



# Smithsonian

*National Air and Space Museum*

## Science Service Astronomy and Astronautics Files

Allan Janus

2009



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## Collection Overview

<b>Repository:</b>	National Air and Space Museum Archives
<b>Title:</b>	Science Service Astronomy and Astronautics Files
<b>Date:</b>	1920-1979
<b>Identifier:</b>	NASM.1987.0125
<b>Creator:</b>	Science Service
<b>Extent:</b>	41.04 Cubic feet (114 boxes)
<b>Language:</b>	English .
<b>Summary:</b>	Science Service was founded in 1921 by newspaper publisher Edward Willis Scripps (1854-1926) and the zoologist William Emerson Ritter (1856-1944) as a news service for the purpose of disseminating information on scientific progress to the public, and to "present facts in readable and interesting form." The Science Service Astronomy and Astronautics files in the National Air and Space Archives consists of papers, news releases, articles, newspaper and magazine clippings, and technical papers pertaining mainly to astronomy and astronautics and dating from the late 1920s through the early 1970s.

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## Administrative Information

### Acquisition Information

Science Service Astronomy and Astronautics Files, gift, 1986

### Processing Information

For many years, Science Service maintained an extensive informational "morgue file" of articles, clippings, papers and photographs. Several branches of the Smithsonian Institution received sections of these files as they were deaccessioned at different times. During the 1970s, The United States Naval Observatory acquired approximately twenty-four linear feet of files from Science Service. In 1987, these files were transferred to the National Air and Space Museum's Information Management Division, now the Archives Division. Some material was filed into the Archives Division's Technical Files series; the bulk of the collection was stored at the Museum's Paul E. Garber Facility in Silver Hill, Maryland .

Additional information on the history of the Science Service may be found on the National Museum of American History's Science Service web site ([scienceservice.si.edu](http://scienceservice.si.edu)) and the Society for Science & the Public's web site ([www.societyforscience.org](http://www.societyforscience.org)). A listing of other Science Service collections held by the Smithsonian may be found through the Smithsonian Institution Research Information System (SIRIS) online finding aid search page.

### Preferred Citation

Science Service Astronomy and Astronautics Files, Acc. 1987-0125, National Air and Space Museum, Smithsonian Institution.

## Restrictions

No restrictions on access.

## Conditions Governing Use

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## Historical Note

Science Service was founded in 1921 by newspaper publisher Edward Willis Scripps (1854-1926) and the zoologist William Emerson Ritter (1856-1944) as a news service for the purpose of disseminating information on scientific progress to the public, and to "present facts in readable and interesting form." The service provided news stories to subscribing newspapers and issued the Daily Science News Bulletin (later renamed the Daily Mail Report) and the Science News Letter. Science Service made major contributions to science education through its sponsorship of the Science Clubs of America, the Science Talent Search, and National Science Fairs. Its monthly Things of Science educational kits were distributed by subscription from 1940 to 1989. The Science News Letter was renamed Science News in 1966. In 1988, Science Service became the Society for Science & the Public.

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## Scope and Contents

The Science Service Astronomy and Astronautics files in the National Air and Space Archives consists of papers, news releases, articles, newspaper and magazine clippings, and technical papers pertaining mainly to astronomy and astronautics and dating from the late 1920s through the early 1970s. News coverage of the U.S.--oviet space race and the Cold War is particularly extensive. The collection also includes many sighting report telegrams sent by astronomers to Science Service. Small selections of other subjects were included in the collection.

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## Arrangement

The Science Service Collection is organized in the following series:

Series 1 --Clippings, Publications, Papers, and Press Releases

Collection material was housed in folders organized and titled according to the Library of Congress Classification system.

Library of Congress Classification Subjects in the Science Service Collection:

B - Philosophy. Psychology. Religion BF Psychology

Q - Science QB Astronomy QC Physics QD Chemistry QL Zoology

T - Technology TJ Mechanical engineering and machinery TL Motor vehicles, Aeronautics. Astronautics [A small group of TL files, filed under QB] [Another group of TL files]

V - Naval Science VK Navigation. Merchant marine VM Naval architecture. Shipbuilding. Marine engineering

Series 2 --Photographs

Subseries 1 --Photographs in Folders or with Subjects Indicated

Subseries 2 --Loose Photographs without Subject Headings

Series 3 --Miscellaneous Material

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## Names and Subject Terms

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

Subjects:

- Astronautics
- Astronomy
- Cold War
- Rocketry
- Space race

Types of Materials:

- Clippings
- Photographs

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## Container Listing

### Series 1: Clippings, Publications, Papers, and Press Releases

Scope and Contents: Typical folders in this series contain a mix of correspondence, press releases, papers, newspaper clippings, brochures, and photographs. Folder captions, including Library of Congress classifications, are transcribed from the original typed Science Service folder labels; we have retained the Science Services' abbreviations. There seems to have been no standard dating convention on file listings --dates are here transcribed as they were found on the original Science Service file folders.

Parentheses --(...) -- were used by Science Service Staff in captions of the original file folders.

Brackets --[...] --in these listings were inserted by NASM Archives Division staff, and refer to handwritten notes and cross references on the original folders, or to material from folders without labels or titles.

Asterisks - \* - were inserted by NASM Archives Division staff to designate loose material that was found in collection boxes --this material has been placed in folders and labeled by Archives Division staff .

Box 1, Folder 1	BF Man in Space
Box 1, Folder 2	QB Asteroids -- See Also: Minor Planets
Box 1, Folder 3	QB Astronomy 1950-1959
Box 1, Folder 4	QB Astronomy 1960-1970
Box 1, Folder 5	QB Astronomy -- American Assn. of Variable Star Observers
Box 1, Folder 6	QB Astronomy -- Computers
Box 1, Folder 7	QB Astronomy -- Galactic
Box 1, Folder 8	QB Astronomy -- Gamma Rays
Box 1, Folder 9	QB Astronomy -- Ground-Based (NAS-NRC Report)
Box 2, Folder 1	QB Astronomy -- History
Box 2, Folder 2	QB Astronomy -- Infrared
Box 2, Folder 3	QB Astronomy -- International Cooperation
Box 2, Folder 4	QB Astronomy -- Millimeter Wave
Box 2, Folder 5	QB Astronomy -- Molecular [Ammonia -- Formaldehyde] [See also: QB - Hydroxyl -- Interstellar; Hydrogen -- Interstellar]

Box 2, Folder 6	QB Astronomy -- Neutrinos [See also: QC Neutrinos -- '65]
Box 2, Folder 7	QB Astronomy -- Photographs
Box 2, Folder 8	QB Astronomy -- Planetary
Box 2, Folder 9	QB Astronomy -- Satellites
Box 2, Folder 10	QB Astronomy -- Solar Astronomy*
Box 2, Folder 11	QB Astronomy -- Soviet
Box 2, Folder 12	QB Astronomy -- Ultraviolet
Box 2, Folder 13	QB Astronomy -- X-Ray [SCO XR-1, TAU XR-1, Oph XR-1, Sgr XR-1] [See also: QB -- Neutron Stars & Galaxies, Explosions of or Quasars or QB Neutrinos or QB Neutron Stars]
Box 2, Folder 14	QB Astronomy -- X-Rays [-- 1967/68] [Cyg XR-2, Centaurus XR-2]
Box 3, Folder 1	QB Astrophysical Observatory, Smithsonian - Special Reports [1957]
Box 3, Folder 2	QB Astrophysics
Box 3, Folder 3	QB Autumn, Beginning of -- Autumnal Equinox [See also: QC -- Meteorol. -- Autumn]
Box 3, Folder 4	QB Global Atmospheric Research Program (GARP)*
Box 3, Folder 5	QB Baade's Object
Box 3, Folder 6	QB Black Holes
Box 3, Folder 7	QB Bolide
Box 3, Folder 8	QB Cat Eye [-Electronic] (Photographs stars)
Box 3, Folder 9	QB Causal Mechanics (Kozyrev)
Box 3, Folder 10	QB Telescope (Space telescope)
Box 3, Folder 11	QB Celestial Mechanics
Box 3, Folder 12	QB Center for the Study of Short-Lived Phenomena [See also: QB -- Meteors -- Fireballs]
Box 3, Folder 13	QB Chronograph

Box 3, Folder 14	QB Chronometer
Box 3, Folder 15	QB Comet 1947 N
Box 3, Folder 16	QB Comets
Box 3, Folder 17	QB Comets 1950
Box 3, Folder 18	QB Comets 1960-1963 [-64]
Box 3, Folder 19	QB Comets 1965 [-66-]
Box 3, Folder 20	QB Comets 1967 [/]
Box 3, Folder 21	QB Comets -- Alcock
Box 3, Folder 22	QB Comet, Beyer 1930b
Box 4, Folder 1	QB Comet Arend-Roland
Box 4, Folder 2	QB Comet Boyer. March 7, 1934
Box 4, Folder 3	QB Comets -- Brooks Periodic 1925. (return of 1932)
Box 4, Folder 4	QB Comets -- Burnham
Box 4, Folder 5	QB Comet Carrasco April 1932
Box 4, Folder 6	QB Comets, Comas-Sola August 1935
Box 4, Folder 7	QB Comets, Cominsky 1939
Box 4, Folder 8	QB Comets, 1940 Cunningham
Box 4, Folder 9	QB Comets Daniel
Box 4, Folder 10	QB Dodwell Comet Dec. 17, 1932
Box 4, Folder 11	QB Comets, Dutoit Object, July 20, 1941
Box 4, Folder 12	QB Comet -- Encke's [1931, 1934, 1937, 57]
Box 4, Folder 13	QB Comet -- Faye's [1932]
Box 4, Folder 14	QB Comets -- Finzler-Zurich 1937
Box 4, Folder 15	QB Comet, Forbes 1930 E. Discovered June 2, 1930



Box 4, Folder 16	QB Comets -- Gale
Box 4, Folder 17	QB Comets -- Geddes Comet 1932
Box 4, Folder 18	QB Comets -- Giacobini's Comet. [Meteor shower of Oct. 9, 46]
Box 4, Folder 19	QB Comet Grigg-Skjellerup 1932
Box 4, Folder 20	QB Comet Grigg-Skjellerup 1937
Box 4, Folder 21	QB Comets -- Halley's
Box 4, Folder 22	QB Hassel Comet
Box 4, Folder 23	QB Comet Holmes, 1964*
Box 4, Folder 24	QB Comet Houghton, April 1, 1932
Box 4, Folder 25	QB Comets -- Hubble 1937
Box 4, Folder 26	QB Comets -- Bennett, 1970; Honda, 1968*
Box 4, Folder 27	QB Comet Humason
Box 4, Folder 28	QB Comet Ikeya-Seki
Box 4, Folder 29	QB Comet Jackson
Box 4, Folder 30	QB Comet -- Johnson's Comet January, 1934
Box 4, Folder 31	QB Johnson Comet Jan.8, 1935
Box 4, Folder 32	[QB] Comet Kaho 1936 July 17
Box 4, Folder 33	QB Comet Kearns-Kwee, 1963*
Box 4, Folder 34	[QB] Kellaway Object Jan. 6, 1935
Box 4, Folder 35	QB Comet Kohoutek 1973/74
Box 4, Folder 36	QB Comet Kopff May 25, 1932
Box 4, Folder 37	QB Comet Mrkos 1957
Box 5, Folder 1	QB Comet Nagata [July 15, 1931-] (Photograph of Masani Nagata included)
Box 5, Folder 2	QB Nakamura's Comet -- Sibata, Kyoto, 1930 Nov.13

Box 5, Folder 3	QB Comet Neujmin 1931
Box 5, Folder 4	QB Comets -- Newman 1932
Box 5, Folder 5	QB Comet Oterma
Box 5, Folder 6	QB Comet Peltier, 1936
Box 5, Folder 7	QB Comet Peltier, Feb. 16, 1933
Box 5, Folder 8	QB Comet Peltier [1932]
Box 5, Folder 9	QB Comet Pons-Winnecke -- Return of 1933.
Box 5, Folder 10	QB Reinmuth Comet, 1934
Box 5, Folder 11	QB Comet Ryves Aug. 1931
Box 5, Folder 12	QB Comet -- Schmitt's [June 25, 1932]
Box 5, Folder 13	QB Comet Schwassman-Wachmann 2nd Comet. [=1929 I = 1934 C]
Box 5, Folder 14	QB Comet Schwassmann-Wachmann May 2, 1930 [Comet 1930 D]
Box 5, Folder 15	QB Comets -- Schwassmann-Wachmann Comet 1925 II See Harvard card 415
Box 5, Folder 16	QB Comets -- Seki
Box 5, Folder 17	QB Comet Skjellerup [1927]
Box 5, Folder 18	QB Comets -- Tago-Sato-Kosaka
Box 5, Folder 19	QB Comet Tempel 2 (Yerkes Observatory Sept. 21, 1930)
Box 5, Folder 20	QB Comet Tomita
Box 5, Folder 21	QB Comet Tuttle 1967*
Box 5, Folder 22	QB Comet 1935 (Van Biesbroeck)
Box 5, Folder 23	QB Comets -- Synthetic Comets*
Box 5, Folder 24	QB Comets -- Whipple [1937]
Box 5, Folder 25	QB Comets -- Whipple Comet. [1933 1940]
Box 5, Folder 26	QB Comet Wild 1967*

Box 5, Folder 27	QB Comets -- Wilks
Box 5, Folder 28	QB Comets -- Wirtanen
Box 5, Folder 29	QB Comets -- Wolf's periodic comet
Box 5, Folder 30	QB Conjunction, Triple - Mars & Jupiter
Box 5, Folder 31	QB Constellations
Box 5, Folder 32	QB Coronagraph
Box 5, Folder 33	QB Cosmic Ray Astronomy*
Box 5, Folder 34	QB Cosmography
Box 5, Folder 35	QB Cosmology -- Jeans & Millikan theories, New Republic, '31
Box 6, Folder 1	QB Cosmology
Box 6, Folder 2	QB Dust Interplanetary
Box 6, Folder 3	QB Dust Interplanetary [-1965/66] [See also: QB -- Earth -- Satellite Clouds]
Box 6, Folder 4	QB Dust -- Interstellar [See also: QB -- Interstellar Matter]
Box 6, Folder 5	QB Earth [-1927-1937] [See also: QE Geol. Earth]
Box 6, Folder 6	QB Earth [-1958-1966]
Box 7, Folder 1	QB Earth -- Age*
Box 7, Folder 2	QB Earth -- Density
Box 7, Folder 3	QB Earth -- Cloud Satellites*
Box 7, Folder 4	QB Earth -- Moon Distance
Box 7, Folder 5	QB Earth -- Origin of
Box 7, Folder 6	QB Earth -- Origin Etc. Urey
Box 7, Folder 7	QB Earth -- Rotation -- Foucault's Pendulum
Box 7, Folder 8	QB Earth -- Satellite Clouds [See Also: QB -- Dust -- Interplanetary & QB -- Earth, Satellites, Natural]
Box 7, Folder 9	QB Earth -- Satellites [Natural]

Box 7, Folder 10	QB Earth -- Shape
Box 7, Folder 11	QB Eclipse -- General
Box 7, Folder 12	QB Eclipse, Lunar
Box 7, Folder 13	QB Eclipse, Lunar May 14, 1938
Box 7, Folder 14	QB Eclipse, Lunar August 25, 1942
Box 7, Folder 15	QB Eclipse, Lunar, 1949-1950
Box 7, Folder 16	QB Eclipse, Lunar -- 1960
Box 7, Folder 17	QB Eclipse, Lunar -- 1964
Box 7, Folder 18	QB Eclipse, Lunar -- 1968*
Box 8, Folder 1-2	QB Eclipse 1925 2 Folders
Box 8, Folder 3	QB Eclipse 1925 -- Correspondence
Box 8, Folder 4	QB Eclipse 1925 Literature
Box 8, Folder 5	QB Eclipse 1925 Literature [Observation from USS Los Angeles]
Box 8, Folder 6	[QB Eclipse 1925 -- News Clippings, Telegrams]
Box 8, Folder 7	QB Eclipse of Sun -- 1927
Box 8, Folder 8	[QB Eclipse of the Sun -- 1929]
Box 9, Folder 1	[QB Eclipse of the Sun -- 1930]
Box 9, Folder 2	QB Eclipse of the Sun - October 22, 1930
Box 9, Folder 3	QB Eclipse, Solar -- August 31, 1932
Box 9, Folder 4	QB Eclipse, Solar -- August 31, 1932 -- Responses to Queries.
Box 9, Folder 5	QB Eclipse, Solar -- August 31, 1932 -- Radio or Corpuscular
Box 9, Folder 6	QB Eclipse, Solar -- August 31, 1932 -- Maps for Time, Etc.
Box 10, Folder 1	QB Eclipse, Solar -- August 31, 1932

Box 10, Folder 2	QB Eclipse, Solar -- August 31, 1932 SS Expedition -- Summit Mt. Wash[ington]. N.H.
Box 10, Folder 3	QB Eclipse [Solar] -- Feb. 14, 1934
Box 10, Folder 4	QB Eclipses, Solar
Box 10, Folder 5	QB Total Solar Eclipse -- Feb. 14, 1934 Pacific Area
Box 10, Folder 6	QB Eclipse, Solar -- June 19, 1936
Box 10, Folder 7	QB Eclipse, Solar -- June 30, 1954
Box 10, Folder 8	QB Eclipse, Solar -- May 29, 1938
Box 10, Folder 9	QB Eclipse of Sun, Apr. 20, 1939
Box 10, Folder 10	QB Eclipse, Solar -- April 7, 1940. Annular eclipse
Box 10, Folder 11	QB Eclipse, Solar -- April 17, 1940
Box 11, Folder 1	QB Eclipse, Solar -- Oct. 1, 1940
Box 11, Folder 2	QB Eclipse, Solar -- Sept. 21, 1941
Box 11, Folder 3	QB Eclipses, solar -- Aug 12 [,1942]
Box 11, Folder 4	QB Eclipse, Solar -- Feb 4, 1943. [1-25-1944]
Box 11, Folder 5	QB Eclipses, Solar 1945
Box 11, Folder 6	Eclipses [July 9, 1945] [Color]
Box 11, Folder 7	QB Eclipse -- Solar Nov 23, 1946
Box 11, Folder 8	Eclipse, Solar -- May 20 1947. Expedition to Brazil, etc. Stokley to cover for SS
Box 11, Folder 9	QB Eclipse, [Solar] May 8-9, 1948
Box 11, Folder 10	QB Eclipse Solar [9/12/50]
Box 11, Folder 11	QB Eclipse, Solar 1951
Box 11, Folder 12	QB Eclipses -- Solar, 1952 Khartoum
Box 11, Folder 13	QB Eclipse, Solar Oct. 12, 1958

