



Smithsonian Institution Archives

Riccardo Giacconi Papers, 1955-2002

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Collection Overview

Repository:	Smithsonian Institution Archives, Washington, D.C., osiaref@si.edu
Title:	Riccardo Giacconi Papers
Identifier:	Record Unit 7416
Date:	1955-2002
Extent:	82.13 cu. ft. (80 record storage boxes) (2 document boxes) (1 16x20 box) (1 blueprint storage box)
Creator::	Giacconi, Riccardo
Language:	English

Administrative Information

Preferred Citation

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Historical Note

Riccardo Giacconi (1931-2018), an astrophysicist, was born in Genoa, Italy. He attended the University of Milan, receiving the PhD in 1954. From 1954 to 1956, he served as an Assistant Professor of Physics at the University, then became Research Associate (Fulbright Fellow) at Indiana University. From 1958 to 1959, he was a Research Associate in the Cosmic Ray Laboratory at Princeton University. In 1959 he took the post of Senior Scientist, vice president in charge of the Space Research and Systems Division, at American Science and Engineering (ASE), a private research corporation in Cambridge, Massachusetts. He stayed at ASE, serving as Executive Vice President and a member of the Board of Directors, until 1973, when he left to become Associate Director of the High Energy Astrophysics Division of the Harvard-Smithsonian Center for Astrophysics (CFA) and Professor of Astronomy at Harvard University. He remained at the CFA until 1981 when he was appointed first Director of the Space Telescope Science Institute (STSI) and Professor of Physics and Astronomy at The Johns Hopkins University. In 1991 he was also appointed Professor of Physics at the University of Milan.

Much of Giacconi's pioneering work in x-ray astronomy took place during his tenure at ASE, and he was a major force in the development of the company. In 1962 Giacconi's group succeeded in detecting the first extrasolar x-ray source. In 1963 the same group obtained the first solar x-ray picture by use of an x-ray telescope, which had been conceived, advocated, designed, and fabricated by them. In that same year Giacconi proposed an x-ray astronomy satellite, Explorer. The proposal led to a program of construction in 1966-1970, followed by a successful launch in 1970. The satellite became known as Uhuru, and represented a major qualitative step in x-ray astronomy's observational capability. Following this early work on solar x-ray studies, a major program, initiated in 1968, culminated in the flight of the SO-54 x-ray telescope on the Apollo Telescope Mount's Skylab mission. In 1970 a program for construction of a 1.2 meter x-ray telescope for study of extrasolar sources was initiated. The program was modified in

1973, and finally led to the Einstein Observatory mission, successfully launched in 1978. Giacconi had responsibility for the scientific direction and administrative management of all these programs.

Giacconi went to the CFA as Director of the High Energy Astrophysics Division in 1973. He oversaw the conception, fabrication, and design of the Einstein Observatory, preparation of the software and hardware for data reduction for Einstein, and the establishment and implementation of the Guest Observer Program.

In 1981 Giacconi became Director of the new Space Telescope Science Institute, managed by the Association of Universities for Research in Astronomy for the National Aeronautics and Space Administration (NASA). When fully operational, the STSI was to be the center of operations and research for the Hubble Space Telescope, which was launched in 1990. From 1987 to 1988, Giacconi served as a consultant to Montedison S.p.A., an Italian chemical conglomerate, with the title of Chairman of the Board, Istituto Donegani, the research arm of the parent corporation. This activity, which was an attempt to elevate Istituto Donegani to a world class center for chemistry, was soon abandoned.

In 1993, Giacconi left STSI to head the European Southern Observatory (ESO). ESO is an intergovernmental European organization for astronomical research. ESO coordinates the activities of the La Silla and Paranal observatories in the Atacama Desert in Chile. One of the major scientific achievements of ESO under Giacconi's leadership was the installation of the Very Large Telescope (VLT) at the Paranal Observatory.

Giacconi left ESO in 1999 and is currently the President of Associated Universities, Inc., which manages the National Radio Astronomy Observatory under a grant from the National Science Foundation.

Giacconi is the author of over 300 articles on x-ray astronomy. He has been awarded numerous prizes for his scientific research, including the 2002 Nobel Prize in Physics for the discovery of cosmic x-ray sources.

Descriptive Entry

These records document Riccardo Giacconi's professional career, and consist of papers illustrating his scientific work and administrative records relating to the institutions at which he worked.

There is extensive documentation of Giacconi's professional activities, including meetings attended, papers presented (and published), his services as officer or board member of professional societies; grants, proposals, and contracts, mainly with NASA; correspondence with colleagues; slides and photographs of many facilities with which Giacconi was associated (some unlabeled); news clippings and press releases; appointment books and journals; and files documenting his association with Montedison S.p.A.

Series 1 provides biographical information about Giacconi. Series 2 through 12 offer a roughly chronological overview of the institutions and major scientific projects with which Giacconi has been associated during his professional career. The institutions are American Science and Engineering (Series 2), Harvard-Smithsonian Center for Astrophysics (Series 4), Harvard University (Series 5), Space Telescope Science Institute (Series 11) and European Southern Observatory (Series 12).

Although all the institutional series mentioned contain both scientific and administrative records, there is a noticeable decline in scientific content when Giacconi moves from the Center for Astrophysics to the Space Telescope Science Institute. Interspersed amongst institutional series are series covering major scientific projects that spanned more than one institution, including the High Energy Astronomy Observatory (HEAO) series of satellites (Series 6-9), particularly HEAO-B also known as Einstein, Uhuru (Series 3), and the Advanced X-Ray Astronomical Facility (AXAF), later known as the Chandra X-Ray Observatory (Series 10).

Series 13 through 17 illustrate Giacconi's tenure on various committees having to do, primarily, with space science. Series 18 and 19 detail his involvement with professional scientific societies. Series 20 documents Giacconi's involvement in professional scientific meetings. Series 21 illustrates his involvement with Italian company Montedison and its efforts to found a scientific research institute. Series 22 contains Giacconi's general correspondence, much of it from his time at STSI. Series 23 consists of publications that did not match with any specific institute or project. Many of these publications are directed toward a lay audience. Series 24 contains generic materials relating to x-ray astronomy including newspaper clippings and articles. Series 25 consists of Giacconi's appointment books. Series 26 contains materials that relate to Giacconi's personal life, including receipts, pamphlets, announcements, and videotapes. Series 27 consists of awards that Giacconi received for his scientific accomplishments. The Nobel Prize is not included in this collection. The total volume of the collection is approximately 95 cubic feet.

Names and Subject Terms

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

Subjects:

- Astronomy
- Astrophysics
- Nobel Prizes
- S-054 Telescope
- Space photography
- X-ray telescopes

Types of Materials:

- Black-and-white photographs
- Black-and-white transparencies
- Clippings
- Color photographs
- Color transparencies
- Laboratory notebooks
- Manuscripts
- Scientific illustrations

Names:

- Advanced X-Ray Astrophysics Facility (U.S.)
- American Science and Engineering, Inc.
- Associated Universities, Inc.
- Association of Universities for Research in Astronomy
- Chandra X-ray Observatory (U.S.)
- Einstein Observatory
- European Southern Observatory
- European Southern Observatory. La Silla Observatory
- European Southern Observatory. Paranal Observatory
- Explorer 1 (Artificial satellite)
- Giacconi, Riccardo
- Harvard University
- Harvard-Smithsonian Center for Astrophysics
- Harvard-Smithsonian Center for Astrophysics. High Energy Astrophysics Division
- High Energy Astrophysical Observatory
- Hubble Space Telescope (Spacecraft)

Indiana University
International Astronomical Union
Johns Hopkins University
Large Orbiting X-Ray Telescope
Montedison S.p.A.
Montedison S.p.A. Istituto Donegani
National Academy of Sciences (U.S.)
National Radio Astronomy Observatory (U.S.)
National Research Council (U.S.)
National Science Foundation (U.S.)
Princeton University
Skylab Program
Smithsonian Astrophysical Observatory. Einstein Data Center
Space Telescope Science Institute (U.S.)
Uhuru (Artificial satellite)
United States. National Aeronautics and Space Administration
University of Milan
Very Large Telescope Project
X-Ray Astronomy Institute

Geographic Names:

Atacama Desert (Chile)
Scorpius X-1 (Star)

Container Listing

Series 1: Biographical Information, 1967-1968, 1971-1982, 2002, and undated

This series provides basic biographical information about Giacconi and some of his scientific accomplishments. The series consists of autobiographies, correspondence, photos, clippings and curriculum vitae. Two major sources of information are autobiographical accounts of Giacconi's scientific work, one of them specifically focused on early x-ray astronomy. There is also a folder of Who's Who biographies, a folder of Giacconi's curriculum vitae, some newspaper clippings and two photos of him giving lectures.

Box 1

Box 1 of 84	Folder 1 Giacconi Autobiography, 2002
Box 1 of 84	Folder 2 Recollections of Early X-Ray Astronomy, undated
Box 1 of 84	Folder 3 Curriculum Vitae, 1968, 1973-1977
Box 1 of 84	Folder 4 Who's Who Bios, 1977-1979
Box 1 of 84	Folder 5 Newspaper Clippings, 1973-1980
Box 1 of 84	Folder 6 Naturalization Certification, 1967
Box 1 of 84	Folder 7 Correspondence re: Development of X-ray Telescope, 1981-1982
Box 1 of 84	Folder 8 Photos, undated

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Series 2: American Science and Engineering Inc., 1958-1973

This series relates to Giacconi's work at American Science and Engineering Inc. (ASE) from 1959 through 1973. It contains project proposals, publications, correspondence, memoranda and news clippings. This series details many of the projects undertaken by ASE that were developed for government contracts, including the 1962 rocket flight that discovered the first extra-solar x-ray source and provided the impetus for the development of x-ray astronomy.

