Green, Henry J.; Greer, Eugene; Hann Transfer and Storage Company; Heather, Jack (contract); Holt, Willard E.
- Box 14 of 21 Folder 6 Tyrone Station--Moore, A. F., 1938. Station reports; information on what supplies had been sent; room diagrams for the station; maps of the mountain; data from observations; includes photographs
- Box 14 of 21 Folder 7 Tyrone Station--Moore, A. F., 1939. Weather reports; station reports; correction to Pyrheliometry data; instrument readings
- Box 14 of 21 Folder 8 Tyrone Station--Moore, A. F., 1940. Tyrone tunnel temperatures; station reports; general correspondence; discussions over the inappropriate behavior of Froiland
- Box 14 of 21 Folder 9 Tyrone Station--Moore, A. F., 1941. Weather reports; tunnel temperatures; general correspondence; station reports

Box 15

- Box 15 of 21 Folder 1 Tyrone Station--Moore, A. F., 1943. Weather reports; ozone correction data; general correspondence; station reports
- Box 15 of 21 Folder 2 Tyrone Station--Moore, A. F., 1944. Correspondence delivering the news of Reverend F. W. Thomas's death; filter data; weather reports

- Box 15 of 21 Folder 3 Tyrone Station--Notes and Instructions. "Notes for Tyrone Station;"
"Hints on the Care of Resistance Boxes, Bridges, and Potentiometers"
- Box 15 of 21 Folder 4 Tyrone Station--M-P. Included: McCauley, J. L.; Mount Wilson
Observatory; New Mexico State Tourist Bureau; Office of Emergency
Management; Park and Hull; Prevost, Fred
- Box 15 of 21 Folder 5 Tyrone Station--S-V. Included: Security-First National Bank of Los
Angeles; Shellhouse Fireproof Warehouse Company; Standard Oil Company
of Texas; Treasury Department
- Box 15 of 21 Folder 6 Tyrone Station--Warner, S. C., 1945. Station reports; weather
reports; discussion over the end of the war; general correspondence
- Box 15 of 21 Folder 7 Tyrone Station--W-Z. Included: Weather Bureau; Weston Electrical
Instrument Corporation; Whitely, Carrel
- Box 15 of 21 Folder 8 Tyrone Station--Zodtner, H. H., 1941-1943. Weather reports;
requests for recommendations for future employment; correspondence
regarding the progress on the tunnel work as well as supplies; tunnel
temperatures

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Series 2: BUDGET REPORTS AND FISCAL INFORMATION, 1923-1965

Box 16

- Box 16 of 21 Folder 1 Astrophysical Observatory--Budget Matters, Papers, Reports, Plan of Operations September, 1944: plans for the immediate future of the SAO; "Reasons for Continuing Solar Work of the Astrophysical Observatory;" "Outline of Tentative Plans for the Division of Radiation and Organisms;" "Report on the Termite Damage to the Astrophysical Building"
- Box 16 of 21 Folder 2 Astrophysical Observatory--Budget Matters, Papers, 1948
- Box 16 of 21 Folder 3 Astrophysical Observatory--Budget Matters, 1952-1953
- Box 16 of 21 Folder 4 Astrophysical Observatory--Budget Matters, 1953-1954
- Box 16 of 21 Folder 5 Astrophysical Observatory--Budget Matters, 1954-1955
- Box 16 of 21 Folder 6 Astrophysical Observatory--Checkbook
- Box 16 of 21 Folder 7 Astrophysical Observatory--Papers, Estimates
- Box 16 of 21 Folder 8 Astrophysical Observatory--Papers, Reports, Plans of Operation, 1953-1954, 1955
- Box 16 of 21 Folder 9 Fiscal Division--Table Mountain, California
- Box 16 of 21 Folder 10 Smithsonian Institution--1949: Budget Estimates for the APO. Manual of Procedures; U.S. National Museum, Smithsonian Institution
- Box 16 of 21 Folder 11 Smithsonian Institution--A Description of Its Work. Includes one section on the Astrophysical Observatory and the portion of the budget that goes toward solar work
- Box 16 of 21 Folder 12 Smithsonian Institution--Total Permanent Specific Appropriations
- Box 16 of 21 Folder 13 Smithsonian Institution--T. With regards to astrophysical expenditures. Included: Taber, Stephen; Taleb, Abu; Tarcici, Adnan; Taylor Instrument Companies; Tcherniavsky, A.