Box 11, Folder 14	QB Eclipse -- Solar [- 1959-1961]
Box 11, Folder 15	QB Eclipse, Solar -- 1962
Box 12, Folder 1	QB Eclipse, Solar -- July 20, 1963
Box 12, Folder 2	QB Eclipse, Solar -- May 30, 1965
Box 12, Folder 3	QB Eclipse -- Solar May 20, 1966
Box 12, Folder 4	QB Eclipse, Solar -- Nov. 12, 1966
Box 12, Folder 5	QB Eclipse, Solar -- May 9, 1967*
Box 12, Folder 6	QB Eclipse -- Solar -- Sept. 22, 68
Box 12, Folder 7	QB Eclipse -- Solar, 1969
Box 12, Folder 8	QB Eclipse -- Solar, March 7, 1970
Box 12, Folder 9	QB Eclipse -- Solar -- 1972 [Jan 16]
Box 12, Folder 10	QB Eclipse, Solar -- 1973
Box 12, Folder 11	QB Eclipse, Solar -- June 20, 1974*
Box 12, Folder 12	QB Eclipse -- Solar -- 1976-1980
Box 12, Folder 13	QB Eclipses- Solar, Eyeshield
Box 12, Folder 14	QB Eclipse -- Stellar
Box 12, Folder 15	QB Eclipses -- Dark
Box 12, Folder 16	QB Elements -- Abundance of
Box 13, Folder 1	QB Elements -- Formation or Origin
Box 13, Folder 2	QB End of World
Box 13, Folder 3	QB Ephemeris Time*
Box 13, Folder 4	QB Extragalactic Nonthermal Sources
Box 13, Folder 5	QB Flare Stars [See also QB Radio Stars]
Box 13, Folder 6	QB Flat Earth Theory

Box 13, Folder 7	QB Galaxies
Box 13, Folder 8	QB Galaxies [1950-1959]
Box 13, Folder 9	QB Galaxies [1960/1961/1964]
Box 13, Folder 10	QB Galaxies -- 1965/66/67
Box 13, Folder 11	QB Galaxies -- 1968/69/70/71
Box 13, Folder 12	QB Galaxies -- Andromeda M31
Box 13, Folder 13	QB Galaxies -- Milky Way*
Box 13, Folder 14	QB Galaxies -- Explosions (M-82) [Gravitational Collapse (3C-273)] [See also: QB Quasars]
Box 13, Folder 15	QB Galaxies -- Seyfert
Box 13, Folder 16	QB Gegenschein [See also: QB Night Glow, Zodiacal Light]
Box 13, Folder 17	QB Geodesy
Box 13, Folder 18	QB Galaxies -- Compact Galaxies*
Box 14, Folder 1	QB Globular Clusters
Box 14, Folder 2	QB Gravity
Box 14, Folder 3	QB Gravity Research Foundation
Box 14, Folder 4	QB Gravity -- 1957-58-59-60 [-62-64] [See also: TL Aero -- Space -- Weightlessness]
Box 14, Folder 5	QB Gravity -- 1965- [68]
Box 14, Folder 6	QB Gravity Apparatus C and G Surv. [Coast and Geodetic Survey]
Box 14, Folder 7	QB Green Flash
Box 14, Folder 8	QB Greenhouse Effect
Box 14, Folder 9	QB Hyades Cluster
Box 14, Folder 10	QB Hubble Constant
Box 14, Folder 11	QB International Astronomical Union

Box 14, Folder 12	QB Interstellar Helium
Box 14, Folder 13	QB Interstellar Hydrogen
Box 14, Folder 14	QB Interstellar Hydroxyl [For other interstellar molecules: Ammonia, formaldehyde, etc. See: QB Astronomy -- Galactic]
Box 15, Folder 1	QB Interstellar Matter
Box 15, Folder 2	QB Jupiter
Box 15, Folder 3	QB Jupiter -- 1964/65 [1966/67] [See also: QB Jupiter -- Life on]
Box 15, Folder 4	QB Jupiter -- 1968/69
Box 15, Folder 5	QB Jupiter -- Life On
Box 15, Folder 6	QB Jupiter -- Red Spot
Box 15, Folder 7	QB Jupiter -- Satellites
Box 15, Folder 8	QB Jupiter -- Tenth Satellite? May 1934
Box 15, Folder 9	QB Latitude, Variation of
Box 15, Folder 10	QB Lithium*
Box 15, Folder 11	QB Magellanic Clouds
Box 15, Folder 12	QB Magnetism -- Solar*
Box 15, Folder 13	QB Magnetic Storms
Box 16, Folder 1	QB Mars
Box 16, Folder 2	QB Mars [1954]
Box 16, Folder 3	QB Mars 1956 [-1959]
Box 16, Folder 4	QB Mars 1960
Box 16, Folder 5	QB Mars -- 1963 -- [1965 -- 66 -- 67]
Box 16, Folder 6	QB Mars -- 1968/69/70
Box 17, Folder 1	QB Mars -- Artificial Moons [Russian Conjecture] [See also: QB Moon -- Volcanoes (Russian Conjectures); TL -- Aer-Space -- Russian Conjectures]



Box 17, Folder 2	QB Mars -- Atmosphere [See also: QB Mars -- Life]
Box 17, Folder 3	QB Mars -- Life On
Box 17, Folder 4	QB Mars -- Moons
Box 17, Folder 5	QB Mars -- Surface
Box 17, Folder 6	QB Mars -- Volcanic
Box 17, Folder 7	QB Mercury
Box 17, Folder 8	QB Meridian
Box 17, Folder 9	QB Metagalaxy
Box 17, Folder 10	QB Meteor Craters
Box 18, Folder 1	QB Meteor Craters -- American [See also: QB Meteor Craters -- Ariz and QB Meteor Craters -- Carolina Bay]
Box 18, Folder 2	QB Meteor Craters -- Arizona
Box 18, Folder 3	QB Meteor Craters -- Carolina Bays
Box 18, Folder 4	QB Meteor Craters -- Chubb
Box 18, Folder 5	QB Meteor Photography Network
Box 18, Folder 6	QB Meteor Showers -- October 9, 1933
Box 18, Folder 7	QB Meteor Showers -- 1962 -- (Old folder missing) [Perseids, Leonid]
Box 18, Folder 8	QB Meteor Showers -- Leonids
Box 18, Folder 9	QB Meteors 1960 -- 62 -- [63]
Box 18, Folder 10	QB Meteors & Fireballs*
Box 18, Folder 11	QB Meteorics -- Terminology
Box 18, Folder 12	QB Meteorite Craters
Box 18, Folder 13	[QB Meteorite Dust]
Box 19, Folder 1	QB Meteorites [1920 -- 50]
Box 19, Folder 2	QB Meteorites [1951-1959]

Box 19, Folder 3	QB Meteorites [1960-63]
Box 19, Folder 4	QB Meteorites -- 1964/65
Box 20, Folder 1	QB Meteorites -- 1966/67[/68]
Box 20, Folder 2	QB Meteorites -- 1969/70/71
Box 20, Folder 3	QB Meteorites -- Age Of
Box 20, Folder 4	QB Meteorites -- Arizona
Box 20, Folder 5	QB Meteorites -- Australia
Box 20, Folder 6	QB Meteorites -- Bacteria In
Box 20, Folder 7	QB Meteorites -- Chondrules
Box 20, Folder 9	QB Meteorites -- Life Evidence [See also: TL Space-Life in]
Box 20, Folder 9	QB Meteorite -- Paragould, Ark. Feb. 17, 1930
Box 20, Folder 10	QB Meteorites -- Russia [Siberian -- Tunguska]
Box 20, Folder 11	QB Meteorites -- South Africa
Box 20, Folder 12	QB Meteorites (War of the Worlds broadcast scare, Oct 30, 1938)
Box 20, Folder 13	QB Meteorites -- Tektites*
Box 20, Folder 14	TL Air Cushion Vehicles*
Box 20, Folder 15	TL Air Bus*
Box 20, Folder 16	TL Autogiros*
Box 20, Folder 17	QB Meteorites -- Upper Volta (Bogu meteorite, 8/14/62, Africa)
Box 20, Folder 18	QB Meteoroids
Box 21, Folder 1-2	QB Meteors
Box 21, Folder 3	QB Meteors 1933
Box 21, Folder 4	QB Meteors 1936
Box 21, Folder 5	QB Meteors 1945

Box 21, Folder 6	QB Meteors -- Oct. 9, 1946. Giacoboni-Zinner comet debris
Box 21, Folder 7	QB Meteors
Box 21, Folder 8	QB Meteors 1950-54
Box 22, Folder 1	QB Meteors 1955-59
Box 22, Folder 2	QB Meteors -- Fireballs
Box 22, Folder 3	QB Meteors -- Life*
Box 22, Folder 4	QB Meteors -- Lunar
Box 22, Folder 5	QB Milky Way Galaxy
Box 22, Folder 6	QB Milky Way Galaxy -- 1950-1959
Box 22, Folder 7	QB Milky Way Galaxy -- 1960-1964
Box 22, Folder 8	QB Moon [1921-1943]
Box 22, Folder 9	QB Moon [1945-1957]
Box 23, Folder 1	QB Moon [1953-1959]
Box 23, Folder 2	QB Moon 1960 [-62-1963]
Box 23, Folder 3	QB Moon 1964- [1965-66]
Box 23, Folder 4	QB Moon -- 1967/68/69/70
Box 23, Folder 5	QB Moon -- Atmosphere
Box 23, Folder 6	QB Moon -- Dark Side [See also: TL -- Aero-Space Travel -- Russia -- Lunik III]
Box 23, Folder 7	QB Moon - Chemistry
Box 23, Folder 8	QB Moon -- Color [Red Spots]
Box 24, Folder 1	QB Moon -- Craters
Box 24, Folder 2	QB Moon -- Dating; See also -- Moon - Rock Samples
Box 24, Folder 3	QB Moon -- Distance*

Box 24, Folder 4	QB Moon -- Effects on Earth [See QC-Meteorol.-Weather-Moon's Effect] (Empty folder)
Box 24, Folder 5	QB Moon -- Evolution
Box 24, Folder 6	QB Moon -- Geology
Box 24, Folder 7	QB Moon -- Gravity
Box 24, Folder 8	QB Moon -- Ice and Water
Box 24, Folder 9	QB Moon -- Illusion
Box 24, Folder 10	QB Moon -- Luminescence
Box 24, Folder 11	QB Moon -- Magnetism
Box 24, Folder 12	QB Moon -- Man-Made
Box 24, Folder 13	QB Moon -- Map
Box 24, Folder 14	QB Moon -- Mascons
Box 24, Folder 15	QB Moon -- Metals
Box 24, Folder 16	QB Moon -- Origin
Box 24, Folder 17	QB Moon -- Radio Relay
Box 24, Folder 18	QB Moon -- Rock Samples [See also: QB -- Moon -- Geology; Moon -- Metals; Moon -- Ice & Water]
Box 24, Folder 19	QB Moon -- Publications on Apollo 11 Lunar Samples*
Box 25, Folder 1	QB Moon -- Seismic Experiment [See also: QE -- Geology -- Seismograph -- Automatic]
Box 25, Folder 2	QB Moon -- Solar Eclipses
Box 25, Folder 3	QB Moon -- Surface -- ['55] -- 1961-62 [See also: TL -- Space Travel -- Moon Landing]
Box 25, Folder 4	QB Moon -- Surface -- 1963
Box 25, Folder 5	QB Moon -- Surface -- 1964 [See also: QB Moon -- Color]
Box 25, Folder 6	QB Moon -- Surface -- 1965/66

Box 25, Folder 7	QB Moon -- Surface -- 1967/68
Box 25, Folder 8	QB Moon -- Surface -- 1969/70
Box 25, Folder 9	QB Moon -- Surface -- Contamination
Box 25, Folder 10	QB Moon -- Telescope
Box 25, Folder 11	QB Moon -- Temperature
Box 26, Folder 1	QB Moon -- Thermal Properties (hot spots)
Box 26, Folder 2	QB Moon -- Vulcanism
Box 26, Folder 3	QB Nautical Almanac
Box 26, Folder 4	QB Nebulae
Box 26, Folder 5	QB Nebulae -- Crab Nebula -- Supernova A.D. July 4, 1054 [See also: QB X-Ray Astronomy]
Box 26, Folder 6	QB Nebulae -- Hubble, Shapely, Etc. 1933-34
Box 26, Folder 7	QB Nebulae -- Red Shift
Box 26, Folder 8	QB Neptune
Box 26, Folder 9	QB Neutron Star
Box 26, Folder 10	QB Night Glow [See also: QB Gegenschein; Zodiacal Light]
Box 26, Folder 11	QB Novae
Box 26, Folder 12	QB Nova March 20, 1933
Box 26, Folder 13	QB Nova Aquilae -- 1936
Box 26, Folder 14	QB Nova Aquilae II - Tamm Oct. 1936
Box 26, Folder 15	QB Nova Gamma Cassiopeiae
Box 26, Folder 16	QB Nova Hercules Dec. 1934
Box 26, Folder 17	QB Nova Lacertae [1936]
Box 26, Folder 18	QB Nova Ophiuchi No. 3 -- Peltier, Aug. 15, 1933
Box 26, Folder 19	QB Nova Puppis Nov. 1942

Box 26, Folder 20	QB Nova Sagittarii -- 1936
Box 27, Folder 1	QB Nova, Super -- Zwickey, August 31, 1937
Box 27, Folder 2	QB Nova, 1950
Box 27, Folder 3	QB Novae [See also: QB -- Supernovae]
Box 27, Folder 4	QB Novae -- Conference on dwarf stars and novae, France, 1939
Box 27, Folder 5	QB Observatories
Box 27, Folder 6	QB Observatories -- 1960-1964-[70]
Box 27, Folder 7	QB Observatories -- China*
Box 27, Folder 8	QB Observatories -- Greenwich
Box 27, Folder 9	QB Observatories -- Harvard College [See also: QC -- Harvard College Obs.]
Box 27, Folder 10	QB Observatories -- Latin America
Box 27, Folder 11	QB Observatories -- Hawaii Haleakala
Box 27, Folder 12	QB Observatories -- Australia*
Box 28, Folder 1	QB Observatories -- James C. Veen Observatory, Lowell, Michigan*
Box 28, Folder 2	QB Observatories -- Kitt Peak National [Astronomical Aura]
Box 28, Folder 3	QB Observatories -- Lick
Box 28, Folder 4	QB Observatories -- McDonald
Box 28, Folder 5	QB Observatories -- McMath-Hulbert Observatory
Box 28, Folder 6	QB Observatories -- Mt. Wilson
Box 28, Folder 7	QB Observatories -- New Zealand
Box 28, Folder 8	QB Observatories -- Northwestern U. Lindheimer Astron. Research Center
Box 28, Folder 9	QB Observatories -- Mt. Hopkins, Ariz.
Box 28, Folder 10	QB Observatories -- Palomar [See also: QB Telescopes 200 in]
Box 28, Folder 11	QB Observatories -- Puerto Rico*

Box 28, Folder 12	QB Observatories -- Russia
Box 28, Folder 13	QB Observatories -- Sacramento Peak N.M.
Box 28, Folder 14	QB Observatories -- Solar*
Box 28, Folder 15	QB Observatories -- U.S. Naval
Box 28, Folder 16	QB Observatories -- Yerkes
Box 28, Folder 17	QB Observatory -- Airborne Solar
Box 28, Folder 18	QB Occultations
Box 28, Folder 19	QB Oxygen or OH Absorption <sup>1</sup> Spectra*
Box 29, Folder 1	QB Other Worlds
Box 29, Folder 2	QB Photographs -- Astronomical
Box 29, Folder 3	QB Photography -- Astronomical
Box 29, Folder 4	QB Photography -- Astronomical. Harvard Collection of Photographs
Box 29, Folder 5	QB Photography -- Astronomical -- Schmidt Camera
Box 29, Folder 6	QB Photography -- Astronomical -- Use of Photo-Electric Cell
Box 29, Folder 7	QB Photography -- Electronics Star Pictures
Box 29, Folder 8	QB Photometry
Box 29, Folder 9	QB Planet "Y" [See also: QB Vulcan]
Box 29, Folder 10-11	QB Planetariums
Box 29, Folder 12	QB Planetarium -- Electronic
Box 29, Folder 13	QB Planetarium -- Washington, D.C.
Box 30, Folder 1	QB Planetarium -- Zeiss Planetarium*
Box 30, Folder 2	QB Planetariums -- Buhl, Pittsburgh
Box 30, Folder 3	QB Planetariums -- Hayden
Box 30, Folder 4	QB Planetariums -- Intermediate Space Transit (MSU)

Box 30, Folder 5	QB Planetariums -- Minolta Planetarium
Box 30, Folder 6	QB Planetariums -- Spitz and Zeiss (EW's selection, 2/18/59)
Box 30, Folder 7	QB Planetary Atmospheres
Box 30, Folder 8-9	QB Planets
Box 31, Folder 1	QB Planets -- Atmospheres
Box 31, Folder 2	QB Planets, Formation of*
Box 31, Folder 3	QB Planets -- Life on Other
Box 31, Folder 4	QB Planets -- Life on - 1960/61/62
Box 31, Folder 5	QB Planets -- Meteorology
Box 31, Folder 6	QB Planets, Minor [See also: QB Asteroids]
Box 31, Folder 7	QB Planets, Minor -- "Anteros"
Box 31, Folder 8	QB Planets, Minor -- Betulia
Box 31, Folder 9	QB Planets, Minor -- Eros
Box 31, Folder 10	QB Planets, Minor -- Hermes
Box 31, Folder 11	QB Planets, Minor -- Icarus*
Box 31, Folder 12	QB Planets -- Radio-Radar Observation
Box 31, Folder 13	QB Planets -- Satellites*
Box 31, Folder 14	QB Planets -- Surface Analysis
Box 31, Folder 15	QB Planets -- Terrestrial
Box 31, Folder 16	QB Planets, Theory of
Box 32, Folder 1	QB Planets -- Uranus
Box 32, Folder 2	QB Planispheres
Box 32, Folder 3	QB Planetary Nebulae
Box 32, Folder 4	QB Pleiades