Box 1

Subseries 2a: Correspondence and Memoranda: 1961-1973

This subseries consists primarily of correspondence between ASE and NASA regarding projects undertaken by ASE for flights on NASA rockets. A smaller section of this subseries contains correspondence relating to the identification of extra-solar x-ray sources, including Sco X-1 (the first such source known) and the Crab Nebula. Also there is correspondence relating to two Christmas cards between ASE and the Naval Research Laboratory (NRL), which demonstrates how competitive x-ray astronomy was at the time.

Box 1 of 84	Folder 9 Vendors, 1960
Box 1 of 84	Folder 10 APS Meeting Trip Report, 1960
Box 1 of 84	Folder 11 NASA, 1961
Box 1 of 84	Folder 12 Ball Brothers, 1961-1962
Box 1 of 84	Folder 13 NASA, 1962
Box 1 of 84	Folder 14 NASA, 1963
Box 1 of 84	Folder 15 NASA, 1964
Box 1 of 84	Folder 16 Herbert Friedman, 1964, 1967-1968
Box 1 of 84	Folder 17 Bruno Rossi, 1964-1972
Box 1 of 84	Folder 18 NASA, 1965
Box 1 of 84	Folder 19 Hugh Johnson (Lockheed), 1966
Box 1 of 84	Folder 20 NASA, 1966
Box 1 of 84	Folder 21 ASE-NRL Christmas Card Dispute and Rivalry Over Priority, 1966
Box 1 of 84	Folder 22 Radiotelevisione Italiana, 1966-1967
Box 1 of 84	Folder 23 Crab Nebula, 1966-1967
Box 1 of 84	Folders 24-25 Optical Identification of Sco X-1, 1966-1967, 1970-1971

- Box 1 of 84 Folder 26 Materials Relating to Sco X-1, 1966 and undated
- Box 1 of 84 Folder 27 Visitors, 1966, 1968-1973
- Box 1 of 84 Folder 28 NASA, 1967
- Box 1 of 84 Folder 29 Correspondence Apollo Telescope Mount, 1967-1970
- Box 1 of 84 Folder 30 Memoranda Apollo Telescope Mount, 1967-1971
- Box 1 of 84 Folder 31 NASA, 1968
- Box 1 of 84 Folder 32 NASA, 1969
- Box 1 of 84 Folder 33 BBC Production "The Violent Universe," 1969
- Box 1 of 84 Folder 34 Grumman, 1969-1970
- Box 1 of 84 Folder 35 NASA, 1970
- Box 1 of 84 Folder 36 Solar Physics Report, 1970
- Box 1 of 84 Folder 37 NASA, 1971
- Box 1 of 84 Folder 38 NASA, 1972
- Box 1 of 84 Folder 39 IR Astronomy Proposal, 1972
- Box 1 of 84 Folder 40 Giacconi Resignation, 1973

Subseries 2b: Publications: 1959-1973, and undated

This subseries contains both publications produced internally by ASE employees for agencies funding their projects, and scholarly publications for scientific journals. This subseries also contains a comprehensive index for all internal publications during Giacconi's tenure.

- Box 1 of 84 Folder 41 Internal Document Index 2-995, undated

Box 2

- Box 2 of 84 Folder 1 Internal Document Index 1001-2748, undated
- Box 2 of 84 Folder 2 Internal Document Index 2748-3141, undated
- Box 2 of 84 Folder 3 Internal Document Index 3142-3284, undated
- Box 2 of 84 Folder 4 Detection of Soft X-Rays Produced on the Lunar Surface, 1959

- Box 2 of 84 Folder 5 Review of Experimental Theoretical Progress in X-Ray Astronomy, 1960
- Box 2 of 84 Folder 6 Instrumentation for X-Ray Astronomy, 1960
- Box 2 of 84 Folder 7 A "Telescope" for Soft X-Ray Astronomy, 1960
- Box 2 of 84 Folder 8 Particle Detection at 150 Miles Altitude, 1960
- Box 2 of 84 Folder 9 Instrumentation for Detection of Soft Lunar X-Rays, 1960
- Box 2 of 84 Folder 10 Company Brochures, c. 1960
- Box 2 of 84 Folder 11 An X-Ray Light Collecting Collimator, 1961
- Box 2 of 84 Folder 12 Physical Review Letters - "Evidence for X-Rays outside the Solar System," 1962
- Box 2 of 84 Folder 13 Measurement of Fluorescent X-Radiation from the Moon and Detection of Other X-Ray Sources, 1963
- Box 2 of 84 Folder 14 The Physical Review and Physical Review Letters - "Further Evidence for Galactic X-Rays," 1963
- Box 2 of 84 Folder 15 Space Science Reviews 4 - "Observation of X-Ray Sources Outside the Solar System," 1963-1965
- Box 2 of 84 Folder 16 Journal of Geophysical Research - "Measurements of Differential Energy Spectrums of Electrons in the Magnetosphere," 1964
- Box 2 of 84 Folder 17 Journal of the Optical Society of America - "Aplantic Telescope for Soft X-Rays," 1964
- Box 2 of 84 Folder 18 Nature - "Observation of Two Sources of Cosmic X-Rays in Scorpius and Sagittarius," 1964
- Box 2 of 84 Folder 19 COSPAR I (Space Research VI) "The Location and Spectra of Cosmic X-Ray Sources," 1965
- Box 2 of 84 Folder 20 A Study of X-Ray Sources Outside the Solar System Phases 1 and 2, 1965
- Box 2 of 84 Folder 21 Astrophysical Journal - "Solar X-Ray Images Obtained Using Grazing Incidence Optics," 1965-1966
- Box 2 of 84 Folder 22 Company Profiles, 1965-1967 and undated
- Box 2 of 84 Folder 23 Chicago Talk on Sco X-1, c. 1966 and undated
- Box 2 of 84 Folder 24 Journal of Geophysical Research "Space and Time Variations in Outer Belt Electron Spectra," 1966-1967

- Box 2 of 84 Folder 25 Correspondence - Reprint Requests, 1966-1968, 1970-1971
- Box 2 of 84 Folder 26 Annual Reports, 1966-1972
- Box 2 of 84 Folder 27 Volume in Honor of Bruno Rossi "Galactic X-Ray Sources," 1967
- Box 2 of 84 Folder 28 Preliminary Results from the OSO-IV X-Ray Spectroheliograph, 1967
- Box 2 of 84 Folder 29 Journal Articles, 1967-1969
- Box 2 of 84 Folder 30 Annual Review of Astronomy and Astrophysics "Observational Techniques in X-Ray Astronomy," 1968
- Box 2 of 84 Folder 31 Correspondence re: Evolution of Stars Volume, 1968
- Box 2 of 84 Folder 32 Scientific American - "X-Ray Stars," 1968
- Box 2 of 84 Folder 33 Science - "X-Ray Structures of the Sun During the Importance 1N Flare of 8 June 1968," 1968-1970
- Box 2 of 84 Folder 34 Space Science Reviews 9 - "Grazing Incidence Telescopes for X-Ray Astronomy," 1969
- Box 2 of 84 Folder 35 Journal Articles, 1970
- Box 2 of 84 Folder 36 ASE's Spectroheliograph for the Apollo Telescope Mount, 1970
- Box 2 of 84 Folder 37 Research Study on Stellar X-Ray Imaging Experiment, 1970
- Box 2 of 84 Folder 38 Research Study on Stellar X-Ray Imaging Experiment, 1971
- Box 2 of 84 Folder 39 Subcontract Management Plan for the Space Systems Division, 1971
- Box 2 of 84 Folder 40 A Compilation of Scientific Progress Reports for 1968-1969 on ASE's Spectroheliograph Experiment for Skylab-1, 1971
- Box 2 of 84 Folder 41 Progress Report Research Study on Stellar X-Ray Imaging Experiment, 1971
- Box 2 of 84 Folder 42 Journal Articles, 1971
- Box 3
- Box 3 of 84 Folder 1 A Program of High-Resolution X-Ray Astronomy using Sounding Rockets, 1972
- Box 3 of 84 Folder 2 X-Ray Astronomy in the Space Shuttle Time Period, 1972
- Box 3 of 84 Folder 3 Astrophysical Journal - "On the use of Long-Base Time-Delay Measurements in the Study of Rapidly Varying X-Ray Stars," 1972

- Box 3 of 84 Folder 4 Journal Articles, 1972
- Box 3 of 84 Folder 5 Clusters of Galaxies with a Wide Range of X-Ray Luminosities, 1973
- Box 3 of 84 Folder 6 Journal Articles, 1973
- Subseries 2c: Proposals: 1958, 1960-1972
- This subseries contains research proposals for projects to be developed by ASE for various government agencies including NASA.
- Box 3 of 84 Folder 7 Satellite-Borne Cosmic Ray Experiments (University of Chicago), 1958
- Box 3 of 84 Folder 8 Measurement of Soft X-Rays from a Rocket Platform, 1960
- Box 3 of 84 Folder 9 Experiment for the Measurement of Soft X-Rays from the Moon, 1960
- Box 3 of 84 Folder 10 Assay of the Lunar Surface by Means of X-Ray Spectroscopy, 1960
- Box 3 of 84 Folder 11 X-Ray Detector for High Resolution Mapping of the Sun from S-16A, 1961
- Box 3 of 84 Folder 12 Measurement of the Angular Position of a Point Source of Radiation from Single Satellite, 1961
- Box 3 of 84 Folder 13 Vela Hotel, 1961
- Box 3 of 84 Folder 14 Experiment to Measure Solar X-Radiation from S-57 Satellite, 1962
- Box 3 of 84 Folder 15 High Resolution X-Ray Mapping of the Sun from an OSO Satellite, 1963
- Box 3 of 84 Folder 16 Survey of Extraterrestrial Non-Solar X-Radiation by Rocket Borne Instruments, 1963
- Box 3 of 84 Folder 17 Lindsay Proposal, 1963
- Box 3 of 84 Folder 18 Experimental Plan of Extrasolar X-Ray Astronomy, 1963
- Box 3 of 84 Folder 19 X-Ray Astronomy from Manned Gemini Flights, 1963
- Box 3 of 84 Folder 20 Offer of ASE Instrument for NASA Experiments, 1964
- Box 3 of 84 Folder 21 High Resolution (5 Arc Second) X-Ray Telescope for the OAO, 1964