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Series 3: MISCELLANEOUS REPORTS AND ARTICLES, 1923-1965

Box 17

- Box 17 of 21 Folder 1 Abbot, Charles Greeley, 1930. General correspondence out of Washington D.C.; "The Preservation of Knowledge"; diagram of the "Apparatus for Supplying Liquid Stream at Constant Rate and Temperature"
- Box 17 of 21 Folder 2 Aldrich, Loyal B.--Assistant Director of the Observatory, 1930-1944. General correspondence with the Smithsonian Institution Secretary regarding the status of the Observatory, includes what the staff in Washington is working on as well as the staff of the field stations
- Box 17 of 21 Folder 3 Astrophysical Observatory--Folder A. Reports 1, 3, 4, 6, 13, 14, and 15 of the APO, Washington, to the Office of the Quartermaster General, Military Planning Division, Research and Development Branch
- Box 17 of 21 Folder 4 Astrophysical Observatory--Folder B. List of inventions of the Astrophysical Observatory; future programs of the APO; references to the work done by the APO; Bibliography of the APO
- Box 17 of 21 Folder 5 Astrophysical Observatory--1952. Papers, reports, plans of operations; articles on the Observatory itself and its accomplishments
- Box 17 of 21 Folder 6 Carmichael, Leonard--1953. Memorandum to Aldrich regarding several issues of great concern to the future of the Observatory
- Box 17 of 21 Folder 7 Clark Mountain Station, 1949. Proposal to relocate a station at Clark Mountain, California; Information on the buildings that would need to be constructed; application for land; pamphlets on several buildings/houses that could easily be erected on the mountain; funds were never available for this endeavor

Box 18

- Box 18 of 21 Folder 1 Clayton, H. H., 1942-1946. General correspondence; "Mean Value of the Solar Constant for each day Large Spots were Crossing the Sun"
- Box 18 of 21 Folder 2 Miscellaneous Secretaries Papers--Folder A. Future Program of the Astrophysical Observatory; Hall-Scott catalogue; "The New Spectrum;" "The Laws of Nature;" newspaper clippings
- Box 18 of 21 Folder 3 Miscellaneous Secretaries Papers--Folder B. Newspaper articles; "Heat of the Sun," presentation by Abbot before the National Academy of Sciences (discusses instruments, stories about the APO and expeditions of the APO; proposals of the APO, etc.; comparisons of Montezuma and Mount St. Katherine stations)

- Box 18 of 21 Folder 4 Mount Brukarros. Pyrheliometer data
- Box 18 of 21 Folder 5 National Geographic Station--A. Included: Adams, W. S.; American Express Company; Apparatus and Materials List
- Box 18 of 21 Folder 6 Newspaper Clippings
- Box 18 of 21 Folder 7 Research Corporation of New York. Abstract of Ceottrell's article on its origin

Box 19

- Box 19 of 21 Folder 1 Secretaries Letters. "The Standard Scale of Solar Radiation"
- Box 19 of 21 Folder 2 Science. "The Solar Constant"
- Box 19 of 21 Folder 3 Short-Method Reduction Table--Montezuma. Photographic copy
- Box 19 of 21 Folder 4 South African Expedition--Moore, A. F.--Folder A, 1931-1932. General correspondence; Weather Between Peaks
- Box 19 of 21 Folder 5 South African Expedition--Moore, A. F. Folder B, 1931-1932. Weather record for Grosskopf Region; weather record for Lord Hill Region; news clippings; general correspondence; includes two envelopes of photographs
- Box 19 of 21 Folder 6 South African Expedition--A-Z. Included: American Express Company; Barber Steamship Company; American-West African Line; Basingthwaite, Otto; Cook, Thos. and Son; Mendes, Henrique Jose
- Box 19 of 21 Folder 7 Stetson, Harlan T., 1927-1945. General correspondence; Stetson was a professor at Massachusetts Institute of Technology
- Box 19 of 21 Folder 8 Whipple, F. J. W., 1926-1942. Discusses solar variation and mentions if there could be relation with bolometric pressures, September 28, 1939

Box 20

- Box 20 of 21 Folder 1 Astrophysical Observatory--1945-1947. List of Notable Advances in Science in the Astrophysical Observatory; salary lists; Inventions in the Astrophysical Observatory
- Box 20 of 21 Folder 2 Director's Correspondence. General correspondence

- Box 20 of 21 Folder 3 Financial Report. Classification of objects of expenditure; financial reports from L. O. Sordahl
- Box 20 of 21 Folder 4 National Geographic Society Grant. Receipts
- Box 20 of 21 Folder 5 Tent Research Report. Solar Radiation on Exposed Army Tents and Canvas
- Box 20 of 21 Folder 6 Work Load. General correspondence; "Analysis of Work Program; List of Positions"
- Box 20 of 21 Folder 7 Yearly Reports. Dynamical Limits on a Lunar Origin for Tektites.; Reports 1, 3, 4-7, 10, 13, and 15 of the Astrophysical Observatory to the Office of the Quartermaster General

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Series 4: QUARTERLY PROGRESS REPORTS, 1951; 1959-1964

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Box 21 of 21	Folder 1 Quarterly Progress Reports. Included: 1951, 1959, 1960
Box 21 of 21	Folder 2 Quarterly Progress Reports. Included: 1960, 1961
Box 21 of 21	Folder 3 Quarterly Progress Reports. Included: 1961
Box 21 of 21	Folder 4 Quarterly Progress Reports. Included: 1961, 1962
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Box 21 of 21	Folder 6 Quarterly Progress Reports. Included: 1963
Box 21 of 21	Folder 7 Quarterly Progress Reports. Included: 1964, 1965

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