Box 32, Folder 5	QB Pluto
Box 32, Folder 6	QB Pluto -- Transneptunian Planet, Lowell Observatory, 1930 April 13
Box 32, Folder 7	QB Precession
Box 32, Folder 8	QB Primordial Fireball
Box 32, Folder 9	QB Prisms
Box 32, Folder 10	QB Pulsars
Box 32, Folder 11	QB Quasar 3C-287
Box 32, Folder 12	QB Quasars [-1963-1965] [See also: QB Galaxies -- Explosions; see also: Neutron Stars (QB) & Gravitational Collapse]
Box 33, Folder 1	QB Quasars -- 1966/67 [See also: QB Neutron Stars; QB Galaxies -- Gravitational collapse]
Box 33, Folder 2	QB Quasi-Stellar Radio Sources*
Box 33, Folder 3	QB Quasars -- X-Rays [See also: QB Astronomy -- X-Rays]
Box 33, Folder 4	QB Quasi-Stellar Objects*
Box 33, Folder 5	QB Radar Astronomy -- Bistatic
Box 33, Folder 6	QB Radar Observatory
Box 33, Folder 7	QB Radio Observatory -- NEROC Northeast Radio Observatory Corp.
Box 33, Folder 8	QB Radar Telescopes -- Lincoln Laboratory (28-foot diameter) [See also: TL Space Research -- Lincoln Lab]
Box 33, Folder 9	QB Radio Astronomy -- 1930-1956
Box 33, Folder 10	QB Radio Astronomy ['57-'59]
Box 33, Folder 11	QB Radio Astronomy -- 1960-61-62 [-63]
Box 34, Folder 1	QB Radio Astronomy 1965 [-66]
Box 34, Folder 2	QB Radio Astronomy -- 1967/68
Box 34, Folder 3	QB Radio Astronomy -- Russia
Box 34, Folder 4	QB Radio & Radar Telescope -- 440-Foot Lincoln Lab. [(Haystack)]

Box 34, Folder 5	QB Radio Sources [See also: QB X-Ray Astronomy & QB Crab Nebula]
Box 34, Folder 6	QB Radio Stars [See also: Flare Stars]
Box 34, Folder 7	QB Radio Telescopes
Box 34, Folder 8	QB Radio Telescopes -- Puerto Rico [Arecibo]
Box 34, Folder 9	QB Radio Telescopes -- Australia
Box 35, Folder 1	QB Radio Telescopes -- CAMROC [Radio-Radar]
Box 35, Folder 2	QB Radio Telescopes -- Canada*
Box 35, Folder 3	QB Radio Telescopes -- Clark Lake, Calif. (Erickson) 800 feet wide
Box 35, Folder 4	QB Radio Telescopes -- France
Box 35, Folder 5	QB Radio Telescopes -- German 330-foot
Box 35, Folder 6	QB Radio Telescopes -- Green Bank, W. Va. [National Radio Astronomy Observatory 140-foot & 85-foot] [See also: QB -- Radio Telescopes -- Project Ozma]
Box 35, Folder 7	QB Radio Telescopes -- Harvard [George R. Agassiz Radio Tel. 60-foot]
Box 35, Folder 8	QB Radio Telescopes -- Hat Creek, Calif. 85-foot, Univ. of Calif.
Box 35, Folder 9	QB Radio Telescopes -- Jodrell 400-foot
Box 35, Folder 10	QB Radio Telescopes -- Jodrell Bank [250-foot]
Box 35, Folder 11	QB Radio Telescopes -- NEROC*
Box 35, Folder 12	QB Radio Telescopes -- Netherlands
Box 35, Folder 13	QB Radio Telescopes -- Kitt Peak National Observatory*
Box 35, Folder 14	QB Radio Telescopes -- Naval Research Laboratory (NRL)*
Box 35, Folder 15	QB Radio Telescopes -- Ohio State Univ. [170-foot]
Box 35, Folder 16	QB Radio Telescopes -- Owens Valley [Calif.] CalTech 90-foot
Box 35, Folder 17	QB Radio Telescopes -- Peach Mountain Univ. of Mich. 85-foot
Box 35, Folder 18	QB Radio Telescopes -- Penn State 30-foot

Box 35, Folder 19	QB Radio Telescopes -- Project Ozma [National Radio Astronomy Observatory]
Box 35, Folder 20	QB Radio Telescopes -- Russia
Box 35, Folder 21	QB Radio Telescopes -- Stanford 375-foot [150 ft]
Box 35, Folder 22	QB Radio Telescopes -- Sugar Grove [W.Va. Radio Research Observatory 600-foot (?)]
Box 35, Folder 23	QB Radio Telescopes -- Sweden (Råö)
Box 35, Folder 24	QB Radio Telescopes -- Univ. of Ill. 600 feet long
Box 35, Folder 25	QB Radio Telescopes -- U.S. -- U.S.S.R.
Box 35, Folder 26	QB Radio Telescopes -- VLA (Very Large Array)
Box 35, Folder 27	QB Radiotelescopes -- Yale (Bethany Observatory)
Box 35, Folder 28	QB Radio Waves [See also: TK -- Radio Signals]
Box 35, Folder 29	QB Red Shift
Box 35, Folder 30	QB Reinmuth Object 1932HA
Box 35, Folder 31	QB Saturn [& its Rings]
Box 36, Folder 1	QB Saturn -- Satellites
Box 36, Folder 2	QB Saturn -- White Spot, August 5, 1933
Box 36, Folder 3	QB Sky Atlas
Box 36, Folder 4	QB Sky Color
Box 36, Folder 5	QB [Sky,] Southern
Box 36, Folder 6	QB Solar Corona [See also: QB -- Radio Sources]
Box 36, Folder 7	QB Solar Cosmic Rays [Solar Protons] [See also: QC -- Cosmic Rays]
Box 36, Folder 8	QB Solar Cycles
Box 36, Folder 9	QB Solar Flares [1957-63]
Box 36, Folder 10	QB Solar Flares -- 1964/66/68 [See also: TL -- Space -- Travel Hazards -- Solar Flares]

Box 36, Folder 11	QB Solar Physics
Box 36, Folder 12	QB Solar Prominences
Box 36, Folder 13	QB Solar Radio Emissions
Box 37, Folder 1	QB Solar System
Box 37, Folder 2	QB Solar System [1964-]
Box 37, Folder 3	QB Solar System, Origin of [- See Earth, Origin of] [See also QB -- Universe, Origin]
Box 37, Folder 4	QB Solar Winds
Box 37, Folder 5	QB Space [See TL Aero Space Law]
Box 37, Folder 6	QB Spectroheliograph
Box 37, Folder 7	Abbot, Charles G.
Box 37, Folder 8	Biography. File Coles, Robert R.
Box 37, Folder 9	Biography File De Carle, Donald
Box 37, Folder 10	Biography File Curley, Fr. James
Box 37, Folder 11	Chretien, Henri*
Box 37, Folder 12	Biography. File Einstein, Albert
Box 37, Folder 13	Biography File Payne-Gaposchkin Cecelia (folder empty, June 12, 2008)
Box 37, Folder 14	Biography File Gant, James Q.*
Box 38, Folder 1	Biography File Adams, Walter
Box 38, Folder 2	Biography File Cameron, Robert C.
Box 38, Folder 3	Biography File Heyden, Francis J.*
Box 38, Folder 4	QB Spectroscopy
Box 38, Folder 5	QB Spring
Box 38, Folder 6	QB Star Maps*
Box 38, Folder 7	QB Star Catalogs

Box 38, Folder 8	QB Star Clusters*
Box 38, Folder 9	QB Star of Bethlehem
Box 38, Folder 10	QB Barnard's Star*
Box 38, Folder 11	QB Stars
Box 38, Folder 12	QB Stars 1950
Box 38, Folder 13	QB Stars [1960-63]
Box 38, Folder 14	QB Stars -- 1964-65-
Box 39, Folder 1	QB Stars -- Atmospheres
Box 39, Folder 2	QB Stars -- Binary -- 1960-
Box 39, Folder 3	QB Stars -- Blue*
Box 39, Folder 4	QB Stars -- Clusters
Box 39, Folder 5	QB Stars -- Constitution
Box 39, Folder 6	QB Stars -- Distances
Box 39, Folder 7	QB Stars -- Dimensions
Box 39, Folder 8	QB Stars -- Double
Box 39, Folder 9	QB Stars -- Energy Source
Box 39, Folder 10	QB Stars - Evolution
Box 39, Folder 11	QB Stars -- Flare Stars
Box 39, Folder 12	QB Stars -- Magnitudes
Box 39, Folder 13	QB Stars -- Measurements
Box 39, Folder 14	QB Stars -- Motion
Box 39, Folder 15	QB Stars -- Nuclear Reactions in
Box 39, Folder 16	QB Stars -- Origin of [See also: QB -- Stars -- Proto Stars]
Box 39, Folder 17	QB Stars -- Photography near Sun

Box 39, Folder 18	QB Stars -- Pygmy
Box 39, Folder 19	QB Stars -- Polarized Light
Box 39, Folder 20	QB Stars -- Planets of [Near Stars] [Alpha Centauri, Barnard's Star]
Box 39, Folder 21	QB Stars -- R-Monocerotis [Protostar, Infrared] [See also: QB -- Astronomy -- Infrared]
Box 40, Folder 1	QB Stars -- Red [Giants]
Box 40, Folder 2	QB Stars -- Shooting
Box 40, Folder 3	QB Stars - Spectra
Box 40, Folder 4	QB Stars -- Structure*
Box 40, Folder 5	QB Stars -- Starlight*
Box 40, Folder 6	QB Stars -- Supergiant
Box 40, Folder 7	QB [Stars] Stellar Systems
Box 40, Folder 8	QB Stars -- Temperatures
Box 40, Folder 9	QB Stars -- Twinkling
Box 40, Folder 10	QB Stars -- White Dwarf
Box 40, Folder 11	QB Stars -- Young
Box 40, Folder 12	QB Stars -- X-Ray Spectra*
Box 40, Folder 13	QB Stars -- X-Ray Stars*
Box 40, Folder 14	QB Stars -- Zeta Aurigae
Box 40, Folder 15	QB Stellar Atmospheres
Box 40, Folder 16	QB Stellar Winds
Box 40, Folder 17	QB Sun
Box 40, Folder 18	QB Sun [1959-'60-'61-'62]
Box 40, Folder 19	QB Sun -- 1965
Box 41, Folder 1	QB Sun -- Atmosphere

Box 41, Folder 2	QB Sun -- Evolution*
Box 41, Folder 3	QB Sun -- Energy
Box 41, Folder 4	QB Sun -- Energy (Bethe)
Box 41, Folder 5	QB Sun -- Magnetic Field
Box 41, Folder 6	QB Sun -- Noises
Box 41, Folder 7	QB Sun -- Radiation
Box 41, Folder 8	QB Sun -- Satellite Observations [OSO]
Box 41, Folder 9	QB Sun -- Solar Constant
Box 41, Folder 10	QB Sun -- Spectrum
Box 41, Folder 11	QB Sun -- Spectrum. Lyman Alpha Hydrogen Line
Box 41, Folder 12	QB Sun -- Temperature
Box 41, Folder 13	QB Sundials
Box 41, Folder 14	QB Sunspots
Box 42, Folder 1	QB Sunspots -- 1950-1958
Box 42, Folder 2	QB Sunspots 1959- [1960-1961-1962-1963]
Box 42, Folder 3	QB Sunspots -- Cycle
Box 42, Folder 4	QB Superfluids
Box 42, Folder 5	QB Sypernovae [See also QB - Novae]
Box 42, Folder 6	QB Supernovae -- 1960-1963 -- [65-66]
Box 42, Folder 7	QB Tektites
Box 43, Folder 1	QB Tektites [1960-'61]
Box 43, Folder 2	QB Telescopes [old]
Box 43, Folder 3	QB Telescopes [old]
Box 43, Folder 4	QB Telescopes -- 1960-61-62 [-68]

Box 43, Folder 5	QB Telescope, Electronic
Box 43, Folder 6	QB Telescope -- Stamford Museum
Box 43, Folder 7	QB Telescopes -- Chile (Brit. -- Australian) [Cerro-Tololo]
Box 43, Folder 8	QB Telescopes -- Color Photography
Box 43, Folder 9	QB Telescopes -- Flagstaff, Ariz. (U.S. Naval Observatory) [61-inch Astrometric]
Box 43, Folder 10	QB Telescopes -- Hawaii -- 84-inch
Box 43, Folder 11	QB Telescopes -- History
Box 44, Folder 1	QB Telescopes -- Image Converters [See also: TR -- Camera -- Image Converter; QC -- Image Amplifier]
Box 44, Folder 2	QB Telescopes -- Isaac Newton 98-inch
Box 44, Folder 3	QB Telescopes -- Kitt Peak Solar (Aura)
Box 44, Folder 4	QB Telescopes -- McDonald Observatory
Box 44, Folder 5	QB Telescopes -- Mayall Telescope 158-inch, Kitt's Peak*
Box 44, Folder 6	QB Telescopes -- Mirrors
Box 44, Folder 7	QB Telescopes -- Mirrors -- Aluminum
Box 44, Folder 8	QB Telescopes -- Moon
Box 44, Folder 9	QB Telescopes -- Mt. Palomar 200-inch [1950-68-] [See also earlier folders QB -- Telescopes -- 200-inch]
Box 44, Folder 10	QB Telescopes -- Mountings
Box 44, Folder 11	QB Telescopes -- Mt. Hopkins 60-inch (Smithsonian Astrophysical Observatory)*
Box 44, Folder 12	QB Telescopes -- 120-inch (Lick)
Box 44, Folder 13	QB Telescopes -- Photoelectric Cell
Box 44, Folder 14	QB Telescopes -- Queen Elizabeth II, British Columbia [Mt. Kobau, Canada]
Box 44, Folder 15	QB Telescopes -- Russia



Box 44, Folder 16	QB Telescopes -- Seeing (Atmospheric Blurring)*
Box 44, Folder 17	QB Telescopes -- Solar Telescopes*
Box 44, Folder 18	QB Telescopes -- Solar -- Domeless Zeiss
Box 44, Folder 19	QB Telescopes, Solar -- SPAN (Solar Particles Alert Network)
Box 44, Folder 20	QB Telescopes, Solar -- Sacramento Peak (AFCRL)
Box 44, Folder 21	QB Telescopes -- Solar Vacuum Tower, Sac Peak Observatory
Box 44, Folder 22	QB Telescopes -- 200 Inch
Box 44, Folder 23	QB Tides, Solar
Box 45, Folder 1	QB Time
Box 45, Folder 2	QB Time - Daylight Saving
Box 45, Folder 3	QB Ultracentrifuge
Box 45, Folder 4	QB Universe 1929-57
Box 45, Folder 5	QB Universe [1958-59-60-61-65]
Box 45, Folder 6	QB Universe -- Age
Box 45, Folder 7	QB Universe -- Composition of
Box 45, Folder 8	QB Universe, Destruction of
Box 45, Folder 9	QB Universe -- Expansion [1931-36]
Box 45, Folder 10	QB Universe -- Expansion 1933-34
Box 45, Folder 11	QB Universe -- Expanding [-1950-65]
Box 46, Folder 1	QB Universe -- Origin & Evolution
Box 46, Folder 2	QB Universe -- Origin & Evolution [-1960-]
Box 46, Folder 3	QB Uranus
Box 46, Folder 4	QB Variable Stars
Box 46, Folder 5	QB Venus 1960-61-62 [-63-]

Box 46, Folder 6	QB Venus 1963-65 [-66-68]
Box 47, Folder 1	QB Venus -- Atmosphere
Box 47, Folder 2	QB Venus -- Radar Contacts
Box 47, Folder 3	QB Venus -- Surface
Box 47, Folder 4	QB Vulcan
Box 47, Folder 5	QB Winter Solstice
Box 47, Folder 6	QB Worlds in Collision (Dr. Velikovsky)
Box 47, Folder 7	QB X-Ray Stars
Box 47, Folder 8	QB Zodiacal Light
Box 47, Folder 9	QC Acoustics
Box 47, Folder 10	QC Acoustics -- Auditoria
Box 47, Folder 11	QC Altitudes
Box 47, Folder 12	QC Antigravity
Box 48, Folder 1	QC Atomic Bomb -- Hiroshima
Box 48, Folder 2	QC IGY -- Soviet Block Information
Box 48, Folder 3	QD Alchemy
Box 48, Folder 4	QL Birds -- Flight
Box 48, Folder 5	TJ Engines - Turbojet
Box 48, Folder 6	TJ Engines -- Turbo-Prop
Box 48, Folder 7	TJ Gas Turbines -- 1964/66
Box 48, Folder 8	TJ Gas Turbines -- 1966/67/68/69/70
Box 48, Folder 9	TJ Lubrication
Box 48, Folder 10	TJ Lubricants -- [Extreme] Temperature
Box 49, Folder 1	TL Apollo -- ALSEP (Lunar Surface Experiments Package)

Box 49, Folder 2	Apollo Fire 1967
Box 49, Folder 3	TL Apollo Fireproofing
Box 49, Folder 4	TL Apollo Landing
Box 49, Folder 5	TL Apollo Program 1967/68
Box 49, Folder 6	TL Apollo Scientific Program
Box 49, Folder 7	TL Apollo Spending
Box 49, Folder 8	TL Astronauts -- Fatalities
Box 49, Folder 9	TL Astronauts [Skylab '71-73]
Box 49, Folder 10	TL Astronauts -- Work in Space
Box 49, Folder 11	TL Beacon Explorer-C (BE-C) (Geodetic)
Box 50, Folder 1	TL Aero -- Flying Saucers -- 1960- [65-66] [See also TL -- UFO Investigation '66]
Box 50, Folder 2	TL Aero -- Flying Saucers -- Refuting Explanations) (See also: TL -- UFO -- Investigation '66]
Box 50, Folder 3	TL Aero -- Flying Saucer Projects
Box 50, Folder 4	TL Aero. -- Flying Platform
Box 50, Folder 5	TL Guided Missiles -- 1957/69
Box 50, Folder 6	TL Guided Missiles -- AEGIS
Box 50, Folder 7	TL Aero -- Guided Missiles -- ALBM Air-Launched Ballistic Missile
Box 50, Folder 8	TL Guided Missiles -- Anti-Tank Shillelagh, MAW, TOW [MAW/LAW]
Box 50, Folder 9	TL Guided Missiles -- Army, Navy, Air Force
Box 50, Folder 10	TL Guided Missiles -- Athena
Box 50, Folder 11	TL Guided Missiles -- Atomic [See also: TL -- Aero -- Rockets -- Atomic]
Box 50, Folder 12	TL Guided Missiles -- British
Box 50, Folder 13	TL Aero -- Guided Missiles -- Cargo