- Box 3 of 84 Folder 22 Initial Phase of a Program to Develop a High Resolution X-Ray Telescope for AOSO, 1964
- Box 3 of 84 Folder 23 In House Proposals, 1964
- Box 3 of 84 Folder 24 An Experiment to Detect Celestial X-Ray Sources from the OAO-A, 1964
- Box 3 of 84 Folder 25 A Program of X-Ray Astronomy from Sounding Rockets, 1964
- Box 3 of 84 Folder 26 To Study the Inclusion of a High Resolution X-Ray Telescope and Spectrometer for Celestial X-Ray Astronomy in the OAO-E, 1965
- Box 3 of 84 Folder 27 A Program of X-Ray Astronomy from Sounding Rockets Using Large Area Counters, 1965
- Box 3 of 84 Folder 28 A Program for Measurement of Fluorescent X-Rays from the Lunar Surface from a Lunar Orbiting Vehicle, 1965
- Box 3 of 84 Folder 29 Experiment to Measure the Celestial X-Ray Background During the Voyager Mission to Mars, 1965
- Box 3 of 84 Folder 30 A Program for Using High Angular Resolution Studies of Celestial X-Ray Sources Using Sounding Rockets, 1965
- Box 3 of 84 Folder 31 Rapid Recordings of X-Ray Spectra and Images of Solar Flares Using a Spectrographic X-Ray Telescope on Apollo Telescope Mount, 1966
- Box 3 of 84 Folder 32 The Investigation of Cosmic X-Ray Sources Using a High Resolution X-Ray Telescope on the ATM, 1966
- Box 3 of 84 Folder 33 Spectrographic X-Ray Telescope Flare Equipment for ATM, 1966
- Box 3 of 84 Folder 34 Preliminary Scientific Specifications for the ATM Experiment, 1966
- Box 3 of 84 Folder 35 A Design Definition of a Large Orbiting X-Ray Telescope Facility, 1969
- Box 3 of 84 Folder 36 Solar X-Ray Imaging Spectrometer System for the OSO-I Pointed Section, 1969
- Box 3 of 84 Folder 37 A Study of Specular X-Ray Reflection from Polished Surfaces, 1969
- Box 3 of 84 Folder 38 Apollo Telescope Mount, 1970
- Box 3 of 84 Folder 39 5 Arc Second Soft X-Ray Imaging Telescope on a Small Satellite, 1970
- Box 3 of 84 Folder 40 Continuation of Cosmic X-Ray Studies from Rockets with Focusing Optics, 1971

- Box 3 of 84 Folder 41 To Study the UV Spectra of Selected Galactic X-Ray Sources, 1972
- Box 3 of 84 Folder 42 Continue Investigating the X-Ray Emission from Solar Flares and Active Regions, 1972
- Box 3 of 84 Folder 43 Far Infrared Emission from X-Ray Sources using High Accuracy Position Measurements, 1972
- Box 3 of 84 Folder 44 A Planetary and Cosmic X-Ray Experiment MJS-77, 1972

Subseries 2d: Clippings: 1962-1973

This subseries consists of press releases and newspaper clippings covering both discoveries made by ASE scientists and financial and personnel matters relating to ASE.

- Box 3 of 84 Folder 45 Swedish Newspaper about ASE Rocket Flights, 1962
- Box 3 of 84 Folder 46 1962-1966
- Box 3 of 84 Folder 47 1966-1967
- Box 3 of 84 Folder 48 1968-1970
- Box 3 of 84 Folder 49 1970-1973

Subseries 2e: Research Files: 1958-1963, 1965, 1967-1968, and undated

Assorted materials including notebooks, loose notes, memoranda and correspondence related to research and experiments undertaken by ASE in the early 1960s. Some of the folders relate to named experiments, such as Cambridge Satellite, while some cannot be associated with any specific investigation.

Box 4

- Box 4 of 84 Folder 1 Solar Winds, 1958-1959
- Box 4 of 84 Folders 2-3 Van Allen Layer Data, 1959-1960
- Box 4 of 84 Folder 4 Medical X-Ray Project, 1960
- Box 4 of 84 Folder 5 Particle Detectors, 1960
- Box 4 of 84 Folder 6 H. Friedman, 1960
- Box 4 of 84 Folder 7 Proton Alpha, 1960-1961
- Box 4 of 84 Folder 8 Lunar X-Rays, 1961

Box 4 of 84 Folder 9 Lunar X-Rays C.R.C. Experiment, 1961

Box 4 of 84 Folder 10 R. Giacconi a + P, 1961

Box 4 of 84 Folder 11 SA16 Solar Observatory, 1961

Box 4 of 84 Folder 12 Notes on Early X-Ray Searches, c. 1961

Box 4 of 84 Folder 13 Lunar X-Rays, B. Rossi Calculations, c. 1961

Box 4 of 84 Folder 14 Icosahedron Experiment, c. 1961

Box 4 of 84 Folder 15 Varied Experiments, c. 1961

Box 4 of 84 Folder 16 Eccentric Orbit Satellite, c. 1961

Box 4 of 84 Folder 17 Prompt X-Ray Detectors, c. 1961

Box 4 of 84 Folder 18 Harvard Collimator, 1962

Box 4 of 84 Folder 19 Rocket Launches, 1962

Box 4 of 84 Folder 20 Sco-1 Star chart, c. 1962

Box 4 of 84 Folder 21 Starad Data FTV 1401, 1962

Box 4 of 84 Folder 22 Swedish Rockets, 1962

Box 4 of 84 Folder 23 Cambridge Satellite, 1961-1963

Box 4 of 84 Folders 24-25 Cambridge Satellite Notebook, 1961-1963

Box 4 of 84 Folder 26 Blue Scout Orbital, 1962-1963

Box 4 of 84 Folder 27 Binaries, Galactic Sources, undated

Box 4 of 84 Folder 28 Her X-1 and Cen X-3, 1965

Box 4 of 84 Folder 29 Cygnus Materials, 1967-1968

Box 4 of 84 Folder 30 Gamma Rays, undated

Box 4 of 84 Folder 31 Mass Absorption Coefficients for Materials Suitable in Soft X-Ray Work, undated

Box 4 of 84 Folder 32 Micro Second Star, undated

Box 4 of 84 Folder 33 Proton Spectrometer, undated

Box 4 of 84 Folders 34-35 Rossi & Olbert Course, undated

Box 5

- Box 5 of 84 Folder 1 Transistors, undated
- Subseries 2f: Photos: 1962, 1965, 1968, 1972-1973, and undated
- This subseries consists of photos of various experiments undertaken by ASE scientists. Of interest are some of the earliest x-ray photos taken of the sun, using a focusing x-ray telescope in 1965.
- Box 5 of 84 Folder 2 Radiation Experiment Model 11 AF 19(628)-252, 1962
- Box 5 of 84 Folder 3 Electrostatic Analyzer, 1962
- Box 5 of 84 Folder 4 Solar X-Ray Images, 1965
- Box 5 of 84 Folder 5 S-17 X-Ray Astronomy Experiment, 1965
- Box 5 of 84 Folder 6 Rocket Launch, 1968
- Box 5 of 84 Folder 7 Solar X-Ray Images, 1969
- Box 5 of 84 Folder 8 Assorted Projects, 1972, 1973, and undated
- Box 5 of 84 Folder 9 Apollo Telescope Mount, 1973
- Box 5 of 84 Folder 10 Rocket-Based X-Ray Detector, undated
- Box 5 of 84 Folder 11 ATM Solar X-Ray Picture, undated
- Box 5 of 84 Folder 12 Space Lab X-Ray Telescope, undated
- Box 5 of 84 Folder 13 Sounding Rocket, undated
- Box 5 of 84 Folder 14 Unidentified Project, undated
- Subseries 2g: Patents: 1960-1967
- This subseries consists of patents on instruments developed by ASE scientists. Among the patents is number 3,143,651: "An X-ray reflection collimator adapted to focus X-radiation directly on a detector" which is the basis for the modern x-ray telescope.
- Box 5 of 84 Folder 15 1960-1967
- Subseries 2h: Video: 1973
- This subseries contains one video of the solar x-ray corona taken in 1973. It was transferred from 16mm to video in 1990.
- Box 5 of 84 Folder 16 The Solar X-Ray Corona, 1973

Subseries 2i: Printouts: 1962

This subseries contains one item, the original telemetry reading from the 1962 rocket flight that first detected extrasolar x-rays. The readout is wrapped around a cardboard tube and covered with Mylar.

Box 5 of 84

Telemetry Printout 1962 (in back of box)

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Series 3: Uhuru (X-Ray Explorer, SAS-A), 1963-1980

This series covers Giacconi's involvement with the Uhuru satellite project, also known as X-Ray Explorer or SAS-A. The series contains proposals, project reports, journal publications about Uhuru itself and the data resulting from it, memoranda, correspondence, news clippings and photographs. This series covers the complete development of the Uhuru satellite from its proposal in 1964 by Giacconi, through its construction and launch in 1970, successful operation from 1970-1974, analysis of the x-ray data, and its final celebration at a memorial symposium in 1980.

Box 5

Subseries 3a: Correspondence: 1963-1979

This subseries contains correspondence covering all aspects of Uhuru's conception, construction, operation and analysis. The bulk of the correspondence covers the period from 1964-1977.

- Box 5 of 84 Folder 17 NASA, 1963-1967
- Box 5 of 84 Folder 18 Optical Observations in Coordination with Uhuru, 1969-1971
- Box 5 of 84 Folder 19 General, 1970-1971
- Box 5 of 84 Folder 20 Transmitter Problem with SAS-A and SAS-B, 1972
- Box 5 of 84 Folder 21 NASA Contracts, 1970-1973

Box 6

- Box 6 of 84 Folder 1 Observations, 1971-1973
- Box 6 of 84 Folder 2 General, 1972-1973
- Box 6 of 84 Folder 3 Advanced Studies and Guest Investigator Program, 1971-1974
- Box 6 of 84 Folder 4 NASA Annual Spacecraft Review, 1972-1974
- Box 6 of 84 Folder 5 History and Purpose, 1966-1967, 1971, 1977
- Box 6 of 84 Folder 6 Observations, 1972-1978
- Box 6 of 84 Folder 7 General, 1974-1979
- Box 6 of 84 Folder 8 Walter Sullivan, 1977

Subseries 3b: Memoranda: 1963-1979

This subseries contains both internal ASE memoranda, memoranda between ASE and NASA, and memoranda from the Harvard-Smithsonian Center for Astrophysics. The memoranda up until 1970 primarily concern construction and contract details between ASE and NASA. Memoranda from 1971 to

1979 primarily concern data reduction efforts from the Uhuru project, with a secondary emphasis on continued funding of the project.

- Box 6 of 84 Folder 9 April 1963-August 1966
- Box 6 of 84 Folder 10 NASA Contract, 1966-1967
- Box 6 of 84 Folder 11 August 1966-December 1966
- Box 6 of 84 Folder 12 Minutes from Weekly Meetings, 1966-1967
- Box 6 of 84 Folder 13 January 1967-February 1967
- Box 6 of 84 Folder 14 February 1967-October 1967
- Box 6 of 84 Folder 15 1970-1973
- Box 6 of 84 Folder 16 1973-1979

Subseries 3c: Publications: 1965-1977

This subseries consists primarily of scholarly publications about the scientific findings based on the data from the Uhuru project. A much smaller set of publications, dating from 1965-1968, covers the construction and intended uses of the Uhuru satellite. The subseries is arranged generally in chronological order, with one, four-folder set from 1973-1974 collected and arranged with an index by Dr. Giacconi.

- Box 6 of 84 Folder 17 List of Publications, 1971-1977
- Box 6 of 84 Folder 18 Articles about Extragalactic X-Ray Sources, 1965-1971
- Box 6 of 84 Folders 19-20 An X-Ray Explorer to Survey Galactic and Extragalactic Sources, 1967
- Box 6 of 84 Folder 21 Review of the SAS-A Experiment Program, 1968
- Box 6 of 84 Folder 22 The X-Ray Explorer Experiment, 1968
- Box 6 of 84 Folder 23 Discovery of Periodic X-Ray Pulsations in Cen X-3 from Uhuru, 1971
- Box 6 of 84 Folder 24 Uhuru Catalog of X-Ray Sources, 1971
- Box 6 of 84 Folder 25 The Uhuru X-Ray Instrument, 1971
- Box 6 of 84 Folder 26 Refereed Papers, 1971
- Box 6 of 84 Folder 27 Evidence for the Binary Nature of Cen X-3 from Uhuru X-Ray Observations, 1972

- Box 6 of 84 Folder 28 The Uhuru Data Reduction and Analysis System, 1972
- Box 6 of 84 Folder 29 Uhuru Star Aspect Sensor, 1972
- Box 6 of 84 Folder 30 Astrophysical Journal - The Uhuru Catalog of X-Ray Sources, 1972
- Box 6 of 84 Folder 31 Uhuru Catalog of X-Ray Sources, 1973

Box 7

- Box 7 of 84 Folder 1 The Uhuru Satellite for Encyclopedia Britannica, 1973
- Box 7 of 84 Folder 2 Further X-Ray Observations of Hercules X-1 from Uhuru, 1973
- Box 7 of 84 Folder 3 1973
- Box 7 of 84 Folder 4 3rd Uhuru Catalog of X-Ray Sources, 1974
- Box 7 of 84 Folders 5-7 1974
- Box 7 of 84 Folder 8 Cen X-3 Pulsations, 1974
- Box 7 of 84 Folder 9 Small Astronomy Satellite A, Uhuru Data Analysis Final Report, 1974
- Box 7 of 84 Folder 10 Advanced Studies and Guest Investigators Reports, 1974-1975
- Box 7 of 84 Folder 11 Uhuru and the 4U Catalog Draft, 1977
- Box 7 of 84 Folder 12 Uhuru and the 4U Catalog, 1977
- Box 7 of 84 Folder 13 Short-Term Time Variability of Cygnus X-1, 1977
- Box 7 of 84 Folder 14 Evidence for X-Ray Emission from Super Clusters of Galaxies Determined From Uhuru, 1977
- Box 7 of 84 Folder 15 Evidence of X-Ray Emission from Class II Clusters Draft, undated

Series 3d: Proposals: 1964-1977

This subseries contains proposals that relate to the construction and launch of the Uhuru satellite and the later analysis of the data that it recorded during its 4-year lifespan.

- Box 7 of 84 Folder 16 An X-Ray Explorer to Survey Galactic and Extragalactic Sources, 1964
- Box 7 of 84 Folder 17 Project Proposal for the Explorer X-Ray Astronomy Observer, 1966
- Box 7 of 84 Folder 18 Design Specifications, 1966

- Box 7 of 84 Folder 19 Applied Physics Laboratory, 1967
- Box 7 of 84 Folder 20 Technical Proposal for the X-Ray Explorer Experiment Phase II, 1967
- Box 7 of 84 Folder 21 MIT Proposal for SAS-B Satellite, 1968
- Box 7 of 84 Folder 22 Expanded Operations X-Ray Explorer Experiment, 1970
- Box 7 of 84 Folder 23 Observing Plan X-Ray Explorer Experiment, 1970
- Box 7 of 84 Folder 24 Extended Objectives for the Uhuru Satellite, 1971
- Box 7 of 84 Folder 25 Uhuru Advanced Studies and Guest Investigator Program, 1972
- Box 7 of 84 Folder 26 Uhuru Advanced Studies and Guest Investigator Program, 1973
- Box 7 of 84 Folder 27 Data Analysis Development, 1973-1977
- Box 7 of 84 Folder 28 Addition to the Data Reduction Effort, 1975

Subseries 3e: Reports: 1966-1979

This subseries contains progress reports on various aspects of the Uhuru project, both on its construction and on the progress of the reduction of its data.

- Box 7 of 84 Folder 29 Progress Reports - Explorer Project Phase 1, 1966-1967
- Box 7 of 84 Folder 30 Progress Reports, 1971-1974

Box 8

- Box 8 of 84 Folder 1 Monthly Progress Reports on Uhuru Data Reduction, 1974-1978
- Box 8 of 84 Folder 2 Final Report - Uhuru Data Reduction, 1979

Subseries 3f: Clippings and Press Releases: 1970-1975

This subseries contains popular press clippings about the Uhuru launch and the associated discoveries stemming from the data recorded by the satellite.

- Box 8 of 84 Folder 3 Press Releases, 1970-1971, 1975, 1977
- Box 8 of 84 Folder 4 NASA Selected Press Clippings, 1971
- Box 8 of 84 Folder 5 Clippings, 1971-1973

Subseries 3g: Uhuru Memorial Symposium: 1980-1981

This subseries contains correspondence and publications arising from the Uhuru Memorial Symposium on the past, present and future of x-ray astronomy, held on the 10th anniversary of the launching of the Uhuru satellite.

Box 8 of 84 Folder 6 Correspondence, 1980-1981

Box 8 of 84 Folder 7 Publications, 1981

Box 8 of 84 Folder 8 Photos, 1980

Box 8 of 84 Folder 9 Proceedings, 1981

Subseries 3h: Research Files: 1971-1973

This subseries contains assorted handwritten notes and a research notebook on the Uhuru satellite.

Box 8 of 84 Folder 10 Research Notebook, 1971

Box 8 of 84 Folder 11 Cen X-3 Plot, 1972

Box 8 of 84 Folder 12 Notes, 1973

Subseries 3i: Budgetary Records: 1974-1979

This subseries contains records concerning the budget and funding for the Uhuru data reduction project.

Box 8 of 84 Folder 13 Uhuru Data Reduction, 1974-1979

Subseries 3j: Photos: 1965, 1970-1973, and undated

This subseries contains photos of the various components that were used to make the Uhuru satellite.

Box 8 of 84 Folder 14 Satellite Components, 1965

Box 8 of 84 Folder 15 Assorted Photographs, 1970-1973 and undated

Box 8 of 84 Folder 16 Photos. undated

Box 8 of 84 Folders 17-18 Assorted Slides, undated

Subseries 3k: Video: undated

This subseries consists of a single videotape containing a short documentary about the construction and launch of the Uhuru Satellite.

Box 8 of 84 Folder 19 Africa and the SAS-A Satellite, undated

Box 83

Subseries 3I: Computer Output: 1977, and undated

This subseries contains computer generated printouts arising from analysis of data from the Uhuru satellite. It consists of one folder of computer printouts and one large plot of x-ray observations.

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Folder 1 Printouts 1977, stored as oversize item in this box.

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Plot of X-Ray Observations (blueprint storage tube)

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Series 4: Harvard-Smithsonian Center for Astrophysics (CFA), 1971-1988

This series covers Giacconi's tenure as the Associate Director of High Energy Astrophysics at the Harvard-Smithsonian Center for Astrophysics (CFA). The series contains correspondence, memoranda, project files, proposals, administrative records and publications. This series illuminates all aspects of the Center for Astrophysics from its formation in 1973 to Giacconi's departure in 1981. Both administrative and scientific work is represented. Extensive memoranda and administrative records relate to the development and operation of the Center. There are also numerous scientific project files, rejected proposals and a run of preprint publications from the High Energy Astrophysics Division (HEAD) from 1973 through 1988.