Box 50, Folder 14	TL Guided Missiles -- Control
Box 50, Folder 15	TL Guided Missiles -- Decoy -- "Quail"
Box 50, Folder 16	TL Guided Missiles [Defense] -- ABM -- 1968.[/69]
Box 50, Folder 17	TL Guided Missiles Defense -- ABM (Anti-missile missile) [1967]
Box 51, Folder 1	TL Guided Missiles Defense -- ABM Anti-Ballistic Missile 1962-
Box 51, Folder 2	TL Guided Missiles Defense -- ABM Safeguard [1969/70]
Box 51, Folder 3	TL Guided Missiles Defense
Box 51, Folder 4	TL Guided Missiles Defense -- ABM -- Sentinel
Box 51, Folder 5	TL Aero -- Guided Missiles -- Defense -- BOMARC [See also: Guided Missiles -- Defense -- BOMARC; Guided Missiles -- Defense -- Nike]
Box 51, Folder 6	TL Guided Missiles Defense -- Chaparral
Box 51, Folder 7	TL Guided Missile Defense -- "Headbone"
Box 51, Folder 8	TL Aero -- Guided Missiles -- Defense -- Nike
Box 51, Folder 9	TL Guided Missiles Defense -- SAM-D
Box 51, Folder 10	TL Guided Missiles Defense -- X-Rays
Box 51, Folder 11	TL Guided Missiles -- Electromagnetic Defense
Box 51, Folder 12	TL Aero -- Guided Missiles -- Foreign (Temp.)
Box 51, Folder 13	TL Guided Missiles -- HiBEX [Hawk, Lacrosse, Lance] Silo launchings
Box 51, Folder 14	TL Guided Missiles -- ICBM
Box 51, Folder 15	TL Guided Missiles -- ICBM -- Atlas
Box 51, Folder 16	TL Aero -- Guided Missiles [ICBM] -- Minuteman
Box 51, Folder 17	TL Aero -- Guided Missiles -- ICBM -- Titan [1960]
Box 52, Folder 1	TL Aero -- Guided Missiles -- IRBM -- Jupiter, Thor [Polaris]
Box 52, Folder 2	TL Aero -- Guided Missiles -- Impact Locating

Box 52, Folder 3	TL Aero -- Guided Missiles -- Inertial Guidance [See also: TL -- Space Navigation; TL -- Space -- Inertial Guidance]
Box 52, Folder 4	TL Guided Missiles -- Launching Bases
Box 52, Folder 5	TL Guided Missiles -- MIRV -- Multiple hydrogen warheads
Box 52, Folder 6	TL Guided Missiles -- Missile Gap
Box 52, Folder 7	TL Guided Missiles -- Phoenix
Box 52, Folder 8	TL Guided Missiles -- MMRBM [Stellar Inertial Guidance]
Box 52, Folder 9	TL Guided Missiles -- Pershing
Box 52, Folder 10	TL Aero -- Guided Missiles -- Polaris [Solid fuel; Operation Skycatch] [See also: VM -- Submarines -- Polaris]
Box 52, Folder 11	TL Guided Missiles -- Polaris -- 1963[70]
Box 52, Folder 12	TL Guided Missiles -- Poseidon
Box 52, Folder 13	TL Guided Missiles -- Redeye
Box 52, Folder 14	TL Aero -- Guided Missiles -- Regulus
Box 52, Folder 15	TL Guided Missiles -- Reliability
Box 52, Folder 16	TL Guided Missiles -- Russia
Box 52, Folder 17	TL Guided Missiles -- Skybolt
Box 52, Folder 18	TL Aero -- Guided Missiles -- [ Solid Fuel] [See also: Polaris, Minuteman; See also: Rockets -- Solid Fuel]
Box 52, Folder 19	TL Guided Missiles -- Sparrow
Box 52, Folder 20	TL Guided Missiles -- Sparta Re-Entry
Box 52, Folder 21	TL Guided Missiles -- Sprint
Box 52, Folder 22	TL Guided Milles -- SRAM Short-range-attack
Box 52, Folder 23	TL Guided Missiles -- Talos
Box 52, Folder 24	TL Aero -- Guided Missiles -- Testing
Box 52, Folder 25	TL Aero -- Guided Missiles -- Thermonuclear

Box 52, Folder 26	TL Aero -- Guided Missiles -- Tracking
Box 53, Folder 1	TL Moon -- Lunar Satellite -- X-Rays
Box 53, Folder 2	TL Moon Landing -- Gemini -- 1966
Box 53, Folder 3	TL Moon Rocks Apollo 16
Box 53, Folder 4	TL Moon Vehicles -- FLEEP [Flying Lunar Excursion Experimental Platform]
Box 53, Folder 5	TL Orbiting Telescopes
Box 53, Folder 6	TL Orbiting Telescopes -- Manned -- MOT
Box 53, Folder 7	TL Aero -- Rockets -- Aerobee-Hi
Box 53, Folder 8	TL Aero -- Rockets, Atomic [See separate folders (Kiwi-A, Rover, Pluto) [See also: TL - Aero -- Guided Missiles, Atomic; TL -- Aero -- Space Propulsion, Nuclear]
Box 53, Folder 9	TL Rockets, Atomic -- Kiwi-A & Kiwi-B
Box 53, Folder 10	TL Rockets, Atomic -- Pluto
Box 53, Folder 11	TL Rockets, Atomic -- Rover
Box 53, Folder 12	TL Aero -- Rockets -- British [See also: TL -- Space Rockets -- Blue Streak
Box 53, Folder 13	TL Rockets -- Christmas (S.F. Singer)
Box 53, Folder 14	TL Rockets -- Foreign
Box 53, Folder 15	TL Rockets -- Ions & Photons
Box 53, Folder 16	TL Rockets -- Launchings
Box 54, Folder 1	TL Aero -- Rocket Sled
Box 54, Folder 2	TL Aero -- Rockets -- Solid Propellant [See also: TL -- Space Rocket Scout; TL -- Guided Missiles -- ICBM Polaris, Minuteman, Pershing]
Box 54, Folder 3	TL Aero -- Rockets -- Stratospheric
Box 54, Folder 4	TL Rockets -- Transport -- Ithacus, ICBT, Rombus
Box 54, Folder 5	TL Aero -- Satellites, Artificial 1957
Box 54, Folder 6	TL Aero -- Satellites, Artificial 1958 [See also: TL -- Aero -- Space Weapons]

Box 54, Folder 7	TL Aero -- Satellites, Artificial 1959
Box 54, Folder 8	TL Aero -- Satellites, Artificial 1960
Box 54, Folder 9	TL Aero -- Satellites, Artificial 1962 (Various, general, etc.)
Box 54, Folder 10	TL Satellites, Artificial -- Advanced Technological Satellite (ATS) [See also: TL -- Satellites, Artificial -- Applications Technology Satellite]
Box 54, Folder 11	TL Satellites, Artificial -- Advent
Box 54, Folder 12	TL Satellites, Artificial -- Aeros
Box 54, Folder 13	TL Satellites, Artificial -- AIMP (Anchored Interplanetary Monitoring Platform) [Explorer 33 -- July 1, 1966 (failed)] [IMP-II see Explorer 21] [See also: TL -- Satellites, Artificial -- Comsat, Defense Dept]
Box 54, Folder 14	TL Air Density -- Injun Explorer-B 11/21/64
Box 54, Folder 15	TL Air Density -- Injun Explorer C
Box 54, Folder 16	TL Satellites, Artificial -- Anna (Geographic mapping) [See also: TL -- Satellites, Artificial -- Samos "Secret"]
Box 55, Folder 1	TL Satellites, Artificial -- AOSO -- Advanced Orbiting Solar Observatory
Box 55, Folder 2	TL Satellites, Artificial -- APT System
Box 55, Folder 3	TL Satellites, Artificial -- S-51 [UK-1] [S-52 UK] (International Ionosphere Satellite) [4/26/62] [See also: TL - Satellites, Artificial -- UK-3]
Box 55, Folder 4	TL Aero -- Satellites, Artificial -- Atlas-Score [1958 Zeta Dec. 19, '58]
Box 55, Folder 5	TL Satellites, Artificial -- Atmosphere Explorer AE-B
Box 55, Folder 6	TL Satellites, Artificial -- Atmosphere Explorers C and D
Box 55, Folder 7	TL Satellites, Artificial -- Australian -- Wresat
Box 55, Folder 8	TL Satellite [Balloon ]-- Echo I[Aug 12/60] [See also: Satellite Balloon -- Echo II 1/15/62]
Box 55, Folder 9	TL Satellite Balloon -- Echo II (135 foot) [June 15, '62 (fails), July 18, '62, Jan 25, '64]
Box 55, Folder 10	TL Satellites, Artificial -- Biosatellite [I]
Box 55, Folder 11	TL Satellites, Artificial -- Biosatellite 2 9/7/67

Box 55, Folder 12	TL Satellites, Artificial -- Biosatellite D [3] Primate-Carrying [6/28/69-7/6/69 Bonnie]
Box 56, Folder 1	TL Satellites, Artificial -- Black Arrow X-3
Box 56, Folder 2	TL Satellites, Communication -- Canadian Domestic Satellite [also TELESAT]
Box 56, Folder 3	TL Satellites, Artificial -- Cannon Ball 2
Box 56, Folder 4	TL Satellites, Artificial -- China
Box 56, Folder 5	TL Aero -- Satellites, Artificial -- Communications -- Bell Telephone System
Box 56, Folder 6	TL Aero -- Satellites, Artificial -- Communication
Box 56, Folder 7	TL Satellites, Artificial -- Communications -- 1962
Box 56, Folder 8	TL Satellites, Artificial -- Communications -- 1963 [/66]
Box 56, Folder 9	TL Satellites, Artificial -- Communications Satellite Corporation [-1962]
Box 56, Folder 10	TL Satellites, Artificial -- Communications Satellite Corporation 1963[/64] [COMSAT] [See also: Sat Art -- COMSAT -- Stock Sale]
Box 57, Folder 1	TL Satellites, Artificial -- Communications -- Early Bird [4/6/65 (COMSAT)]
Box 57, Folder 2	TL Satellites, Artificial -- Communications -- European
Box 57, Folder 3	TL Satellites, Artificial -- Communication -- Global [TV]
Box 57, Folder 4	TL Satellites, Artificial -- Communications -- Intersputnik
Box 57, Folder 5	TL Satellites, Artificial -- Communications -- LET LES
Box 57, Folder 6	TL Satellites, Artificial -- Communications -- Radio
Box 57, Folder 7	TL Satellites, Artificial -- Communications -- South America [(IDB)]
Box 57, Folder 8	TL Satellites, Artificial -- Communications & Weather -- 1963
Box 57, Folder 9	TL Satellites, Artificial -- Communications Systems -- 1966
Box 57, Folder 10	TL Satellites, Artificial -- Communication -- 1967/68/
Box 57, Folder 11	TL Satellites, Artificial -- Communications -- "Medium Altitude Communication Satellite System" [-MACS] [-1963]
Box 57, Folder 12	TL Satellites, Artificial -- Communications -- Relay II '64



Box 57, Folder 13	TL Satellites, Artificial -- Communications -- COMSAT -- 1965-[66] [See also: TL -- Sat. Communic. -- Early Bird]
Box 58, Folder 1	TL Satellites, Artificial -- Communications -- Comsat 1968/69
Box 58, Folder 2	TL Satellites, Artificial -- Comsat/AT&T
Box 58, Folder 3	TL Satellites, Artificial -- Comsat -- INTELSAT II [10/26/66-10/28/67 Lani Bird, Switchboard, Pacific II]
Box 58, Folder 4	TL Satellites, Artificial -- Comsat -- Multi-Purpose Synchronous Satellite
Box 58, Folder 5	TL Satellites -- Communications -- INTELSAT III
Box 58, Folder 6	TL Satellites, Artificial -- Communications -- INTELSAT 4 Multipurpose
Box 58, Folder 7	TL Satellites, Artificial -- Communications -- Foreign
Box 58, Folder 8	TL Satellites, Artificial -- Communications -- Intelsat -- Pacific 3
Box 58, Folder 9	TL Satellites, Artificial -- Communications -- Intelsat Conference '69
Box 58, Folder 10	TL Satellites, Artificial -- Communications -- Military -- SATCOM [TACSAT] [See also: TL -- Sat. Communic. -- SATCOM Defense Dept]
Box 58, Folder 11	TL Satellites, Artificial -- Communications -- Syncom 2
Box 58, Folder 12	TL Satellites, Artificial -- Communications -- Syncom 3 [Aug 19, 64 Syncom C (TAD)]
Box 59, Folder 1	TL Satellites, Artificial -- Communications -- TACCOMSAT Tactical Communications Satellite
Box 59, Folder 2	TL Satellites, Artificial -- Communications -- Comsat -- Earth Stations
Box 59, Folder 3	TL Satellites, Artificial -- Communications -- Comsat -- Stock Sale [1963-64]
Box 59, Folder 4	TL Satellites, Artificial -- Courier
Box 59, Folder 5	TL Satellites, Artificial -- Data Transmission
Box 59, Folder 6	TL Satellites, Artificial -- Detection [Anti-Satellite Intercept Project "Saint"]
Box 59, Folder 7	TL Satellites, Artificial -- Developing Countries (India)
Box 59, Folder 8	TL Aero - Satellites, Artificial -- Air Force Project Discoverer [I] [Mar 1, 59 1959 Beta]
Box 59, Folder 9	TL Aero -- Satellites, Artificial -- [Air Force] Discoverer II [April 14, 59]

Box 59, Folder 10	TL Aero -- Satellites, Artificial -- [Air Force] Discoverer III [(6/3/59) (4 Mice)]
Box 59, Folder 11	TL Aero -- Satellites, Artificial -- Discoverer IV (6/29/59)
Box 59, Folder 12	TL Aero -- Satellites, Artificial -- Discoverer V [(Aug 13, 59)]
Box 59, Folder 13	TL Aero -- Satellites, Artificial -- Discoverer VI (Aug. 20, 1959) [- Oct 20, 59]
Box 59, Folder 14	TL Aero -- Satellites, Artificial -- Discoverer VII (11/7/59) Capsule Failure
Box 59, Folder 15	TL Aero -- Satellites, Artificial -- Discoverer VIII [[See Summary]
Box 59, Folder 16	TL Aero -- Satellites, Artificial -- Discoverer IX 2/4/[60] [Failure XI]
Box 59, Folder 17	TL Satellites, Artificial -- Discoverer XIII 8/10/60
Box 59, Folder 18	TL Satellites, Artificial -- Discoverer XIV [8/19/60 Capsule Recovered]
Box 59, Folder 19	TL Satellites, Artificial -- Discoverer XV 9/13/60 ([Capsule] not recovered)
Box 59, Folder 20	TL Satellites, Artificial -- Discoverer XVI
Box 59, Folder 21	TL Satellites, Artificial -- Discoverer XVII [Nov. 12, 60]
Box 59, Folder 22	TL Satellites, Artificial -- Discoverer XVIII
Box 59, Folder 23	TL Satellites, Artificial -- Discoverer XIX [XX, XXI, XXIII]
Box 59, Folder 24	TL Satellites, Artificial -- Discoverer XXV (6/16/61) [Discoverer XXVI (7/7/61) XXVII, 28 (failures), XXX, XXXI]
Box 59, Folder 25	TL Satellites, Artificial -- Discoverer No. 38 -- 1962
Box 59, Folder 26	TL Satellites, Artificial -- DODGE (Dept. of Defense Gravity Experiments)
Box 59, Folder 27	TL Satellites, Artificial -- Earth Resources Satellites
Box 59, Folder 28	TL Satellites, Artificial -- Communications -- Educational TV (Ford Foundation)
Box 59, Folder 29	TL Satellites, Artificial -- Communications -- Educational TV System
Box 59, Folder 30	TL Satellites, Artificial -- Equatorial Trajectories
Box 59, Folder 31	TL Satellites, Artificial -- EROS (Earth Resources Observation Satellites) U.S. Geological Survey
Box 60, Folder 1	TL Satellites, Artificial -- ERTS [I] Earth Resources Technology Satellite

Box 60, Folder 2	TL Satellites, Artificial -- ESRO I [,ESRO II] [See also: TL -- Space Intl. Coop. -- ESRO; TL -- Space -- France]
Box 60, Folder 3	TL Satellites, Artificial -- European Satellite Team (EST) [TD-1 & TD-2] [See also: Space -- Intl Coop. -- ELDO]
Box 60, Folder 4	TL Satellites, Artificial -- Explorer IX 2/16/61
Box 60, Folder 5	TL Satellites, Artificial -- Explorer X [P-14] [Mar. 25, 61]
Box 60, Folder 6	TL Satellites, Artificial -- Explorer XI [(S-15)] [4/27/61 Astronomical Space Observatory] [EW] [See also: TL -- Sat Astro. -- Telescope]
Box 60, Folder 7	TL Satellites, Artificial -- Explorer XVIII [Nov 26, 63 IMP-I (IMP)]
Box 60, Folder 8	TL Satellites, Artificial -- Explorer 16 12/16/62 Micrometeorite Satellite S-55B
Box 60, Folder 9	TL Satellites, Artificial -- Explorer [19] Air Density Explorer
Box 60, Folder 10	TL Satellites, Artificial -- Explorers -- Low Perigee
Box 60, Folder 11	TL Satellites, Artificial -- Explorer [Failure] -- Lunar [July 2, 1966]
Box 60, Folder 12	TL Satellites, Artificial -- Explorer I Jan 31, '58 [(1958 Alpha)] [For Explorer Nose Cone see also: TL Aero -- Guided Missiles -- Nose Cone; TL Aero -- Space Weapons [US]
Box 60, Folder 13	TL Satellites, Artificial -- Explorer II [(fizzled)] [US]
Box 60, Folder 14	TL Satellites, Artificial -- Explorer III [1958 Gamma Mar. 26, 58] [US]
Box 60, Folder 15	TL Satellites, Artificial -- Explorer IV [July 26, 58 -- Oct 22, 59 - 1958 Epsilon] [US]
Box 60, Folder 16	TL Satellites, Artificial -- Explorer V [(fizzled)] [US]
Box 60, Folder 17	TL Aero -- Explorer VI (Failure) 7/16/59
Box 60, Folder 18	TL Aero - Satellites, Artificial -- Explorer VI (Paddle Wheel) Aug. 7, 1959 [See earlier material in TL -- Aero Sat, Artif -- Paddle Wheel]
Box 60, Folder 19	TL Aero -- Satellites, Artificial -- [Explorer VI] [(Vega see TL -- Aero-Space (Venus Rocket - Vega)] [For confirmation see TL-Aero-Sat, Artif -- Explorer VI US]
Box 61, Folder 1	TL Aero - Satellites, Artificial -- Explorer VII (Oct. 13, 1959) [Juno II rocket]
Box 61, Folder 2	TL Satellites, Artificial -- Explorer VIII [11/3/60]