Box 8

Subseries 4a: Correspondence: 1971-1981, 1984

This subseries contains correspondence relating to the operation of the Center and scientific investigation. The folders are ordered alphabetically by either the primary correspondent or the topic of the correspondence. There is extensive correspondence between Giacconi and George Field, Director of the CFA. There is also significant correspondence with scientists wanting to visit and work at the Center, either as part of the Visiting Scientists program or as postdoctoral fellows. Two folders of correspondence cover Giacconi's role as a referee for journal papers.

Box 8 of 84	Folder 20 re: Yoram Avni, 1978
Box 8 of 84	Folder 21 re: Neta Bahcall, 1975, 1979
Box 8 of 84	Folder 22 Ball Brothers, 1973-1975
Box 8 of 84	Folder 23 re: George Blumenthal, 1975
Box 8 of 84	Folder 24 Paul Boynton, 1975-1977
Box 8 of 84	Folder 25 re: Claude Canizares, 1974, 1977-1980
Box 8 of 84	Folder 26 re: Alfonso Cavaliere, 1974
Box 8 of 84	Folder 27 re: Richard Chase, 1980
Box 8 of 84	Folder 28 Chinese Astronomers, 1979-1981, 1984
Box 8 of 84	Folder 29 re: Lynn Cominsky, 1978, 1980
Box 8 of 84	Folder 30 Phyllis DeFano, 1980
Box 8 of 84	Folder 31 M. Elvis, 1979
Box 8 of 84	Folder 32 Kenton Evans, 1976, 1978
Box 8 of 84	Folder 33 G. Fabbiano, 1976-1977
Box 8 of 84	Folder 34 re: Andrew Fabian, 1980-1981

Box 8 of 84 Folder 35 Daniel Fabricant, 1978

Box 8 of 84 Folder 36 R. Feinberg 1979

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Box 9 of 84 Folder 1 George Field, 1973

Box 9 of 84 Folders 2-3 George Field, 1974

Box 9 of 84 Folder 4 George Field, 1975

Box 9 of 84 Folder 5 George Field, 1976

Box 9 of 84 Folder 6 George Field, 1977

Box 9 of 84 Folders 7-8 George Field, 1978

Box 9 of 84 Folder 9 George Field, 1979

Box 9 of 84 Folder 10 George Field, 1980

Box 9 of 84 Folder 11 George Field, 1981

Box 9 of 84 Folder 12 Christine Forman Award Nominations, 1976-1979

Box 9 of 84 Folder 13 Gamma Ray Review, 1973

Box 9 of 84 Folder 14 re: Gordon Garmire, 1979-1980

Box 9 of 84 Folder 15 John Gerdes, 1975, 1981

Box 9 of 84 Folder 16 Isabella Gioia, 1980-1981

Box 9 of 84 Folder 17 Paolo Giommi, 1980

Box 9 of 84 Folder 18 Paul Gorenstein Supergrade Promotion, 1980

Box 9 of 84 Folder 19 Robert Hansman, 1977

Box 9 of 84 Folder 20 Harvard Recommendations, 1975, 1977, 1979

Box 9 of 84 Folder 21 P. C. Hedgerock, 1978

Box 9 of 84 Folder 22 re: Richard C. Henry, 1977

Box 9 of 84 Folder 23 Richard Hirsh - History of X-Ray Astronomy, 1976-1977, 1979

Box 9 of 84 Folder 24 re: Steve Holt, 1976

Box 9 of 84 Folder 25 Erik Hog, 1977

Box 9 of 84 Folder 26 Steven Kahn, 1980

Box 9 of 84 Folder 27 Jan Kallne, 1980-1981

Box 9 of 84 Folder 28 Ludwig Katz, 1975

Box 9 of 84 Folder 29 re: Edwin Kellogg, 1979

Box 9 of 84 Folder 30 re: Robert Krakow, 1973-1974

Box 9 of 84 Folder 31 re: Bill Kraushaar, 1980

Box 9 of 84 Folder 32 re: Donald Lamb, 1977-1978, 1980

Box 9 of 84 Folder 33 re: Fred K. Lamb, 1977-1980

Box 9 of 84 Folder 34 Robert Leach, 1974-1975, 1978

Box 9 of 84 Folder 35 re: Walter Levin, 1974

Box 9 of 84 Folder 36 re: E. Mathieson, 1976-1977

Box 9 of 84 Folder 37 re: Terry Matilsky, 1976, 1980

Box 9 of 84 Folder 38 Mt. Hopkins, 1973-1977

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Box 10 of 84 Folder 1 National Medal of Science, 1973-1974, 1976

Box 10 of 84 Folder 2 re: John Naugle, 1976

Box 10 of 84 Folder 3 re: Dan Parsignault, 1978

Box 10 of 84 Folder 4 Postdoctoral Fellows, 1978-1981

Box 10 of 84 Folder 5 Ken Pounds - Cyg X-1, 1975

Box 10 of 84 Folder 6 re: Steve Pravdo, 1979

Box 10 of 84 Folder 7 Prizes, 1974, 1979-1980

Box 10 of 84 Folder 8 re: Saul Rappaport, 1977, 1980

Box 10 of 84 Folder 9 re: Ed Reeves, 1980

Box 10 of 84 Folders 10-11 Refereed Papers, 1971-1972, 1974-1979

Box 10 of 84 Folder 12 re: George Ricker, 1978

Box 10 of 84 Folder 13 Luis Rodriguez, 1974-1977

- Box 10 of 84 Folder 14 Wallace Sargent, 1977
- Box 10 of 84 Folder 15 Herbert Schnopper, 1976-1977
- Box 10 of 84 Folder 16 re: Peter Serlmitos, 1978
- Box 10 of 84 Folder 17 Fred Seward, 1975-1977
- Box 10 of 84 Folder 18 re: Sabatino Sofia, 1977-1979
- Box 10 of 84 Folder 19 Start of the Center for Astrophysics, 1972-1973
- Box 10 of 84 Folder 20 re: Ken Swartz, 1980
- Box 10 of 84 Folder 21 re: John Timothy, 1977
- Box 10 of 84 Folder 22 M. Ulmer, 1976
- Box 10 of 84 Folder 23 Ed van den Heuvel, 1977
- Box 10 of 84 Folder 24 re: Nissim Vidal, 1976
- Box 10 of 84 Folder 25 Visiting Scientists, 1977-1981
- Box 10 of 84 Folder 26 Visiting Scientists, 1980-1981
- Box 10 of 84 Folder 27 Warner/Pierce Prize Nominations, 1973-1975, 1980-1981
- Box 10 of 84 Folder 28 Waterman Award Nominations, 1976-1979
- Box 10 of 84 Folder 29 Trevor Weekes re: Gamma Ray Proposal, 1977
- Box 10 of 84 Folder 30 re: Martin Weisskopf, 1975-1977
- Box 10 of 84 Folder 31 re: Robert Wilson, 1977

Subseries 4b: Memoranda: 1973-1981

This subseries contains memoranda primarily relating to the running of the Center for Astrophysics. The memoranda are ordered by topic, and chronologically within the topic. There is extensive coverage of the Associate Directors' Meetings from 1974-1981. Other topics with significant coverage are the SAO Executive Committee and the SAO Computer System.

- Box 10 of 84 Folder 32 Abell Clusters, 1977
- Box 10 of 84 Folder 33 Archiving of Computer Data, 1981
- Box 10 of 84 Folder 34 Associate Directors' Meetings, 1973

Box 10 of 84 Folder 35 Associate Directors' Meetings Minutes, January-July 1974

Box 10 of 84 Folder 36 Associate Directors' Meetings, July 1974-June 1975

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Box 11 of 84 Folders 1-2 Associate Directors' Meetings, July 1975-May 1977

Box 11 of 84 Folder 3 Associate Directors' Meetings, September 1977-December 1978

Box 11 of 84 Folders 4-5 Associate Directors, 1979-1980 (Folders 1-2 of 3)

Box 11 of 84 Folder 6 Associate Directors, 1979-1980 (Folder 3 of 3)

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Box 11 of 84 Folder 10 Budget Projections, 1974

Box 11 of 84 Folder 11 CFA Ad Hoc Review Committee, 1979-1980

Box 11 of 84 Folder 12 CFA Board, 1980

Box 11 of 84 Folders 13-14 CFA Structure, 1980

Box 11 of 84 Folder 15 Challinor Visit, 1974, 1979

Box 11 of 84 Folder 16 Core Grants, 1979-1981

Box 11 of 84 Folder 17 EEO Stats, 1980

Box 11 of 84 Folders 18-19 Executive Committee, 1978

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Box 12 of 84 Folder 3 Executive Committee, 1981

Box 12 of 84 Folder 4 General, 1973-1977

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Box 12 of 84 Folder 6 General, 1978

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Box 12 of 84 Folder 10 Giacconi Hiring, 1972-1973

Box 12 of 84 Folder 11 John Gregory, 1973-1975

Box 12 of 84 Folder 12 Herb Gursky/OIR Division, 1977-1981

Box 12 of 84 Folder 13 HEAD Memoranda, 1979

Box 12 of 84 Folder 14 Nova Program "Darkness Visible," 1981

Box 12 of 84 Folder 15 Paper Preparations, 1979

Box 12 of 84 Folder 16 Radio Interview, 1975

Box 12 of 84 Folder 17 SAO Computer System, 1974-1976

Box 12 of 84 Folders 18-20 SAO Computer System, 1977

Box 12 of 84 Folder 21 SAO Computer System, 1978

Box 12 of 84 Folder 22 SAO Council, 1980-1981

Box 12 of 84 Folder 23 SAO Visiting Committee, 1977

Box 12 of 84 Folder 24 S.I. General, 1978-1981

Box 12 of 84 Folder 25 Staff, 1977-1978

Subseries 4c: Administrative Records: 1973-1981

This subseries contains administrative records touching on the financial and personnel issues of the Center. It contains funding requests, HEAD budget materials, travel vouchers. There are also records relating to personnel evaluations and promotions including Giacconi's own performance reviews.