Box 61, Folder 3	TL Satellites, Artificial -- Ionosphere Explorer [I] "Topsi" [97-pound] [Explorer XX] [Fixed Frequency Topsy Side Sounder S-48] [NBS]
Box 61, Folder 4	TL Satellites, Artificial -- Explorer [21] (IMP II)
Box 61, Folder 5	TL Satellites, Artificial -- Explorer 22 [(S66)] Oct 9, 1964 [Formerly Beacon Explorer B] [LARGOS]
Box 61, Folder 6	TL Satellites, Artificial -- Explorer 29 11/6/65 Formerly GEOS I [For earlier material see: TL -- Sat. Artif. -- Mapping Geodetic GEOS 1]
Box 61, Folder 7	TL Satellites, Artificial -- Explorer 30 IQSY Solar Explorer 11/18/65
Box 61, Folder 8	TL Satellites, Artificial -- Explorer 32 5/25/66
Box 61, Folder 9	TL Satellites, Artificial -- Explorer XXXIV Solar watchdog for Surveyor 6 May 24, '67
Box 61, Folder 10	TL Satellites, Artificial -- Explorer 35 July 19, 1967 [Explorer 36, 37 (solar) Jan. 11, 68]
Box 61, Folder 11	TL Aero - Satellite, Artificial -- [1957-58] Failures (Vanguard) [US]
Box 61, Folder 12	TL Aero -- Satellites, Artificial -- Foreign (Except Russia)
Box 61, Folder 13	TL Satellites, Artificial -- France -- A-1 [11/26/65 83.7 Pound Diamond Rocket; 2/16/55 42 pound] [See also: TL -- Space- France]
Box 61, Folder 14	TL Satellites, Artificial -- French -- Fria 12/6/65 U.S. launched [(Ionosphere)]
Box 61, Folder 15	TL Satellites, Artificial -- Geodetic (Mapping) [- GEOS-1] [11/6/65 See: Explorer 29] [See also: TL - Satellites, Artificial -- Secor Mapping]
Box 61, Folder 16	Satellites, Artificial -- GEOS-B 1/11/68 [(Explorer 37)]
Box 61, Folder 17	TL Satellites, Artificial -- German-U.S.
Box 61, Folder 18	TL Satellites, Artificial -- GGTS (Gravity Gradient Test Satellite)
Box 61, Folder 19	TL Satellites, Artificial -- Gravity Gradient Stabilization
Box 61, Folder 20	TL Satellites, Artificial -- GRS-A - German Research Satellite
Box 61, Folder 21	TL Satellites, Artificial -- HEAO -- High-Energy Astronomy Observatory
Box 62, Folder 1	TL Satellites, Artificial -- HEOS (Highly Eccentric Orbit Satellite)
Box 62, Folder 2	TL Satellites, Artificial -- IMP-III or C

Box 62, Folder 3	TL Satellites, Artificial -- IMP -- D-G [, H (Explorer 47)] TL Satellites, Artificial -- Injun [I & III 6/29/61, 12/13/62 Iowa Van Allen Radiation exp.] [ See also: TL -- Air Density -- Injun-Explorer -- B '64] TL Satellites, Artificial -- Instruments TL Satellites, Artificial --International TL Satellites, Artificial -- Ionospheric -- ELF/VLF TL Ionosphere Probes -- General TL Satellites, Artificial -- [Ionosphere Probes] Alouette (Formerly S-27, Topside Sounder) [10/28/62 (Canadian -- U.S.)] [See also: TL -- Sat. Art. -- Ionosphere Probes -- Topside Sounder S-48] TL Satellites, Artificial -- Ionospheric -- Alouette 2 Nov. 28, 1965 Canadian TL Ionosphere Probe P--series [MIT P-14, P-21 Oct. 4, 60] TL Ionosphere Probes -- U.S./French VLF Electromagnetic Wave Propagation [CNET] TL Satellites, Artificial -- IQSY TL Satellites, Artificial -- ISIS [A] Canadian-U.S. Int'l Sat. for Ionospheric Studies TL Satellites, Artificial -- ISIS-X [Alouette 2, Explorer 31 Nov. 28, '65] [See also: TL -- Sat. Artif. -- Ionospheric -- Alouette 2] TL Satellites, Artificial -- IUE (International Ultraviolet Explorer) (1976) TL Satellites, Artificial -- Japan TL Satellites, Artificial -- LES-5, LES-6 -- Lincoln Experimental Satellite TL Satellites, Artificial -- LIDOS (Geodetic) -- Large Inclination Doppler Only Sat TL Satellites, Artificial -- Magnetic Fields TL Satellites, Artificial -- Meteoroid Detection ["MDSS", S-55C, Explorer 23] [See also: Pegasus, Explorer XVI] TL Satellites, Artificial -- Miscellaneous TL Satellites, Artificial -- MITROS ["MIT Tropical Observation Satellite"] TL Satellites, Artificial -- MOMS -- Multiple Orbit-Multiple Satellite TL Satellites, Artificial -- NABS -- Nuclear-Armed Bombardment TL Satellites, Artificial -- Navigation [See also: TL Sat. Art. -- Transit (series)] TL Satellites, Artificial -- Navy Navigation [See also: TL Sat. Art. -- Transit IV-A, IV B]
Box 62, Folder 3	TL Satellites, Artificial -- IMP -- D-G [, H (Explorer 47)]
Box 62, Folder 4	TL Satellites, Artificial -- Injun [I & III 6/29/61, 12/13/62 Iowa Van Allen Radiation exp.] [ See also: TL -- Air Density -- Injun-Explorer -- B '64]
Box 62, Folder 5	TL Satellites, Artificial -- Instruments
Box 62, Folder 6	TL Satellites, Artificial --International
Box 62, Folder 7	TL Satellites, Artificial -- Ionospheric -- ELF/VLF
Box 62, Folder 8	TL Ionosphere Probes -- General
Box 62, Folder 9	TL Satellites, Artificial -- [Ionosphere Probes] Alouette (Formerly S-27, Topside Sounder) [10/28/62 (Canadian -- U.S.)] [See also: TL -- Sat. Art. -- Ionosphere Probes -- Topside Sounder S-48]
Box 62, Folder 10	TL Satellites, Artificial -- Ionospheric -- Alouette 2 Nov. 28, 1965 Canadian
Box 62, Folder 11	TL Ionosphere Probe P--series [MIT P-14, P-21 Oct. 4, 60]
Box 62, Folder 12	TL Ionosphere Probes -- U.S./French VLF Electromagnetic Wave Propagation [CNET]
Box 62, Folder 13	TL Satellites, Artificial -- IQSY

Box 62, Folder 14	TL Satellites, Artificial -- ISIS [A] Canadian-U.S. Int'l Sat. for Ionospheric Studies
Box 62, Folder 15	TL Satellites, Artificial -- ISIS-X [Alouette 2, Explorer 31 Nov. 28, '65] [See also: TL -- Sat. Artif. -- Ionospheric -- Alouette 2]
Box 62, Folder 16	TL Satellites, Artificial -- IUE (International Ultraviolet Explorer) (1976)
Box 62, Folder 17	TL Satellites, Artificial -- Japan
Box 62, Folder 18	TL Satellites, Artificial -- LES-5, LES-6 -- Lincoln Experimental Satellite
Box 62, Folder 19	TL Satellites, Artificial -- LIDOS (Geodetic) -- Large Inclination Doppler Only Sat
Box 62, Folder 20	TL Satellites, Artificial -- Magnetic Fields
Box 62, Folder 21	TL Satellites, Artificial -- Meteoroid Detection ["MDSS", S-55C, Explorer 23] [See also: Pegasus, Explorer XVI]
Box 62, Folder 22	TL Satellites, Artificial -- Miscellaneous
Box 62, Folder 23	TL Satellites, Artificial -- MITROS ["MIT Tropical Observation Satellite"]
Box 62, Folder 24	TL Satellites, Artificial -- MOMS -- Multiple Orbit-Multiple Satellite
Box 62, Folder 25	TL Satellites, Artificial -- NABS -- Nuclear-Armed Bombardment
Box 62, Folder 26	TL Satellites, Artificial -- Navigation [See also: TL Sat. Art. -- Transit (series)]
Box 62, Folder 27	TL Satellites, Artificial -- Navy Navigation [See also: TL Sat. Art. -- Transit IV-A, IV B]
Box 63, Folder 1	TL Satellites, Artificial -- Nimbus C [Nimbus 2 5/15/66 912 pounds]
Box 63, Folder 2	TL Satellites, Artificial -- Nuclear Detection [NDS and ORS III]
Box 63, Folder 3	TL Satellites, Artificial -- OAO Orbiting Astronomical Observatory [See also: Sat. Art. -- Telescopes]
Box 63, Folder 4	TL Satellites, Artificial -- OAO-A1 '66 [Stargazer]
Box 63, Folder 5	TL Satellites, Artificial -- OAO-2 -- Telescope [(OAO-A2)]
Box 63, Folder 6	TL Satellites, Artificial -- OAO-II
Box 63, Folder 7	TL Satellites, Artificial -- OAO IV -- Copernicus also OAO III, Failure [8/21/72]
Box 63, Folder 8	TL Satellites, Artificial -- Observer [Earth resources, remote sensors]

Box 63, Folder 9	TL Satellites, Artificial -- OGO (Orbiting Geophysical Observatory)
Box 63, Folder 10	TL Satellites, Artificial -- OGO 2 (OGO C) Oct 15, 1965
Box 64, Folder 1	TL Satellites, Artificial -- OGO 3 (OGO B) (6/7/66)
Box 64, Folder 2	TL Satellites, Artificial -- OGO-F or OGO-6
Box 64, Folder 3	TL Aero - Satellites, Artificial -- Orbit
Box 64, Folder 4	TL Satellites, Artificial -- Orbiting Observatories - OAO, OGO, OSO [Helios, POGO]
Box 64, Folder 5	TL Satellites, Artificial -- ORBIS-CAL
Box 64, Folder 6	TL Satellites, Artificial -- Orbiting Observatories -- EGO
Box 64, Folder 7	TL Satellites, Artificial -- Orbiting Radiotelescope
Box 64, Folder 8	TL Satellites, Artificial -- OSO -- Orbiting Solar Observatory [and SR] [S-16] [See also: TL Sat., Art. -- Telescopes]
Box 64, Folder 9	TL Satellites, Artificial -- OSO-2 Feb.3, 1965 [OSO-3 3/8/68] [Oct. 18, 67 OSO-4]
Box 64, Folder 10	TL Satellites, Artificial -- Orb. [Solar] Observ. -- OSO 5 1/22/69
Box 64, Folder 11	TL Satellites, Artificial -- OSO-G OSO-6 [OSO-7]
Box 64, Folder 12	TL Satellites, Artificial -- OSCAR (Ham radio satellites) [OSCAR II]
Box 64, Folder 13	TL Satellites, Artificial -- OTS Optical Technology Sat.
Box 64, Folder 14	TL Satellites, Artificial -- [OVI] Aerospace Research Satellite
Box 65, Folder 1	TL Satellites, Artificial -- Owl Explorer [Auroras] Owl Explorer [Auroras]
Box 65, Folder 2	TL Satellites, Artificial -- PAGEOS Passive Geodetic Satellites
Box 65, Folder 3	TL Satellites, Artificial -- Passive Relativity Satellite
Box 65, Folder 4	TL Satellites, Artificial -- Pegasus [I] [Feb 16, 65] [Explorer 23]
Box 65, Folder 5	TL Satellites, Artificial -- Pegasus II May 25, 1965 [SA-9]
Box 65, Folder 6	TL Satellites, Artificial -- Pegasus C (III) [SA-10] micrometeoroid detection [7/30/65]

Box 65, Folder 7	TL Satellites, Artificial -- POGO (S-50) Polar Orbit. Geophys. Observatory
Box 65, Folder 8	TL Aero - Satellites, Artificial -- Program Lag, U.S.
Box 65, Folder 9	TL Satellites, Artificial -- Public Opinion [EMPTY FOLDER]
Box 65, Folder 10	TL Satellites, Artificial -- [Explorer 26] Radiation Detection [Snooper 101 lbs] [ 12/21/64]
Box 65, Folder 11	TL Satellites, Artificial -- Radio Telescope "X" [RAE-A (Explorer 38)]
Box 65, Folder 12	TL Satellites, Artificial -- RAE-A, RAE-B Radio Astronomy Explorers [Explorer 49]
Box 65, Folder 13	TL Satellites, Artificial -- Reflector
Box 65, Folder 14	TL Satellites, Artificial -- Relay (experimental communication satellite) [RCA] [12/13/62]
Box 65, Folder 15	TL Satellites, Artificial -- Relay I 1963
Box 65, Folder 16	TL Aero - Satellites, Artificial -- Russia [See also TL Aero Guided Missiles -- ICBM Russia]
Box 65, Folder 17	TL Satellites, Artificial -- Russian -- Cosmos -- 1-24 1962/63
Box 65, Folder 18	TL Satellites, Artificial -- Russia - Cosmos - 26-98[-109] 1964/65
Box 65, Folder 19	TL Satellites, Artificial -- Russia -- Cosmos 1[1]0 -- (2/22/66 two dogs) [C-110]
Box 65, Folder 20	TL Satellites, Artificial -- Russia -- Cosmos 111 -- [10/30/67 186-188 docking]
Box 66, Folder 1	TL Satellites, Artificial -- Russia -- Elektron 1, 2 Jan 30, 1964 [(Proton I 26, 896 pound See TL-Space Station -- Russian)]
Box 66, Folder 2	TL Satellites, Artificial -- Russia -- Molnya (Lightning) 1966
Box 66, Folder 3	TL Satellites, Artificial -- Russia -- Satellite & Space Summaries
Box 66, Folder 4	TL Aero - Satellites, Artificial -- Russia --Sputnik [I & II] Signals and [obliterated]
Box 66, Folder 5	TL Aero -- Satellites, Artificial -- Russia -- Sputnik [1] (Newspaper clippings) [1957 Alpha]
Box 66, Folder 6	TL Aero -- Satellites, Artificial -- Russia -- (Second Earth Satellite) -- Sputnik II -- Launched Nov. 3 [EW folder 1957 Beta]



Box 66, Folder 7	TL Aero -- Satellites, Artificial -- Russia -- No. 2 [(Muttnik) 1957 Beta 11/3/57] [See also: Space Travel -- Animals; Satellite Artif. -- Tracking]
Box 66, Folder 8	TL Aero -- Satellites, Artificial -- Russia -- Sputnik III [5/15/58 -- 4/6/60 1958 Delta] [May 15, 58]
Box 66, Folder 9	TL Satellites, Artificial -- Russia -- Sputnik [VII] 2/4/61 [Sputnik IV -- VII May 15, 60]
Box 66, Folder 10	[Sputnik? 3/18/62 9/16/62]
Box 66, Folder 11	TL Satellites, Artificial -- S-6 Atmospheric [Explorer 17 Apr 1963] [Aeronomy Satellite] [for S-3 see Explorer XII; S-27 See: TL-Sat. Artif. -- Topside Sounder (Canadian)]
Box 66, Folder 12	TL Satellites, Artificial -- S-45 (Ionosphere Beacon Satellite) [2/24/61 (Failed) 5/24/61 (failed)] [S-55 (Micrometeorite Satellite S55B see folder: Explorer 16)]
Box 66, Folder 13	TL Satellites, Artificial -- S-53 [UK-2] (UK-3) [Ariel II, III 1964 UK-C] [See also: UK 1 in TL -- Sat. Artif. -- Ariel]
Box 67, Folder 1	TL Satellites, Artificial -- S-66 -- Polar Ionosphere Beacon Satellite [Explorer 22] [See also: Explorer XXII]
Box 67, Folder 2	TL Satellites, Artificial -- SMS Synchronous Meteorolog. Sat.
Box 67, Folder 3	TL Satellites, Artificial -- Weather -- Stanford Proposals Swami, Spinmap
Box 67, Folder 4	TL Satellites, Artificial -- Telstar [(Program)] [See also: TL -- Sat. Artif. -- Communication -- Bell Tel.; TL -- Sat. Artif. -- TV]
Box 67, Folder 5	TL Satellites, Artificial -- Telstar [July 10, 1962]
Box 67, Folder 6	TL Satellites, Artificial -- Telstar -- 1963 [Bibliography]
Box 67, Folder 7	TL Satellites, Artificial -- Telstar II
Box 67, Folder 8	TL Satellites, Artificial -- TIMATION Navigation
Box 67, Folder 9	TL Satellites, Artificial -- Secor Mapping (Army) [Aug 10, 65 (Scout rocket)] [See also: TL -- Sat. Artif. -- Geodetic Mapping]
Box 67, Folder 10	TL Satellites, Artificial -- SHEPOS - Super High Energy Physics On Satellite
Box 67, Folder 11	TL Satellites, Artificial -- Skyhook
Box 67, Folder 12	TL Satellites, Artificial -- Small -- TRW series
Box 67, Folder 13	TL Satellites, Artificial -- Solar Effects

Box 67, Folder 14	TL Aero - Satellites, Artificial -- Solar Power [Solar-Thermionic]
Box 67, Folder 15	TL Satellites, Artificial -- Syncom
Box 67, Folder 16	TL Satellites, Artificial --San Marco (Italian) 12/15/64
Box 67, Folder 17	TL Satellites, Artificial -- SATAR [Satellite for Aerospace Research (Gen. Dyn.)]
Box 67, Folder 18	TL Satellites, Artificial -- Satellite Applications [See also: TL -- Space Technology Applications]
Box 67, Folder 19	TL Satellites, Artificial -- Scientific Findings -- 1960-1963
Box 67, Folder 20	TL Satellites, Artificial -- Scout [A.F. 8/23/62 Air Density Drag Measurement (S-56)] [12 ft balloon] [See also: TL -- Space Rocket -- Blue Scout (See -- Solid Fuel)]
Box 68, Folder 1	TL Aero - Satellites, Artificial -- Tiros I 4/1/60
Box 68, Folder 2	TL Satellites, Artificial -- TOLO
Box 68, Folder 3	TL Satellites, Artificial -- TOS System Tiros Operational Satellite System
Box 68, Folder 4	TL Aero - Satellites, Artificial -- Tracking
Box 68, Folder 5	TL Satellites, Artificial -- Tracking -- Operation Moonwatch
Box 68, Folder 6	TL Satellites, Artificial -- Tracking -- 1960/65
Box 68, Folder 7	TL Satellites, Artificial -- Tracking -- 1966/67/
Box 68, Folder 8	TL Aero - Satellites, Artificial -- Transit I 9/17/59 (Failure)
Box 68, Folder 9	TL Aero - Satellites, Artificial -- Transit 1-B Navigational Aid April 13, 1960
Box 68, Folder 10	TL Aero - Satellites, Artificial -- Transit II-A [6/22/60]
Box 68, Folder 11	TL Satellites, Artificial -- Transit III-A [III-B Double satellite -- Navigation. Rocket fragments on Cuba 11/30/60]
Box 69, Folder 1	TL Satellites, Artificial -- Transit IV-A June 29, 1961
Box 69, Folder 2	TL Satellites, Artificial -- Transit IV-B TRAAC
Box 69, Folder 3	TL Aero - Satellites, Artificial -- TV
Box 69, Folder 4	TL Satellites, Artificial -- Uhuru (X-ray sat.)