Box 12 of 84 Folder 26 HEAD Budget, 1973

Box 12 of 84 Folder 27 HEAD Budget, 1974

Box 12 of 84 Folder 28 HEAD Budget, 1975

Box 12 of 84 Folder 29 HEAD Budget, 1976

Box 12 of 84 Folder 30 HEAD Budget, 1977

Box 12 of 84 Folder 31 HEAD Budget, 1979

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Box 13 of 84	Folder 1 HEAD Budget, 1980
Box 13 of 84	Folder 2 Contracts, Grants and Proposals, 1979-1981
Box 13 of 84	Folder 3 Five-Year Forecast, 1974
Box 13 of 84	Folder 4 Five-Year Preplanning Document, 1980
Box 13 of 84	Folder 5 Funding Requests, 1974-1975
Box 13 of 84	Folder 6 Funding Requests, 1975
Box 13 of 84	Folder 7 Funding Requests, 1976
Box 13 of 84	Folder 8 Funding Requests, 1978
Box 13 of 84	Folder 9 Funding Requests, 1979
Box 13 of 84	Folder 10 Funding Requests, 1980
Box 13 of 84	Folder 11 Giacconi Financial Reporting, 1976, 1979-1981
Box 13 of 84	Folder 12 Giacconi Hiring and Performance Reviews, 1973-1974, 1979-1981
Box 13 of 84	Folder 13 Institutional Funds, 1974-1975
Box 13 of 84	Folder 14 Institutional Funds, 1976
Box 13 of 84	Folder 15 Institutional Funds, 1977
Box 13 of 84	Folder 16 HEAD Management Information Reports, 1980-1981
Box 13 of 84	Folder 17 Mt. Hopkins Observatory Monthly Reports, 1973-1976
Box 13 of 84	Folder 18 Overseers Committee, 1974-1975
Box 13 of 84	Folder 19 Performance Evaluations, 1980
Box 13 of 84	Folder 20 Personnel List, 1981
Box 13 of 84	Folder 21 Personnel Review Meetings ,1973
Box 13 of 84	Folder 22 Fiscal Projections, 1981
Box 13 of 84	Folder 23 Promotions, 1977
Box 13 of 84	Folder 24 Promotions, 1980
Box 13 of 84	Folder 25 Directory of Smithsonian Fellows, 1980
Box 13 of 84	Folder 26 Smithsonian Staff Handbook, 1981

- Box 13 of 84 Folder 27 Travel Vouchers, 1976
- Box 13 of 84 Folder 28 Travel Vouchers, 1978-1979
- Box 13 of 84 Folder 29 Travel Vouchers, 1980-1981

Subseries 4d: Projects and Grants: 1971-1981

This subseries contains project files of various scientific investigations undertaken by CFA/SAO while Giacconi was there. The files contain project proposals, progress reports, correspondence, memoranda, budgetary materials and contract documents. One project file "Cosmic X-Ray Studies from Rockets with Focusing Optics" dates from before Giacconi's start, but continues under his direction. Another, the ANS project, began at ASE but moved over to CFA with Giacconi and his colleagues.

- Box 13 of 84 Folder 30 Aerobee 350 Rocket Payload Progress Reports, 1975-1976
- Box 13 of 84 Folder 31 Experiment Definition and Integration Studies for the Accommodation of an Aires Rocket X-Ray Telescope Payload on Spacelab/ Shuttle
- Box 13 of 84 Folder 32 ANS Contracts, 1970-1978
- Box 13 of 84 Folder 33 ANS Hard X-Ray Experiment Presentation, 1971

Box 14

- Box 14 of 84 Folder 1 Crystal Selection for the ANS X-Ray Spectrometer, 1971
- Box 14 of 84 Folder 2 ANS Program Progress Reports 1-5, 1971
- Box 14 of 84 Folder 3 ANS Program Progress Reports 6-11, 1971
- Box 14 of 84 Folder 4 ANS Program Progress Reports 12-16, 1971-1972
- Box 14 of 84 Folder 5 ANS Memoranda, 1971-1974, 1976
- Box 14 of 84 Folder 6 ANS Correspondence, 1971-1974, 1977
- Box 14 of 84 Folder 7 ANS HXX Checkout Equipment Functional Description, 1972
- Box 14 of 84 Folder 8 ANS HXX Critical Design Review Presentation, 1972
- Box 14 of 84 Folder 9 ANS Program Progress Reports, 1972-1978
- Box 14 of 84 Folder 10 ANS Prelaunch Data Analysis Proposal, 1973
- Box 14 of 84 Folder 11 ANS X-Ray Sky Map, 1973
- Box 14 of 84 Folder 12 ANS Budgetary Materials, 1973-1977

- Box 14 of 84 Folder 13 ANS Press Release, 1974
- Box 14 of 84 Folder 14 ANS Hard X-Ray Data Analysis Proposals, 1974-1977
- Box 14 of 84 Folder 15 ANS Project Authorizations, 1974-1978
- Box 14 of 84 Folder 16 ANS Data Analysis Final Report, 1978
- Box 14 of 84 Folder 17 ANS Promotional Card, undated
- Box 14 of 84 Folder 18 Bragg Crystal X-Ray Spectrometer, 1979-1980
- Box 14 of 84 Folder 19 A Measurement of the Cosmic-Ray Energy Spectrum from 1011 to 1016 eV, 1975
- Box 14 of 84 Folders 20-21 Cosmic X-Ray Studies from Rockets with Focusing Optics, 1971-1976
- Box 14 of 84 Folders 22-24 Construction of a High-Resolution, Cylindrical Crystal Spectrometer Suitable for Line Shape Diagnostics of X-Rays from Hot Plasmas Proposals, 1976-1981
- Box 14 of 84 Folder 25 Construction of a High-Resolution Cylindrical, Crystal Spectrometer for Line Shape Diagnostics of X-Rays from Hot Plasmas Contracts and Funding, 1976-1981
- Box 14 of 84 Folder 26 Construction of a High-Resolution Cylindrical, Crystal Spectrometer for Line Shape Diagnostics of X-Rays from Hot Plasmas Progress Reports, 1976-1981
- Box 14 of 84 Folder 27 Gamma Ray Observation, 1973
- Box 14 of 84 Folder 28 Grazing Incidence Telescope for X-Ray Astronomy using Sounding Rockets, 1974-1979
- Box 15
- Box 15 of 84 Folder 1 High Resolution Imager (HRI) for the Roentgen Satellite (ROSAT) Proposals, 1981
- Box 15 of 84 Folder 2 High Resolution Imager (HRI) for the Roentgen Satellite (ROSAT) Memoranda and Correspondence, 1980-1981
- Box 15 of 84 Folder 3 High Resolution X-Ray Detector Development, 1980
- Box 15 of 84 Folder 4 Continuation of a Sounding Rocket Program of X-Ray Astronomy with Large Area Collectors of High Angular Resolution, 1974
- Box 15 of 84 Folder 5 LAMAR Proposals, 1978-1981
- Box 15 of 84 Folder 6 LAMAR Memoranda, 1978-1981

Box 15 of 84 Folder 7 LAMAR Presentation, 1980

Box 15 of 84 Folder 8 LAMAR Contracts and Authorizations, 1980-1981

Box 15 of 84 Folder 9 LAMAR Correspondence, 1980-1981

Box 15 of 84 Folder 10 LAMAR Progress Reports, 1980-1981

Box 15 of 84 Folder 11 LAMAR Schematics, 1980

Box 15 of 84 Folder 12 LAMAR Sounding Rocket Program Proposals, 1974-1981

Box 15 of 84 Folder 13 LAMAR Sounding Rocket Program Project Authorizations, 1976-1980

Box 15 of 84 Folder 14 LAMAR Sounding Rocket Program Memoranda, 1977-1980

Box 15 of 84 Folder 15 LAMAR Sounding Rocket Program Progress Reports, 1979-1981

Box 15 of 84 Folder 16 Development of a Low-light Imaging System for Cosmological Investigations, 1975-1976

Box 15 of 84 Folder 17 Large Space Telescope (LST) Proposals, 1975

Box 15 of 84 Folder 18 Large Space Telescope (LST) Memoranda, 1975-1977

Box 15 of 84 Folder 19 Meteoroid Mass Flux Studies, 1975-1979

Box 15 of 84 Folders 20-21 SAS-C Data Reduction, 1974-1981

Box 15 of 84 Folder 22 Development of a Scintillating Imaging Proportional Counter for Applications in X-Ray Astronomy, 1975-1977

Box 15 of 84 Folder 23 Single Photon Imaging Detector Memoranda, 1976-1978

Box 15 of 84 Folders 24-25 Single Photon Imaging Detector Proposals, 1976-1978

Box 15 of 84 Folder 26 Single Photon Imaging Detector Authorizations and Budgets, 1976-1979

Box 15 of 84 Folder 27 Single Photon Imaging Detector Correspondence, 1977-1978

Box 15 of 84 Folder 28 Single Photon Imaging Detector Reports, 1977-1979

Box 15 of 84 Folder 29 Sounding Rocket Experiment to Study the Diffuse Soft X-Ray Background Proposals, 1974-1980

Box 16

Box 16 of 84 Folder 1 Sounding Rocket Experiment to Study the Diffuse Soft X-Ray Background Contracts and Authorizations, 1978-1980