Box 69, Folder 5	TL Satellites, Artificial -- UK-E
Box 69, Folder 6	TL Aero - Satellites, Artificial -- U.S.-British [4/26/62 see UK-1 S-51] [See also: Sat. Artif. -- S-51 (UK-1) International Ionosphere Satellite]
Box 69, Folder 7	TL Aero - Satellites, Artificial -- Unidentified (Lonesome George)
Box 69, Folder 8	TL Aero - Satellites, Artificial -- Vanguard Project
Box 69, Folder 9	TL Aero - Satellites, Artificial -- Vanguard I [1958 Beta 2 Mar 17, 58]
Box 69, Folder 10	[Vanguard II]
Box 69, Folder 11	TL Aero - Satellites, Artificial -- Vanguard III Sept. 18, 1959
Box 69, Folder 12	TL Satellites, Artificial -- Weather -- Nimbus 3 (Nimbus-B2) 4/14/69
Box 69, Folder 13	TL Satellites, Artificial -- Weather -- Nimbus B [would have been Nimbus 3] [May 19, 68]
Box 70, Folder 1	TL Aero - Satellites, Artificial -- Yeast
Box 70, Folder 2	TL Aero - Satellite Balloon [Project "Echo" 100 foot Radio Mirror Oct 28, '59 (2)]
Box 70, Folder 3	TL Aero - Satellite Balloon -- 12foot
Box 70, Folder 4	TL Aero - Satellite Balloons -- POCIBO Polar Circling Balloon Observatory
Box 70, Folder 5	TL Space Admin. -- NASA -- Electronics Center
Box 70, Folder 6	TL Space Admin. -- NASA -- Military
Box 70, Folder 7	TL Space -- Accidents & Liability
Box 70, Folder 8	TL Space Aircraft -- X-24B
Box 70, Folder 9	TL Space -- Asteroid Capture
Box 70, Folder 10	TL Space Astronomy -- LION [LOFT]
Box 70, Folder 11	TL Space Astronomy -- STRAP [Zeta Ophiuchus] [See also: TL -- Sounding Rockets -- Ultraviolet]
Box 70, Folder 12	TL Space -- Atomic Energy [See also: TK -- Atomic Battery -- SNAP]
Box 70, Folder 13	TL Aero -- Space -- Automatic Recovery

Box 70, Folder 14	TL Space Balloon -- STAR GAZER Project [1962 87,000 feet alt.] [Hynek, Northwestern U., AFCRL] [Kittinger, White]
Box 70, Folder 15	TL Space Balloons -- 1963 {- 1964-66] [See also: QC Meteorology -- Ghost Balloons]
Box 70, Folder 16	TL Space Balloons -- 1967/68/[69] 158,000 ft [De Vinci]
Box 70, Folder 17	TL Aero -- Space Balloon Flights [1/26/60 "Skyhook-60" (Marcel Schein)]
Box 70, Folder 18	TL Aero -- Space Balloons [also: Ross -- Moore Stratosphere trip '59]
Box 70, Folder 19	TL Space Balloon Flights -- Animals July, Aug., 1962 Monkeys, hamsters
Box 70, Folder 20	TL Space Balloons, Manned -- Stratolab 5/4/61 113,500 feet [Navy Ross, Moore] [80,000 100,000 ft 130,000 25 miles]
Box 71, Folder 1	TL Space Batteries -- SNAP 27
Box 71, Folder 2	TL Aero -- Space -- Bibliography
Box 71, Folder 3	TL Aero -- Space Biology [See also: TL -- Aero -- Space Medicine; xxx TL -- Aero -- Space Travel -- Astronauts; See also: BF -- Man in Space]
Box 71, Folder 4	TL Aero -- Space Biology -- 1959 -- [1960 -- 1961] [See also: TL -- Aero -- Space Medicine, Space Food, Space Travel -- Astronauts; BF -- Man in Space]
Box 71, Folder 5	TL Space Biology -- 1962 -- [1963-]
Box 71, Folder 6	TL Space Biology -- 1964 -- [1966]
Box 71, Folder 7	TL Space Bioscience 1966-[70]
Box 71, Folder 8	TL Space Cabin -- Atmospheres
Box 71, Folder 9	TL Space Cabin -- Atmosphere -- Two-Gas
Box 72, Folder 1	TL Space Cabin -- Pollution
Box 72, Folder 2	TL Space -- Canada [See also: TL -- Sat. Artif. -- Alouette Canada]
Box 72, Folder 3	TL Aero -- Space Capsule -- Animals
Box 72, Folder 4	TL Aero -- Space Capsules -- Manned
Box 72, Folder 5	TL Space Chemistry
Box 72, Folder 6	TL Space Collisions

Box 72, Folder 7	TL Space -- Commercial Uses
Box 72, Folder 8	TL Space -- Committee on Science & Astronautics -- House
Box 72, Folder 9	TL Aero -- Space Communications [See also: QB -- Moon -- Radio Relay; TK -- Radio Signals -- Ionized Cloud; TK -- Radio Signals -- Venus; QB -- Radio Telescopes -- Project Ozma]
Box 72, Folder 10	TL Space Communications -- Laser Beams
Box 72, Folder 11	TL Space Communications -- LES (UHF, X) Lincoln Experimental Sat.
Box 72, Folder 12	TL Space Communications -- Microwave "hot electrons" [Haystack]
Box 72, Folder 13	TL Space Communication -- [Molecular Beam]
Box 72, Folder 14	TL Space Communications -- Project West Ford
Box 72, Folder 15	TL Space Communications -- 1963-64[-66,68]
Box 72, Folder 16	TL Spacecraft -- Russia -- Venera 4 June 12, 1967
Box 72, Folder 17	TL Space Debris
Box 73, Folder 1	TL Space -- Defense [See also: TL -- Space -- Military Uses
Box 73, Folder 2	TL Space -- Developing Nations
Box 73, Folder 3	TL Space Drive
Box 73, Folder 4	TL Space -- Electric Power Sources [See also: TK -- Atomic Battery -- SNAP; TL -- Space Reactors
Box 73, Folder 5	TL Space -- Engineering
Box 73, Folder 6	TL Space Ecology [See also: TL -- Space Travel -- Environment, effects of]
Box 73, Folder 7	TL Space Engineering Board, Aeronautics
Box 73, Folder 8	TL Space Environment [See also: TL -- Space Flight Simulators; TL -- Space Flight Simulation Tests; TL -- Space Cabin Atmospheres]
Box 73, Folder 9	TL Space Environment -- Test Facilities [See also: TL - Space -- Zero Gravity]
Box 73, Folder 10	TL Space -- Exobiology [See also: TL -- Space -- Life in; QH -- Life]
Box 74, Folder 1	TL Space Exploration, Space Experiments

Box 74, Folder 2	TL Space -- Extraterrestrial Ring Current
Box 74, Folder 3	TL Space Flight -- Abort
Box 74, Folder 4	TL Space Flight Adaptation
Box 74, Folder 5	TL Space Flight Awards
Box 74, Folder 6	TL Space Flight -- Commercial
Box 74, Folder 7	TL Space Flight -- Costs
Box 74, Folder 8	TL Aero -- Space Flight -- Mice (Oct. 13, 1960) Sally, Amy & Moe
Box 74, Folder 9	TL Aero -- Space Flight -- Monkeys 12/4/59 [Sam] [Miss Sam 1/22/60]
Box 74, Folder 10	TL Aero -- Space Flight -- Monkeys May 28, 1959 [Baker & Able]
Box 74, Folder 11	TL Space Flight -- Monkeys -- Ham [1/31/61 ] [Scatback (12/20/61)]
Box 74, Folder 12	TL Space Flight -- Radiobiology
Box 74, Folder 13	TL Space Flight Records -- [World]
Box 74, Folder 14	TL Space Flight Safety
Box 74, Folder 15	TL Space Flight Simulation -- Gravity, Artificial
Box 74, Folder 16	TL Space Flight Simulators
Box 74, Folder 17	TL Space Flight Simulation Tests
Box 75, Folder 1	TL Aero - Space Food [See also -- TL -- Space -- Water Supply]
Box 75, Folder 2	TL Space Food -- 1964/65[/69]
Box 75, Folder 3	TL Space -- France
Box 75, Folder 4	TL Space -- Frequency Allocations
Box 75, Folder 5	TL Space Geology
Box 75, Folder 6	TL Space Gliders -- ASSET
Box 75, Folder 7	TL Aero -- Space [Glider] -- Dyna-Soar [See also: TL -- Space Travel -- X-20]
Box 75, Folder 8	TL Aero -- Space Gliders [Flex Wing -- Paraglider]

Box 75, Folder 9	TL Space Glider -- Lifting Body HL-10 [See also: M2-F2 folder]
Box 75, Folder 10	TL Space Glider -- Lifting Body M2-F2 and HL-10
Box 75, Folder 11	TL Space Glider -- Lifting Body -- X-24
Box 75, Folder 12	TL Space Glider -- Rotornet
Box 75, Folder 13	TL Space -- Gun-Launched Probes
Box 75, Folder 14	TL Aero -- Space -- Image Sensing
Box 75, Folder 15	TL Space -- Inflatable Structures [& Expandable (Goodyear)]
Box 76, Folder 1	TL Aero - Space Instruments
Box 76, Folder 2	TL Space -- International Academy of Astronautics
Box 76, Folder 3	TL Aero -- Space -- International Cooperation [See also: Space Law]
Box 76, Folder 4	TL Space -- International Cooperation 1970-
Box 76, Folder 5	TL Aero -- Space -- International Cooperation -- COSPAR
Box 76, Folder 6	TL Space -- International Cooperation -- COSPAR April 1962 [Titov visit] [See also: TL -- Space Experiment -- COSPAR]
Box 76, Folder 7	TL Space -- International Cooperation -- COSPAR [1963-64]
Box 76, Folder 8	TL Space -- International Cooperation -- COSPAR -- 1966-
Box 76, Folder 9	TL Space -- International Cooperation -- ELDO
Box 76, Folder 10	TL Space -- International Cooperation -- European [ESRO] [See also: TL -- Space -- Sounding Rockets -- Foreign; Sat. Artif. -- ESRO I; Sat. Art. -- Europa I (ELDO)]
Box 76, Folder 11	TL Space -- International Cooperation -- U.S. -- European
Box 76, Folder 12	TL Space -- International Cooperation -- LIL [Lunar International Laboratory]
Box 76, Folder 13	TL Space -- International Cooperation -- Space Treaty
Box 76, Folder 14	TL Space -- International Cooperation -- U.S. -- USSR 1962 -- 1963 -- 1964 [-65]
Box 76, Folder 15	TL Space -- International Cooperation -- US/USSR -- 1966 [1970/72]

Box 77, Folder 1	TL Space -- Japan
Box 77, Folder 2	TL Space Laboratories -- ABL -- Automated Biological Laboratory
Box 77, Folder 3	TL Space -- Launching Guns
Box 77, Folder 4	TL Space -- Launchings -- Orbital
Box 77, Folder 5	TL Space -- Launching Sites
Box 77, Folder 6	TL Space -- Launching Sites -- Cape Canaveral
Box 77, Folder 7	TL Space -- Launching Sites -- Cape Kennedy
Box 77, Folder 8	TL Space -- Launchings -- Summaries
Box 77, Folder 9	TL Space -- Launchings -- Woomera Base
Box 77, Folder 10	TL Aero -- Space Law [See also: TL -- Aero -- Space -- Informal Cooperation; QB -- Space]
Box 77, Folder 11	TL Space Law -- 1960-61-[62-63]
Box 78, Folder 1	TL Space Law, Metalaw -- 1964[/65/66/68/69]
Box 78, Folder 2	TL Space -- Life -- 1964/65/
Box 78, Folder 3	TL Space -- Life In [See also: TL -- Space -- Exobiology; QB -- Meteorites -- Life -- Evidence]
Box 78, Folder 4	TL Aero -- Space Mechanics
Box 78, Folder 5	TL Aero -- Space Medicine [See also: TL -- Aero -- Space Biology]
Box 78, Folder 6	TL Space Medicine [See also: TL -- Bioscience]
Box 79, Folder 1	TL Aero -- Space Medicine -- 1960 [-1961-62]
Box 79, Folder 2	TL Space Medicine -- 1964 [/68]
Box 79, Folder 3	TL Space Monitoring (Operation Moonwatch) [NORAD]
Box 79, Folder 4	TL Aero -- Space Names
Box 79, Folder 5	TL Space - National Bureau of Standards
Box 79, Folder 6	TL Space Navigation [(Space scan)] [See also: TL -- Guided Missiles -- Inertial Guidance; TL -- Space -- Inertial Guidance]



Box 79, Folder 7	TL Space Navigation -- 1964/65/66 [Interplanetary] [TL -- Space Navigation -- Inertial Guidance]
Box 79, Folder 8	TL Space Navigation -- Attitude Control
Box 79, Folder 9	TL Space Navigation -- Inertial Guidance 1964/65/66/ [TL -- Space Navigation]
Box 79, Folder 10	TL Space Pharmacology
Box 80, Folder 1	TL Space -- Peaceful Uses -- 1963/64/65/66/
Box 80, Folder 2	TL Space Photograph
Box 80, Folder 3	TL Space Plane
Box 80, Folder 4	TL Space Policy [-1968]
Box 80, Folder 5	TL Space -- Propaganda
Box 80, Folder 6	TL Space Race/Moon Race -- 1963/64/65/66
Box 80, Folder 7	TL Space Race - Planet Race -- 1966-[68]
Box 80, Folder 8	TL Aero -- Space Race -- U.S. Lag [-1959] [See also: TL -- Aero -- Sat., Artif. -- Program Lag U.S.]
Box 80, Folder 9	TL Aero -- Space Race -- 1960 [-1962]
Box 80, Folder 10	TL Space -- Radiation Belt, Artificial -- High-altitude H-bomb Test (7/9/62) [Starfish] [See also: QC -- H-Bomb Tests -- 1962 -- Johnson Island]
Box 81, Folder 1	TL Space -- Radiation Belt[s] [1958-59] [See also: Space Travel -- Hazards]
Box 81, Folder 2	TL Space -- Radiation Belts -- 1964-[65/67]
Box 81, Folder 3	TL Space -- Radiation Belts -- Van Allen -- 1960, 61 [,62,63]
Box 81, Folder 4	TL Space -- Radiation Simulator -- Triga Mark-F [Radiation Proofing]
Box 81, Folder 5	TL Aero -- Space Radio Service
Box 81, Folder 6	TL Space Reactors
Box 81, Folder 7	TL Space Reactors -- SNAP 10-A [April 3, '65/66/1967]
Box 81, Folder 8	TL Space Reactor -- SNAP-11 -- 13

Box 81, Folder 9	TL Space Reactors -- SNAP Program -- General. SNAP 9-A to SNAP-50 Spur [See also: TK -- Atomic Battery -- SNAP 1963]
Box 82, Folder 1	TL Space Reactors -- SNAP-9A
Box 82, Folder 2	TL Space Reactors -- SNAP-27 [SNAP-29]
Box 82, Folder 3	TL Aero -- Space -- Recovery
Box 82, Folder 4	TL Aero -- Space -- Reentry
Box 82, Folder 5	TL Space -- Reentry -- 1962 -- [1963-64]
Box 82, Folder 6	TL Space -- Reentry -- 1965-[66-68] [BGRV, PRIME,RMP, Heat-Shield, Scout, ILRV
Box 82, Folder 7	TL Aero -- Space -- Reentry -- Nose Cone
Box 82, Folder 8	TL Aero -- Space -- Reentry -- Nose Cone Retrieval
Box 83, Folder 1	TL Space -- Reentry -- Plasma Sheath [Blackout Test RAM-C]
Box 83, Folder 2	TL Space -- Reentry -- Project Defender (Trailblazer) [See also: QB -- Telescopes -- 48 inch -- Spectrometric (Lincoln Lab)]
Box 83, Folder 3	TL Space -- Reentry -- Project Fire
Box 83, Folder 4	TL Space -- Reentry -- VFON TIP
Box 83, Folder 5	TL Space -- Reliability
Box 83, Folder 6	TL Space -- Repair in Orbit [See also: TL -- Space -- Maintenance]
Box 83, Folder 7	TL Space Research -- Industrial Applications [See also: Space Technology Applications]
Box 83, Folder 8	TL Space Research -- Lincoln Laboratory [See also: TL -- Space -- Reentry -- Project Defender]
Box 83, Folder 9	TL Space Research -- USRA -- Universities Space Research Assn.
Box 83, Folder 10	TL Space Robots
Box 83, Folder 11	TL Aero -- Space Rockets -- Agena
Box 83, Folder 12	TL Space Rockets -- ARES
Box 83, Folder 13	TL Space Rockets -- Athena