- Box 16 of 84 Folder 2 Sounding Rocket Experiment to Study the Diffuse Soft X-Ray Background Progress Reports, 1979-1981
- Box 16 of 84 Folder 3 Transient Source Survey Explorer Study, 1976-1977
- Box 16 of 84 Folder 4 Transmission Gratings and Optical Constants in the Vacuum UV and X-Ray Region, 1980-1981
- Box 16 of 84 Folder 5 X-Ray Imaging Detectors with Negative Electron Affinity Photocathodes Proposals, 1975-1976, 1980
- Box 16 of 84 Folder 6 X-Ray Imaging Detectors with Negative Electron Affinity Photocathodes Memoranda, 1976-1979, 1981
- Box 16 of 84 Folder 7 X-Ray Imaging Detectors with Negative Electron Affinity Photocathodes Project Authorizations, 1976-1980
- Box 16 of 84 Folder 8 X-Ray Imaging Detectors with Negative Electron Affinity Photocathodes Correspondence, 1977-1980
- Box 16 of 84 Folder 9 X-Ray Imaging Detectors with Negative Electron Affinity Photocathodes Reports, 1980
- Box 16 of 84 Folder 10 Grants: Jan Kallne, 1980
- Box 16 of 84 Folder 11 Grants: Studies and Observations of UV and X-Ray Sources, 1979
- Subseries 4e: Proposals: 1972-1981
- This subseries contains rejected project proposals from 1972 through 1981.
- Box 16 of 84 Folder 12 To Investigate the Scattering and Extinction of Sunlight in the Atmosphere of Venus, 1972
- Box 16 of 84 Folder 13 High Resolution X-Ray Astronomy, 1973
- Box 16 of 84 Folder 14 Systematic Experimental and Theoretical Program to Improve the Angular Resolution of X-Ray Telescopes, 1973
- Box 16 of 84 Folder 15 Lunar Data Analysis and Synthesis, 1973
- Box 16 of 84 Folder 16 Apollo Soyuz Test Program Proposals, 1973
- Box 16 of 84 Folder 17 High-Resolution Optical Spectroscopy of Comet Kohutek, 1973
- Box 16 of 84 Folder 18 Celestial X-Ray Sensor for Studies of the Venus Atmosphere and Localization of Gamma Bursts, 1973
- Box 16 of 84 Folder 19 Hard X-Ray Burst Detector with High Angular Resolution, 1973
- Box 16 of 84 Folder 20 XUV Telescope Sounding Rocket Survey, 1974

- Box 16 of 84 Folder 21 An Imaging Detector for Hard X-Ray Sources, 1974
- Box 16 of 84 Folder 22 A Sky Survey in High-Energy Gamma Rays, 1974
- Box 16 of 84 Folder 23 Definition of Large Area Modular Arrays of Reflectors for Cosmic X-Ray Observations of Very High Sensitivity, 1974
- Box 16 of 84 Folder 24 A Sky Survey in High Energy Gamma Rays, 1974
- Box 16 of 84 Folder 25 An Experiment Definition Study of a Soft Solar X-Ray Imaging and Spectrometric System, 1974
- Box 16 of 84 Folder 26 Measurements of Bremsstrahlung, Radiative Electron Capture, and Dielectronic Recombination, 1974
- Box 16 of 84 Folders 27-28 Temporal X-Ray Explorer, 1974
- Box 16 of 84 Folder 29 Localization of Gamma Ray Bursts and Investigation of Temporal Structure and Spectra from Near Earth Orbit, 1974
- Box 16 of 84 Folder 30 Participation in XUV Astronomy Mission Definition, 1974
- Box 16 of 84 Folders 31-32 An XUV Sky Survey with a Wide Field Imaging Telescope, 1974
- Box 16 of 84 Folder 33 Solar Soft X-Ray Imaging Spectrometric System for the Solar Maximum Mission Management Proposal, 1974
- Box 16 of 84 Folder 34 Solar Soft X-Ray Imaging Spectrometric System for the Solar Maximum Mission Technical Proposal, 1974

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- Box 17 of 84 Folder 1 Study of an Imaging Detector for Hard X-Ray Sources, 1975
- Box 17 of 84 Folder 2 An XUV Sky Survey Using Sounding Rockets, 1975
- Box 17 of 84 Folder 3 A Collaborative Program of Research into the Theory and Observations of Binary Star Systems with Compact Stellar Membership, 1975
- Box 17 of 84 Folder 4 Measurement of Spatial and Temporal Variability in Lunar Radon Emission, 1975
- Box 17 of 84 Folder 5 High-Resolution X-Ray Mirror Development for Shuttle, 1975-1976
- Box 17 of 84 Folder 6 Development of Low Resolution Imaging Spectrophotometry Using a Low-light Level Imaging System, 1976
- Box 17 of 84 Folder 7 Cosmic X-Ray Spectroscopy on the Space Shuttle, 1976

- Box 17 of 84 Folder 8 Continuation of the Study of X-Rays and Gamma Rays, 1976
- Box 17 of 84 Folder 9 Large Area Modular Array (LAMAR) for an Aries Sounding Rocket, 1976
- Box 17 of 84 Folder 10 High Sensitivity Cosmic X-Ray Observations with the LAMAR Facility on Space Lab 2, 1976
- Box 17 of 84 Folder 11 High Sensitivity Cosmic X-Ray Observations with the LAMAR Facility on the Space Shuttle Orbital Flight Test Missions, 1976
- Box 17 of 84 Folder 12 Spectrographic Imaging X-Ray Telescope Experiment, 1976
- Box 17 of 84 Folder 13 Cosmic X-Ray Spectroscopy on the Space Shuttle Orbital Test Flight, 1976
- Box 17 of 84 Folder 14 XUV Astronomy on the Space Shuttle, 1976
- Box 17 of 84 Folder 15 XUV Astronomy on the Space Shuttle Orbital Flight Test, 1976
- Box 17 of 84 Folder 16 High Sensitivity Gamma-Ray Burst Experiment, 1976
- Box 17 of 84 Folder 17 Short Wavelength Reflectivity of Multilayered Metallic Surfaces, 1977
- Box 17 of 84 Folder 18 Extension of Current State-of-the-Art Microlithographic Techniques to X-Ray and XUV Spectroscopy, 1977
- Box 17 of 84 Folder 19 A Hard X-Ray Detector with Very High Spatial Resolution, 1977
- Box 17 of 84 Folder 20 Development of a Single Photo Counting Linear Silicon Diode Array for Using in a High Resolution Bragg Crystal Spectrometer, 1977
- Box 17 of 84 Folder 21 A Spectrographic Imaging X-Ray Detector Sounding Rocket Experiment, 1977
- Box 17 of 84 Folder 22 Development of an Advanced High Resolution Detector for X-Ray Astronomy, 1977
- Box 17 of 84 Folder 23 Conceptual Evaluation of Cylindrical Focusing High Resolution Bragg Crystal Spectrometer, 1978
- Box 17 of 84 Folder 24 All Sky Camera with High Angular Resolution for Localization and Temporal Study of Gamma Ray Bursts and Soft Gamma Ray Sources, 1978
- Box 17 of 84 Folders 25-26 A Small, Helium-cooled, Infrared Telescope for Spacelab, 1976-1978
- Box 17 of 84 Folder 27 Evaluation of Position Sensitive Detectors for a Cylindrical Focusing High Resolution Bragg Crystal Spectrometer, 1979

- Box 17 of 84 Folder 28 A Focusing Crystal Spectrograph for X-Rays from Laser Fusion Targets
- Box 17 of 84 Folder 29 Simultaneous UV and X-Ray Observations of Variable Quasars, 1979
- Box 17 of 84 Folder 30 Studies of the Replication Method for X-Ray Telescopes for the LAMAR Facility, 1979
- Box 17 of 84 Folder 31 Testing of Mosaic Crystals for Cosmic X-Ray Spectroscopy, 1979
- Box 17 of 84 Folder 32 Measurement of the X-Ray Spectra of Molybdenum Ions, 1979
- Box 17 of 84 Folder 33 Design and Development of High Quality X-Ray Imaging Detectors for X-Ray Astronomy Using Negative Electron Affinity Photocathodes, 1979
- Box 17 of 84 Folder 34 Proportional Counter for X-Ray Analysis of Lunar and Planetary Surfaces, 1975-1979
- Box 17 of 84 Folder 35 Development of Instrument for Measurement of Mass Flow Distribution and Chemical Composition of Comets from X-Ray Fluorescence, 1977-1979
- Box 17 of 84 Folder 36 High Resolution Cosmic X-Ray Spectroscopy on Shuttle/Spacelab, 1978-1979
- Box 17 of 84 Folder 37 A Comparative Study of the UV and X-Ray Line Spectra of Four Binary X-Ray Sources, 1978-1979
- Box 17 of 84 Folder 38 An Imaging Solid State Spectrometer for Cosmic X-Ray Spectroscopy, 1978-1979

Box 18

- Box 18 of 84 Folder 1 Spherical, Crystal Imaging Spectrometer for Cosmic X-Ray Spectroscopy on the Space Shuttle, 1978-1980
- Box 18 of 84 Folder 2 Stellar Coronal Explorer, 1980
- Box 18 of 84 Folder 3 Study of Solar and Stellar Coronal Plasmas, 1981
- Box 18 of 84 Folder 4 Pre-Phase "A" Study of a Free Flyer Large Area Modular Array of Reflectors (LAMAR), 1981

Subseries 4f: Publications: 1971-1988

This subseries primarily consists of HEAD preprint publications from 1973-1988. Indexes of each year appear at the front of the first folder for that year. Two folders contain the drafts and final copies of a book on x-ray astronomy that Giacconi and his colleagues wrote for the Annual Review in

1980. There is also one issue of the "Centerline", the Center for Astrophysics newsletter.

- Box 18 of 84 Folder 5 Superclusters, 1977
- Box 18 of 84 Folder 6 Center for Astrophysics Report to the Ad Hoc Review Committee, 1979
- Box 18 of 84 Folder 7 Centerline, 1980
- Box 18 of 84 Folder 8 "Telescopes for X-Ray Astronomy" for Annual Review 1st Draft, 1980
- Box 18 of 84 Folder 9 "Telescopes for X-Ray Astronomy" for Annual Review 2nd Draft, 1980
- Box 18 of 84 Folder 10 "Telescopes for X-Ray Astronomy" for Annual Review Final Draft, 1980
- Box 18 of 84 Folder 11 CFA HEAD Preprints List, 1971-1981
- Box 18 of 84 Folder 12 CFA HEAD Preprints, 1974-1975
- Box 18 of 84 Folders 13-17 CFA HEAD Preprints, 1975
- Box 18 of 84 Folders 18-19 CFA HEAD Preprints, 1976 (Folders 1-2 of 3)