Box 83, Folder 14	TL Space Rockets -- Atlas
Box 83, Folder 15	TL Space Rockets -- Atlas/Burner II
Box 83, Folder 16	TL Space Rockets -- Blue Streak [Black Knight]
Box 83, Folder 17	TL Space Rockets -- Burner
Box 83, Folder 18	TL Space Rockets -- Centaur (AC-6) [8/11/65] [AC-7]
Box 84, Folder 1	TL Space Rockets -- Centaur (AC-8)
Box 84, Folder 2	TL Space Rockets -- Centaur (AC-9) [10/26/66] [AC-10]
Box 84, Folder 3	TL Space Rockets -- Centaur
Box 84, Folder 4	TL Space Rockets -- Centaur-4 et al [12/10/64]
Box 84, Folder 5	TL Space Rockets -- Centaur 5 (AC-5) 3/2/65 Failure
Box 84, Folder 6	TL Space Rockets -- Delta [Formerly (THOR)] [Accidents]
Box 84, Folder 7	TL Space Rockets -- Delta -- TAD [Hybrid-powered]
Box 84, Folder 8	TL Space Rockets -- Exhaust Gases
Box 84, Folder 9	TL Space Rockets -- Hybrid
Box 84, Folder 10	TL Space Rockets -- Large Launch Vehicle -- Future [Low Cost Booster]
Box 84, Folder 11	TL Space Rockets -- Little Joe II
Box 84, Folder 12	TL Space Rockets -- Nova [M-1] [See also F-1 engine] [See also: TL -- Space Propulsion -- F-1; Space Propulsion -- M-1]
Box 84, Folder 13	TL Space Rockets -- Phoenix
Box 84, Folder 14	TL Space Rockets -- Re-Usable [ICBT, RSLV, Pegasus]
Box 84, Folder 15	TL Space Rockets -- Re-Usable
Box 84, Folder 16	TL Space Rockets -- Thor
Box 84, Folder 17	TL Space Rockets -- Titan II Disaster in silo, Aug. 9, '65
Box 84, Folder 18	TL Space Rockets -- Titan III
Box 85, Folder 1	TL Space Rockets -- Titan III-C [Air Force]

Box 85, Folder 2	TL Aero -- Space Rockets -- Russian
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Box 85, Folder 4	TL Space Rockets -- Russia -- Intercosmos-2 [Sputnik]
Box 85, Folder 5	TL Space -- Russia -- Zond-5 9/15/68 -- 9/21/68
Box 85, Folder 6	TL Space -- Russia -- Luna 10 3/31/66
Box 85, Folder 7	TL Space -- Russia -- Mars 2 and 3
Box 85, Folder 8	TL Space -- Russia -- Luna 16, 17, 18, [19]
Box 85, Folder 9	TL Russia -- Venus Probes -- 5/6
Box 85, Folder 10	TL Russia -- Space [Ships] -- Zond-1 (4/2/64) [Nov 30/64 Zond-2, 7/18/65 Zond-3/4]
Box 85, Folder 11	TL Russia -- Spacecraft -- Soyuz 1 [4/24/67 Col. Vladimir M.Komarov]
Box 85, Folder 12	TL Russian -- Spaceship -- Soyuz 3
Box 85, Folder 13	TL Aero -- Space -- Russian Conjectures (A-blast hit Sodom)
Box 85, Folder 14	TL Space School
Box 85, Folder 15	TL Space Science Board
Box 85, Folder 16	TL Space Science Careers
Box 85, Folder 17	TL Russia -- Space [Ship] -- Mars (11/1/62) [Space Probe -- See also: Zond-2]
Box 85, Folder 18	TL Russia -- Space -- Mars 4 -- 7
Box 85, Folder 19	TL Space Ship -- Russia -- Luna 11
Box 85, Folder 20	TL Aero -- Space Ships [Manned]
Box 86, Folder 1	TL Aero -- Space Ships -- Russia [5/16/60; 8/19/60 (Belka & Strelka); 12/1/60, 3/25/61]
Box 86, Folder 2	TL Spaceship -- Russia -- Polyot-1 (11/1/63)
Box 86, Folder 3	TL Space [Ships] -- Russia -- Venus 2/11/61
Box 86, Folder 4	TL Space Ships -- Russia -- Venus 2 [,3] [landed & crashed] [11/12/65, 11/16/65, 3/1/66]

Box 86, Folder 5	TL Space -- Sounding Rockets
Box 86, Folder 6	TL Space -- Sounding Rockets [(Sodium Vapor)] -- 1964-[65] [Aerobee, Nike Cajun, Nike Apache, Javelin]
Box 86, Folder 7	TL Space -- Sounding Rockets -- 1966[/67/68]
Box 86, Folder 8	TL Sounding Rockets -- Accidents [empty folder]
Box 86, Folder 9	TL Sounding Rockets -- ARCAS
Box 86, Folder 10	TL Space -- Sounding Rocket -- Canadian -- Martlet I
Box 86, Folder 11	TL Space -- Sounding Rockets -- German
Box 86, Folder 12	TL Space -- Sounding Rockets -- Foreign [Italy, Netherlands, Israel, UAR, Greece]
Box 86, Folder 13	TL Space -- Sounding Rockets -- Foreign -- Argentine, [Brazil, Spain]
Box 86, Folder 14	TL Space -- Sounding Rockets -- Foreign -- Japan, Sweden, Australia, etc. [Pakistan, India, New Zealand]
Box 86, Folder 15	TL Space -- Sounding Rockets -- Geoprobe [3/2/66 Wallops Island, Aerobee]
Box 86, Folder 16	TL Sounding Rockets -- Ionosphere 66/67- Wallops I., Earth's Magnetic Field, Barium Clouds [German-American] [Artificial Aurora] [See also: TL -- SR -- Geoprobe]
Box 86, Folder 17	TL Sounding Rockets -- Meteorological - Sodium Clouds
Box 86, Folder 18	TL Sounding Rockets -- Parachute Test
Box 86, Folder 19	TL Sounding Rockets -- Tactical, Ballistic -- Pacific Miss. Range, DAR-3, HYDAC
Box 86, Folder 20	TL Sounding Rockets -- Ultraviolet -- Planets, stars [See also: TL -- Space Astronomy -- STRAP]
Box 86, Folder 21	TL Aero -- Space -- Speeches
Box 86, Folder 22	TL Space -- Safety
Box 86, Folder 23	TL Space -- Skyhook Project [See also earlier project -- TL -- Space Balloon -- Skyhook (Marcel Schein)]
Box 87, Folder 1	TL Space -- Solar Probe
Box 87, Folder 2	TL Aero -- Space -- Solar Radiation Effects

Box 87, Folder 3	TL Aero -- Space Stations [- General, 1958-1962]
Box 87, Folder 4	TL Space Stations -- 1963/64/65/66[67] [See also: TL -- Space -- Int. Coop -- LIL]
Box 87, Folder 5	TL Space Stations -- MOL, Manned Orbiting Laboratory [Killed June 69]
Box 87, Folder 6	TL Space Stations -- 1963 -- [1965] [Manned Orbital Research Laboratory 4-men, 1 yr. MODS-MORL MORL Boeing Douglas [See also: TL -- Space Station -- MOL]
Box 87, Folder 7	TL Space [Stations] Laboratories -- Outpost, Ecoms. -- [AORL,] LORL [,ORL]
Box 87, Folder 8	TL Space Station -- 1970 -- [1973/1974] (Skylab) [2 & 3] [5/14/73]
Box 87, Folder 9	TL Space Station -- Russia -- Luna 9 -- Jan. 31, 1966
Box 87, Folder 10	TL Space [Station] -- Russia -- Moon -- Luna 12, 10/22/66 [12/22/66 - Luna 13, 4/8/68 - Luna 14]
Box 87, Folder 11	TL Space Station -- Russia -- Mars 2, May 1971
Box 87, Folder 12	TL Space Station -- Russian -- Proton I, July 16, 1965
Box 87, Folder 13	TL Space Station -- Russia -- Proton 2, Nov. 1, 1965
Box 87, Folder 14	TL Space Station -- Russia -- Proton 3, 7/6/66 [Nov 68 -- Proton 4]
Box 87, Folder 15	TL Space Station -- Russia -- Salyut, 4/19/71
Box 87, Folder 16	TL Space -- Sputnik -- Soviet Bloc
Box 88, Folder 1	TL Space -- Sterilization
Box 88, Folder 2	TL Space Suit (Medical Use)
Box 88, Folder 3	TL Aero -- Space Surveillance (SPASUR)
Box 88, Folder 4	TL Space -- Summaries
Box 88, Folder 5	TL Aero -- Space -- Tape Recorders
Box 88, Folder 6	TL Space Task Group -- Post Apollo Report
Box 88, Folder 7	TL Space -- Technical Requirements -- 1960 Aerospace forecast
Box 88, Folder 8	TL Space Technology Applications [See also: Satellite Applications]

Box 88, Folder 9	TL Space Technology Applications -- Licenses, Patents 1967/68/69
Box 88, Folder 10	TL Space -- Telecommunications & Space Disturbance Services Center
Box 89, Folder 1	TL Space -- Telemetry
Box 89, Folder 2	TL Space Telescope [LST]
Box 89, Folder 3	TL Aero -- Space -- Temperature Control "Thermo-Lag"
Box 89, Folder 4	TL Space -- Thermionic Power [See also: TL -- Space Reactors]
Box 89, Folder 5	[TL] Space Tools [Pix]
Box 89, Folder 6	TL Space Tracking -- Deep Space
Box 89, Folder 7	TL Space Transport -- Orbital
Box 89, Folder 8	TL Aero -- Space Travel -- 1958 [See also: Space Capsule, Manned] [For early folders see left uppermost drawer with early Satellite folders]
Box 89, Folder 9	TL Aero -- Space Travel -- 1959
Box 90, Folder 1	TL Aero -- Space Travel -- 1960 [- 1961]
Box 90, Folder 2	TL Aero -- Space Travel -- 1962/63 [/64/65]
Box 90, Folder 3	TL Aero -- Space Travel -- Animals [See also: Sputnik II]
Box 90, Folder 4	TL Aero -- Space Travel -- Animals -- 1962-65
Box 90, Folder 5	TL Aero -- Space Travel -- Animals -- OPS [& OPE] (Orbiting Primate Spacecraft) [(Orbiting Primate Experiment)] [See also: TL -- Sat. Artif. -- Biosatellite -- D -- Primate-Carrying]
Box 90, Folder 6	TL Aero -- Space Travel -- Project Apollo [Saturn Rocket 1960-62]
Box 90, Folder 7	TL Aero -- Space Travel -- Project Apollo -- 1963 [1964]
Box 91, Folder 1	TL Aero -- Space Travel -- Project Apollo -- 1965
Box 91, Folder 2	TL Aero -- Space Travel -- Project Apollo -- 1966
Box 91, Folder 3	TL Space Travel -- Apollo VI [or Saturn V] [4/4/68 failure]
Box 91, Folder 4	TL Space Travel -- Apollo 2 -- 1967

Box 91, Folder 5	Space Travel -- Apollo Accident Investigation -- 1967 [See also: TL -- Space Travel -- Astronauts -- Fatality -- Oxygen Fire]
Box 92, Folder 1	TL Space Travel -- Apollo Applications
Box 92, Folder 2	TL Space Travel -- Apollo Escape System
Box 92, Folder 3	TL Space Travel -- Apollo -- Evaluation 1969
Box 92, Folder 4	TL Space Travel -- Apollo Extension System [AES] [See also: TL -- Space Program -- Post Apollo]
Box 92, Folder 5	TL Space Travel -- Post Apollo -- 1969- [Task Group Report]
Box 92, Folder 6	[TL -- Space Travel -- Astronauts]
Box 92, Folder 7	TL Aero -- Space Travel -- Astronauts [See also: TL -- Aero -- Space Travel -- X-15; TL -- Aero -- Space Capsule; TL -- Aero -- Space Travel -- Project Mercury]
Box 92, Folder 8	TL Space Travel -- Astronauts 1962
Box 93, Folder 1	TL Space Travel -- Astronauts - 1963 [/64]
Box 93, Folder 2	TL Space Travel -- Astronauts - 1965-[66]
Box 93, Folder 3	TL Space Travel -- Astronauts/Apollo 1967/[68/69]
Box 93, Folder 4	TL Astronauts -- Apollo -- Back-Contamination
Box 93, Folder 5	TL Space Travel -- Astronauts -- Fatality -- Apollo [204] Oxygen Fire 1/27/67 [See also: TL -- Space Travel -- Apollo Program Investigation]
Box 93, Folder 6	TL Space Travel -- Astronauts -- Health
Box 93, Folder 7	TL Space Travel -- Astronauts - Life Support Systems [See also: TL - Space Travel -- Astronomy -- Water Supply]
Box 93, Folder 8	TL Space Travel -- Astronauts --Long Term Life Support
Box 93, Folder 9	TL Space Travel -- Astronauts -- Military
Box 93, Folder 10	TL Space Travel -- Astronauts -- Rescue
Box 93, Folder 11	TL Space Travel -- Astronauts - Scientists
Box 94, Folder 1	TL Space Travel -- Astronauts - Vision
Box 94, Folder 2	TL Space Travel -- Astronauts - Waste Management [Oxygen Supply]



Box 94, Folder 3	TL Space Travel -- [Astronauts] Water Supply
Box 94, Folder 4	TL Space Travel -- Astronauts -- Women
Box 94, Folder 5	TL Aero-Space Travel -- Celestial Navigation [Maps, etc.]
Box 94, Folder 6	TL Aero -- Space Travel -- CETEX -- Committee on Extra-Terrestrial Exploration
Box 94, Folder 7	TL Space Travel -- Project Gemini [-'62/63] [See also: Space Travel -- Rendezvous Technique
Box 94, Folder 8	TL Space Travel -- Gemini 5 - Aug. 21, 1965
Box 94, Folder 9	TL Gemini 7 -- Calcium and Nitrogen Balance Studies*
Box 94, Folder 10	TL Space Travel -- Project Gemini -- '64
Box 94, Folder 11	TL Space Travel -- Gemini -- 1965 - Moon Landing Project
Box 95, Folder 1	TL Space Travel -- Project Gemini -- 1965 -- Gemini III [Mar 23, 65 -- Grissom & Young]
Box 95, Folder 2	TL Space Travel -- Gemini IV (walk in space) 6/2/65 - James A. McDivitt & Edward White
Box 95, Folder 3	TL Space Travel -- Project Gemini -- 1965 [GT-4]
Box 95, Folder 4	TL Space Travel -- Gemini GT-5
Box 95, Folder 5	TL Space Travel -- Gemini Rendezvous -- Gemini 6 & 7 [Preparations, plastic cap 12/12/65 stopped]
Box 95, Folder 6	TL Space Travel -- Gemini 6
Box 96, Folder 1	TL Space Travel -- Gemini 6 -- Oct 25, 1965 -- Agena Rocket Failure
Box 96, Folder 2	TL Space Travel -- Gemini 5 -- Medical Findings
Box 96, Folder 3	TL Space Travel -- Gemini 6/7 Rendezvous 12/15/65[ -- 12/16/65] [Walter M. Schirra, Thomas Stafford -- Success!]
Box 96, Folder 4	TL Space Travel -- Gemini 11 [Sept 12, 1966 -- Richard F. Gordon, Charles (Pete) Conrad, Jr. (walks, pooped)]
Box 96, Folder 5	TL Space Travel -- Moon -- Gemini 12 11/11/66 Edwin (Buzz) Aldrin, James Lovell
Box 96, Folder 6	TL Space Travel -- Gemini 12

Box 96, Folder 7	TL Space Travel -- Gemini Rendez-Vous Technique -- 1963-
Box 96, Folder 8	TL Space Travel -- Russia -- Vostok III, Vostok IV Aug. 11 & Aug. 12, 1962 Andrian G. Nikolayev, Pavel R. Popovich.
Box 96, Folder 9	TL Aero - Space Travel - Russia
Box 97, Folder 1	TL Space Travel -- Gemini 7
Box 97, Folder 2	TL Space Travel -- Gemini 7 Flight 12/4/65 [Frank Borman & James A. Lovell Jr.]
Box 97, Folder 3	TL Space Travel -- Gemini 8 Flight 3/16/66 Successful docking, tumble
Box 97, Folder 4	TL Space Travel -- Gemini 8 [Neil A. Armstrong & David R. Scott]
Box 97, Folder 5	TL Space Travel -- Gemini 9 6/3/66 (Agena Rocket went up 6/1/66) [Thomas P. Stafford, Eugene A. Cernan]
Box 97, Folder 6	TL Space Travel -- Gemini 9 [5/17/66 Agena Failure]
Box 97, Folder 7	TL Space Travel -- Gemini-10 [7/18/66 John W. Young & Michael Collins]
Box 97, Folder 8	TL Space Travel -- Glenn Effect
Box 97, Folder 9	TL Aero -- Space Travel -- Hazards [See also: TL -- Space -- Solar Radiation; TL -- Space -- Radiation Belts]
Box 97, Folder 10	TL Space Travel -- Hazards -- 1963/65[/69]
Box 97, Folder 11	TL Space Travel -- Hazards -- Solar Flares
Box 97, Folder 12	TL Space Travel - History
Box 98, Folder 1	TL Space Travel -- Manned Control
Box 98, Folder 2	TL Space Travel -- Project Mercury [See also: TL -- Aero -- Space Travel -- Astronauts]
Box 98, Folder 3	TL Space Travel -- Project Mercury '61
Box 98, Folder 4	TL Space Travel -- Project Mercury -- 1962
Box 98, Folder 5	TL Space Travel -- [Project Mercury] Chimp Enos [Nov. 29, '61]
Box 98, Folder 6	TL Space Travel -- Project Mercury -- [9] L. Gordon Cooper [,Jr.]
Box 98, Folder 7	TL Space Travel -- Project Mercury (MA-9) May 15, 1963 L. Gordon Cooper [,Jr.]

Box 99, Folder 1	TL Space Travel -- Project Mercury [6] Feb. 20, 1962 Lt. Col. John H. Glenn, Jr. [See also: TL -- Space Travel -- Glenn Effect]
Box 99, Folder 2	TL Space Travel -- Project Mercury Lt. Col. John H. Glenn, Jr. (attempt: 1/27/62)
Box 99, Folder 3	TL Space Travel -- Project Mercury -- Grissom 2nd try, suborbital, capsule lost (7/21/61)
Box 99, Folder 4	TL Space Travel -- Project Mercury 1964
Box 99, Folder 5	TL Space Travel -- Project Mercury (Carpenter, M. Scott) [May 17, 62 Aurora-7]
Box 99, Folder 6	TL Space Travel -- Project Mercury [8] Schirra, Walter M.
Box 100, Folder 1	TL Space Travel -- Project Mercury -- 10/3/62 Walter M. Schirra
Box 100, Folder 2	TL Space Travel -- Project Mercury -- Shepard 5/4/61
Box 100, Folder 3	TL Space Travel -- Military
Box 100, Folder 4	TL Aero -- Space Travel -- Moon -- 1958
Box 100, Folder 5	TL Aero -- Space Travel -- Moon -- 1959
Box 100, Folder 6	TL Aero -- Space Travel -- Moon -- 1960 [-1961-1962-63-64] [See also: TL -- Space Travel -- Moon -- Ranger]
Box 100, Folder 7	TL Aero -- Space Travel -- Moon -- Pioneer VI [9/25/60 -- 12/15/60 fizzled]
Box 100, Folder 8	TL Aero -- Space Travel -- Moon -- [Pioneers] -- Comparison
Box 100, Folder 9	TL Aero -- Space Travel 1958 -- Moon-Probe 3 [Failure 11/8/58 Pioneer II? 3rd Vanguard Air Force]
Box 101, Folder 1	TL Space Travel -- Moon -- Ranger VI [, VIII] Jan. 30, 1964
Box 101, Folder 2	TL Space Travel -- Moon -- Ranger 10-14
Box 101, Folder 3	TL Space Travel -- Moon -- Surveyor [(Instrument landing)]
Box 101, Folder 4	TL Space Travel -- Moon -- Surveyor TFR (Trouble & Failure Reporting)
Box 101, Folder 5	TL Aero -- Space Travel -- Moon [ - Landing]
Box 101, Folder 6	TL Space Travel -- Moon Landing -- 1961 -- [62] [See also: TL -- Space Travel -- Moon -- Ranger; TL -- Space Travel -- Moon Landing -- Surveyor; TL -- Space Travel -- Project Apollo]

Box 101, Folder 7	TL Space Travel -- Moon Landing 1963 [- 64, 65]
Box 102, Folder 1	TL Space Travel -- Moon Landing -- 66/67/
Box 102, Folder 2	TL Space Travel -- Moon Landing -- Apollo 11 Laser Ranging Retro Reflector
Box 102, Folder 3	TL Space Travel -- Moon Landing -- Apollo Telescope Mount (ATM)
Box 102, Folder 4	TL Space Travel -- Moon Landing -- Instruments [See also: TL -- Space Travel -- Surveyor]
Box 102, Folder 5	TL Space Travel -- Moon Landing -- Lunar Excursion Module [LEM]
Box 102, Folder 6	TL Space Travel -- Moon Landing -- LM3 (first manned lunar module)
Box 102, Folder 7	TL Space Travel -- Moon Landing -- LOR & ALOR
Box 102, Folder 8	TL Space Travel -- Moon Landing -- LRV -- Lunar roving vehicle [LLRV -- Lunar Landing Research Vehicle]
Box 102, Folder 9	TL Space Travel -- Moon [Landing] -- MOLAB -- Mobile Lunar Laboratory [For MOL, MORL see: TL -- Space Stations]
Box 102, Folder 10	TL Space Travel -- Moon Vehicles [LLRV]
Box 103, Folder 1	TL Space Travel -- 1958 -- Pioneer [I -- 10/13/58 NASA]
Box 103, Folder 2	TL Space Travel -- Pioneer III [Army 12/6/58]
Box 103, Folder 3	TL Aero -- Space Travel -- Pioneer IV (Army) 3/3/59 [Artificial Planet Two -- Juno Rocket -- Solar Orbit]
Box 103, Folder 4	TL Aero -- Space Travel -- Pioneer V [3/11/60 Sun Satellite / Planetoid]
Box 103, Folder 5	TL Space Travel -- Rendez-vous Technique [See also: Project Gemini craft]
Box 103, Folder 6	TL Space Travel -- Russia -- 1962/63/[64/65/66]
Box 103, Folder 7	TL Space Travel -- Russia --1967/68
Box 103, Folder 8	TL Space Travel -- Russia -- Cosmonauts
Box 103, Folder 9	TL Space Travel -- Russia -- Failures
Box 103, Folder 10	TL Space Travel -- Russia -- Moon
Box 103, Folder 11	TL Space Travel -- Russia -- Moon -- 67

Box 103, Folder 12	TL Space Travel -- Russia -- [(Moon)] Cosmic Rocket [Mechta Jan 2 1959 Lunik I Artificial Comet I]
Box 103, Folder 13	TL Space Rockets -- Russia -- Landing Tests [1965/66]
Box 103, Folder 14	TL Space Travel -- Russia -- Moon Landing
Box 104, Folder 1	TL Aero -- Space Travel -- Russia -- Moon Hit Sept. 12, 1959 [Lunik II]
Box 104, Folder 2	TL Space Travel -- Russia -- Lunik III Aug. 13, 1959
Box 104, Folder 3	TL Space Travel -- Russia -- Soyuz 10, Soyuz 11 [4/28/71, 6/6/71 24 days in space, dead]
Box 104, Folder 4	TL Space Travel -- Russia -- Soyuz 9 [6/1/70 13 days, 18 ½ hours, Record 220 orbits]
Box 104, Folder 5	TL Space Travel -- Russia -- Soyuz 6/7/8 -- 10/11/69; 10/12/69; 10/13/69]
Box 104, Folder 6	TL Space Travel -- Russia -- Soyuz 4 & 5 1/14/69; 1/15/69; docked 1/16/69
Box 104, Folder 7	TL Space Travel -- Russia -- Voskhod 2 [3/18/65 Alexei Leonov's space walk. Pavel Belyayev
Box 104, Folder 8	TL Russia -- Space Travel -- Sunrise Oct. 12, 1964 16-orbit [Voskhod; Vladimir M. Komarov, pilot; Konstantin Feoktistov, Scientist; Boris B. Yegorov, M.D.]
Box 104, Folder 9	TL Space Travel -- Russia -- Vostok I (4/12/61) Yuri Gagarin
Box 104, Folder 10	TL Space Travel -- Russia -- Vostok II (8/6/61) Gherman Titov
Box 104, Folder 11	TL Space Travel -- Russia -- Vostok V, Vostok VI June [14, 16, 19,] 1963 [Valery F. Bykovsky, Valentina Tereshkova
Box 104, Folder 12	TL Space Travel -- Russia -- Lunik IV (April 2, 1963)
Box 104, Folder 13	TL Space Travel -- Russia -- Luna-5 [5/10/65, 6/8/65 Luna 6 & 7; Luna 8 12/4/65]
Box 104, Folder 14	TL Space Travel -- U.S./U.S.S.R. Joint Mission [Apollo-Soyuz]
Box 105, Folder 1	TL Aero -- Space -- Weightlessness
Box 105, Folder 2	TL Space -- Weightlessness 1963/64/65
Box 105, Folder 3	TL Space -- Weightlessness -- 1967/70
Box 105, Folder 4	TL Space -- Welding

Box 105, Folder 5	TL Space -- Zero Gravity
Box 105, Folder 6	VK Navigation
Box 105, Folder 7	VK Navigation System Omega
Box 105, Folder 8	[VM] Hydrofoil Ships [- 1963]
Box 105, Folder 9	VM Submarines, Atomic -- Polaris
Box 105, Folder 10	VM Submarines -- Defense -- ASROC, SUBROC
Box 105, Folder 11	VM Submarine -- Flying
Box 105, Folder 12	TL Jet Propulsion -- Ram-Jet
Box 105, Folder 13	TL Aero -- Jet Pilots [See also: TL Aero -- Pilots]
Box 105, Folder 14	TL Satellites, Artificial -- Tiros II [Nov. 23, 1960]
Box 105, Folder 15	TL Satellites, Artificial -- Tiros III (7/12/61)
Box 106, Folder 1	TL Satellites, Artificial -- Tiros IV [Television -- Infrared; 2/7/62]
Box 106, Folder 2	TL Satellites, Artificial -- Tiros V [June 19, 1962]
Box 106, Folder 3	TL Satellites, Artificial -- Tiros VI [Sept 18, 1962]
Box 106, Folder 4	TL Satellites, Artificial -- Tiros VII [June 19, 1963]
Box 106, Folder 5	TL Aero -- Satellites, Artificial -- Orbital Post Office
Box 106, Folder 6	TL Space -- Manufacture -- Optical Glass*
Box 106, Folder 7	TL Space -- Micrometeorites [See also: QB - Dust Particles -- Interplanetary]
Box 106, Folder 8	TL Space -- Military Uses [See also: TL -- Space Weapons]
Box 106, Folder 9	TL Space -- Mutations
Box 106, Folder 10	TL Space -- Life in -- 1966/67
Box 106, Folder 11	TL Space -- Magnetosphere & Magnetopause [See also: TL -- Sat. Artif. -- Magnetic Field]
Box 107, Folder 1	TL Space -- Magnetosphere -- 1966/68
Box 107, Folder 2	TL Space -- Maintenance [See also: TL -- Space -- Repair in Orbit]

Box 107, Folder 3	TL Space -- Manpower
Box 107, Folder 4	TL Satellites, Artificial -- Secret -- 1963 [-64] [Discoverer Series]
Box 107, Folder 5	TL Satellites, Artificial -- Secret -- 1965/66[67/68]
Box 107, Folder 6	TL Aero - Satellites, Artificial - Midas "Spy in the Sky" [Feb. 60 -- failed]
Box 107, Folder 7	TL Satellites, Artificial -- Tiros VIII [12/21/63]
Box 107, Folder 8	TL Satellites, Artificial -- Tiros 9 (Jan. 22, 1965)
Box 107, Folder 9	TL Satellites, Artificial -- Tiros 10 Polar orbit 280-pound
Box 107, Folder 10	TL Satellites, Artificial -- Tiros M Space Bus
Box 107, Folder 11	TL Satellites, Artificial -- [Sentry, Midas] (Reconnaissance) ["Spy in the Sky"] [See: TL -- Sat. Artif. -- Samos]
Box 107, Folder 12	TL Satellites, Artificial -- Midas II [4/24/60]
Box 107, Folder 13	TL Satellites, Artificial -- Midas III (7/12/61)
Box 107, Folder 14	TL Satellites, Artificial -- Midas IV (Oct. 21, 1961)
Box 107, Folder 15	TL Satellites, Artificial -- Samos (Spy satellite) ["Ferret"] [Secret] [Samos II 2/1/61] [See also: TL -- Sat. Artif. -- Reconnaissance; TL -- Sat. Artif. -- Anna]
Box 107, Folder 16	TL Satellites, Artificial -- Tetrahedral Research TRS [Pygmy Satellite 1 ½ lb]
Box 107, Folder 17	TL Satellites, Artificial -- ESSA (Weather) [2/28/66 ESSA-2; Oct 2, 66 ESSA-3] [See also: TL -- Sat. Artif. -- TOS 1]
Box 107, Folder 18	TL Satellites, Artificial -- ESSA -- IV, V, VI Weather
Box 107, Folder 19	TL Satellites, Artificial -- ESSA 7 (Hurricane warnings)
Box 107, Folder 20	TL Satellites, Artificial -- Weather -- ESSA 8
Box 107, Folder 21	TL Satellites, Artificial -- Nimbus Meteorological satellite [See also: TL -- Sat. Artif. -- Weather]
Box 108, Folder 1	TL Satellites, Artificial -- Nimbus I 8/24/64
Box 108, Folder 2	TL Satellites, Artificial -- Nimbus D
Box 108, Folder 3	TL Satellites, Artificial -- Tiros 11 -- TOS 1 [for ESSA] [See also: TL -- Sat. Artif. -- ESSA (weather)]

Box 108, Folder 4	TL Satellites, Artificial -- TTS-1 (Test and Training Satellite)*
Box 108, Folder 5	TL Satellites, Artificial -- UCLA Satellite, 1966*
Box 108, Folder 6	TL Satellites, Artificial -- Uses of; Fish Spotting*
Box 108, Folder 7	TL Aero -- Satellites, Artificial -- Weather -- [1960-64] [See also: TL -- Aero -- Sat., Artif. -- Tiros I; QC -- Meteorology -- World Weather Watch]
Box 108, Folder 8	TL Aero -- Satellites, Artificial -- Weather -- 1965/66 [See also: TL -- Satellites -- ESSA Series]
Box 108, Folder 9	TL Satellites, Artificial -- Yo-Yo (U.S. Navy) [Gravity-stabilized]
Box 108, Folder 10	TL Satellites, Artificial -- Nimbus Series*
Box 108, Folder 11	TL Satellites, Artificial -- Weather -- NOMSS [Swami] [See also: QC -- Meteorology -- World Weather Watch]
Box 108, Folder 12	TL Aero -- Rockets - Russia
Box 109, Folder 1	TL STOL
Box 109, Folder 2	TL V/STOL -- 1962 -- 1967
Box 109, Folder 3	TL Supersonic Transport -- 1959 -- 62 [See also: TL -- Hypersonic Transport]
Box 109, Folder 4	TL Supersonic Transport -- 1963 [See also: TL -- Hypersonic Transport]
Box 109, Folder 5	TL Supersonic Transport -- 1964
Box 109, Folder 6	TL Supersonic Transport -- 1966
Box 110, Folder 1	TL Supersonic Transport -- 1967 -
Box 110, Folder 2	TL Supersonic Transport -- 1968[/69]
Box 110, Folder 3	TL Supersonic Transport -- 1970
Box 110, Folder 4	TL Supersonic Airliner [(old)]
Box 110, Folder 5	TL Aerial Platform [Curtiss-Wright VZ-7AP Aerial Platform]*
Box 110, Folder 6	TL Gyroplane
Box 110, Folder 7	TL Aero -- Helicopters -- 1950-53



Box 110, Folder 8

TL Vertical Take-Off -- VTOL 1960/61/62[/63]

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## Series 2: Photographs

**Arrangement:** A small number of photographs were found filed in the main Science Service subject folders that comprise Series 1; these images remain in their original subject folders. However, one records box was found to contain only photography; some of the photographs were found housed in folders, and others were merely placed loose in the box. The photographs in Series 2 were organized into two subseries.

### 2.1: Photographs in Folders or with Subjects Indicated

**Arrangement:** This subseries includes those photographs found in folders with the subject indicated, and loose photographs that had the Science Service subject headings written on the reverse of the prints.

Box 111, Folder 1	QC Linear Accelerator
Box 111, Folder 2	TK Dielectric Waveguide Detectors
Box 111, Folder 3	TL Aero -- Bombers
Box 111, Folder 4	TL Aero - Hydroplaning
Box 111, Folder 5	TL Aeronautics -- Instruments
Box 111, Folder 6	TL Aero -- Landing Track Beam
Box 111, Folder 7	TL Aero -- Medical Aspects
Box 111, Folder 8	TL Aero -- Pilot, Automatic
Box 111, Folder 9	TL Aero -- Pilots
Box 111, Folder 10	TL Aero -- Pilots - Safety
Box 111, Folder 11	TL Aero -- Pilots -- Tests
Box 111, Folder 12	TL Aero -- Pilots -- Training
Box 111, Folder 13	TL Aero -- Propellers
Box 111, Folder 14	TL Aero -- Research -- Langley Field
Box 111, Folder 15	TL Aero -- Research -- NACA 1958
Box 111, Folder 16	TL Airplanes -- Accessories
Box 111, Folder 17	TL Airplanes -- Accidents [press releases only]
Box 111, Folder 18	TL Airplanes -- Fire Hazard

Box 111, Folder 19	TL Airplanes -- Flight Plotting
Box 111, Folder 20	TL Airplanes -- Fuel Tanks
Box 112, Folder 1	TL Airplanes -- Fuselage
Box 112, Folder 2	TL Airplanes -- Hangars
Box 112, Folder 3	TL Airplanes -- Ice Hazard
Box 112, Folder 4	TL Aero -- Airplanes - Inspection
Box 112, Folder 5	TL Airplanes -- Landing -- Automatic [See also: Air Traffic Control]
Box 112, Folder 6	TL Airplanes -- Landing Gear
Box 112, Folder 7	TL Airplanes -- Maintenance
Box 112, Folder 8	TL Airplanes -- Plastic
Box 112, Folder 9	TL Airplanes -- Seaplanes -- Testing
Box 112, Folder 10	TL Airplanes -- Seats
Box 112, Folder 11	TL Airplanes -- Servicing
Box 112, Folder 12	TL Airplanes -- Snowcruiser
Box 112, Folder 13	TL Airplanes -- Sound Locators
Box 112, Folder 14	TL Airplanes -- Testing
Box 112, Folder 15	TL Airplanes -- Lighting
Box 112, Folder 16	TL Guided Missiles -- Polaris

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## 2.2: Loose Photographs without Subject Headings

Arrangement: This group of photographs did not have Science Service-assigned subjects indicated; the photographs were sorted and assigned subject headings by NASM Archives Division staff. The final folder in the subseries holds Science Service Files material originally filed in the Museum's Archives Division Technical Files; additional material will be added as it is found.

Box 112, Folder 17	[Aeronautics -- Bombs]
Box 112, Folder 18	[Aeronautics -- Education]
Box 112, Folder 19	[Aeronautics -- High-Altitude Testing]

Box 112, Folder 20	[Aeronautics -- Rocket Motor Testing]
Box 112, Folder 21	[Airplanes -- Aircraft Carrier Catapults]
Box 112, Folder 22	[Airplanes -- Avionics]
Box 112, Folder 23	[Airplanes -- Landing Lights]
Box 112, Folder 24	[Radio]
Box 112, Folder 25	[Robotics]
Box 112, Folder 26	Photographs returned from NASM Technical Files

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## Series 3: Miscellaneous Material

Arrangement: A miscellaneous group of file folders was found in the last box of the Science Service collection. The folders contained press releases, articles, papers, and written notes. The folder headings listed below are as written on the original folders either by the staff of Science Service or possibly by Smithsonian staff during the move of the files. Text in brackets ([...]), was added for clarity by NASM Archives Division staff.

One folder labeled "Misfiled" consisted of material separated from the main file boxes -- documents in this folder had been labeled with Science Service-assigned subject headings. NASM Archives Division staff filed this material in folders. These folders begin in Box 114, folder 3.

Box 113, Folder 1	AAAS [American Association for the Advancement of Science], 1971
Box 113, Folder 2	D-3 The Americas -- Satellites Article, 1961
Box 113, Folder 3	American Rocket Society Meeting, Oct. 9-15, 1961
Box 113, Folder 4	Apollo 12
Box 113, Folder 5	Chinese Science
Box 113, Folder 6	Comsat et al
Box 113, Folder 7-8	Interior [Department of the Interior press releases]
Box 114, Folder 1	Meteorological Satellites
Box 114, Folder 2	NOAA [National Oceanic and Atmospheric Administration] Releases
Box 114, Folder 3	Apollo 11
Box 114, Folder 4	Ballute Balloon-Parachute
Box 114, Folder 5	Saturn Program photograph
Box 114, Folder 6	Skylab
Box 114, Folder 7	Thor-Able IV
Box 114, Folder 8	TJ Furnace
Box 114, Folder 9	TL Space Capsule
Box 114, Folder 10	TL Space -- Telescopes
Box 114, Folder 11	TL UTTAS [Utility Tactical Transport Aircraft System]

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