Box 19

- Box 19 of 84 Folder 1 CFA HEAD Preprints, 1976 (Folder 3 of 3)
- Box 19 of 84 Folders 2-5 CFA HEAD Preprints, 1977
- Box 19 of 84 Folders 6-7 CFA HEAD Preprints, 1978
- Box 19 of 84 Folders 8-9 CFA HEAD Preprints, 1979
- Box 19 of 84 Folder 10 CFA HEAD Preprints #1109 and #1473, 1979
- Box 19 of 84 Folders 11-13 CFA HEAD Preprints, 1980
- Box 19 of 84 Folder 14 CFA HEAD Preprints, 1980-1981 (Folder 1 of 3)

Box 20

- Box 20 of 84 Folders 1-2 CFA HEAD Preprints, 1980-1981 (Folders 2-3 of 3)
- Box 20 of 84 Folder 3 Galaxy Clusters, 1980-1981
- Box 20 of 84 Folders 4-5 CFA HEAD Preprints, 1981
- Box 20 of 84 Folders 6-11 CFA HEAD Preprints, 1982

Box 20 of 84 Folders 12-14 CFA HEAD Preprints, 1983

Box 20 of 84 Folder 15 CFA HEAD Preprints, 1984

Box 21

Box 21 of 84 Folders 1-2 CFA HEAD Preprints, 1984

Box 21 of 84 Folders 3-5 CFA HEAD Preprints, 1985

Box 21 of 84 Folders 6-11 CFA HEAD Preprints, 1986

Box 21 of 84 Folders 12-13 CFA HEAD Preprints, 1986-1987

Box 21 of 84 Folder 14 CFA HEAD Preprints, 1987

Box 22

Box 22 of 84 Folders 1-2 CFA HEAD Preprints, 1987

Box 22 of 84 Folders 3-5 CFA HEAD Preprints, 1988

Box 22 of 84 Folder 6 Clippings 1973-1974

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Series 5: Harvard, 1969-1981

This series relates to Giacconi's tenure as a Professor of Astronomy at Harvard University. The series contains memoranda, correspondence, lecture notes, coursework, term papers, proposals, and meeting minutes. The series illuminates activities taking place within the Department of Astronomy including faculty recruitment, graduate admissions and graduate research.

Box 22

Subseries 5a: Committee on Academic Studies: 1980-1981

This subseries consists of materials related to the Committee of Academic Studies. This Committee serves to direct the academic progress of graduate students in the Department of Astronomy. This subseries contains memoranda, research plans, research proposals, course evaluations, committee reports and a guide to life for astronomy graduate students.

- Box 22 of 84 Folder 7 Course Evaluations, 1980-1981
- Box 22 of 84 Folder 8 Meeting Minutes, 1980-1981
- Box 22 of 84 Folder 9 Memoranda, 1981
- Box 22 of 84 Folder 10 Primer on Grad Student Life, 1980
- Box 22 of 84 Folder 11 Student Paper Grade Reports, 1981
- Box 22 of 84 Folder 12 Student Research Plans, 1980-1981
- Box 22 of 84 Folder 13 Student Research Proposals, 1981
- Box 22 of 84 Folder 14 Thesis Advisory Committee Reports, 1980-1981

Subseries 5b: Courses: 1975-1978, 1980

This subseries contains materials related to courses taught in the Harvard Astronomy Department. The bulk of the material comes from Giacconi's course Astronomy 262: High Energy Astrophysics (X-Ray Astronomy). One folder contains materials relating to a mini-course on statistics taught by Yoram Avni, a visiting professor.

- Box 22 of 84 Folder 15 Astronomy 262 Course Outline, 1980
- Box 22 of 84 Folder 16 Astronomy 262 Course work, 1978
- Box 22 of 84 Folder 17 Astronomy 262 Lectures, 1976
- Box 22 of 84 Folder 18 Astronomy 262 Lectures, 1978
- Box 22 of 84 Folder 19 Astronomy 262 Lectures, 1980

Box 22 of 84 Folder 20 Astronomy 262 Memoranda, 1975-1978, 1980

Box 22 of 84 Folder 21 Astronomy 262 Term Papers, 1976

Box 22 of 84 Folder 22 Astronomy 262 Term Papers, 1980

Box 22 of 84 Folder 23 Yoram Avni Statistics Course, 1980

Subseries 5c: Faculty Search: 1973-1981

This subseries consists of materials relating to various searches that Harvard has made to fill faculty positions within the Astronomy Department. Two folders document the search made for a tenured professor, first focusing on Marc Davis as an "optical" astronomer, and then focusing on Josh Grindlay as a high-energy astronomer. There is also a folder concerning a search for an assistant professor. Lastly, there is a file of correspondence from Giacconi regarding various applicants for positions within the Astronomy Department.

Box 22 of 84 Folder 24 Assistant Professorship, 1979-1980

Box 22 of 84 Folder 25 J. Grindlay Tenure, 1980-1981

Box 22 of 84 Folder 26 Optical Professor Search, 1978-1981

Box 22 of 84 Folder 27 Recommendations for Professors, 1973-1979

Subseries 5d: Memoranda: 1974-1981

This subseries contains memoranda relating to affairs specifically within the Astronomy Department and more generally to Harvard. It is arranged alphabetically by subject.

Box 22 of 84 Folder 28 Astronomy Department, 1979-1981

Box 22 of 84 Folder 29 Faculty Meetings, 1977-1981

Box 22 of 84 Folder 30 Graduate Admissions, 1980-1981

Box 22 of 84 Folder 31 HCO Budget, 1980-1981

Box 22 of 84 Folder 32 HCO Council, 1980-1981

Box 22 of 84 Folder 33 Leaves of Absence, 1980-1981

Box 22 of 84 Folder 34 Robert Reed, 1974-1979

Box 22 of 84 Folder 35 Relocation of Agassiz Station, 1981

Box 22 of 84 Folder 36 Visiting Committee, 1976

Box 22 of 84 Folder 37 Visiting Committee, 1978

Box 22 of 84 Folder 38 University Memoranda, 1979-1981

Subseries 5e: Proposals: 1969, 1977-1978, 1981

This subseries consists of research proposals put forward by the Harvard College Observatory.

Box 22 of 84 Folder 39 High Spatial and Spectral Resolution Investigations of the Solar Atmosphere, 1969

Box 22 of 84 Folder 40 Wide Field, High Resolution and High Sensitivity Survey of X-Ray Bursts and Hard X-Ray Sources, 1977

Box 23

Box 23 of 84 Folder 1 Imaging Hard X-Ray Survey Experiment on Shuttle/Skylab, 1978

Box 23 of 84 Folder 2 Energetic X-Ray Imaging and Timing Experiment on the X-Ray Timing Explorer Mission, 1981

Subseries 5f: Administrative Records: 1974, 1976-1977, 1979-1981

This subseries consists of records relating to the running of the Astronomy Department. The subseries contains faculty, staff, and student directories, affirmative action documents, academic calendars, a list of film projectors, Harvard's policy on patents and copyrights and a map of the campus.

Box 23 of 84 Folder 3 Astronomy Department Faculty and Grad Student Directories, 1979-1981

Box 23 of 84 Folder 4 Harvard Faculty and Staff Directory, 1980-1981

Box 23 of 84 Folder 5 Astronomy Department General Documents, 1974, 1976-77, 1980-1981

Box 23 of 84 Folder 6 Insurance, 1981

Subseries 5g: Graduate Advisees: 1973-1977

This subseries consists of records relating to graduate students advised by Giacconi while at Harvard.

Box 23 of 84 Folder 7 Andrew Connors, 1973, 1975-1976

Box 23 of 84 Folder 8 Ken Swartz, 1974-1977

Subseries 5h: University Appointments: 1971-1972, 1974, 1976, 1978

This subseries consists of documents appointing Giacconi first to the position of Associate of the Harvard College Observatory and later to the position of Associate Director of the Harvard-Smithsonian Center for Astrophysics.

Box 23 of 84

Folder 9 University Appointments, 1971-1972, 1974, 1976, 1978

Subseries 5i: Clippings: 1979

This subseries contains clippings relating to Harvard University.

Box 23 of 84

Folder 10 Clippings, 1979

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Series 6: High Energy Astrophysical Observatory (HEAO), 1967-1974, 1976, 1978-1980 and undated

This series consists of materials related to the HEAO series of projects as a whole. It consists of budgetary materials, correspondence about collaborative efforts, reports, proposals, meeting notes and agenda, general correspondence and press materials. The budget materials chronicle the difficulties that the HEAO program experienced in 1973, when it was almost cancelled.

Box 23

Subseries 6a: Budget: 1972-1973

This subseries consists of materials relating to the budgetary difficulties that the HEAO program suffered in 1972-1973. The subseries primarily consists of correspondence and memoranda.

- Box 23 of 84 Folder 11 Funding Concerns, 1972
- Box 23 of 84 Folder 12 Project Termination, 1973
- Box 23 of 84 Folder 13 ASE money problems due to HEAO cancellation, 1973
- Box 23 of 84 Folder 14 Experiment Restructuring, 1973

Subseries 6b: Collaboration: 1969-1972

This subseries consists of correspondence related to collaborative efforts between ASE and other companies for the HEAO projects.

- Box 23 of 84 Folder 15 Correspondence, 1969-1970
- Box 23 of 84 Folder 16 General Electric, 1969-1970
- Box 23 of 84 Folder 17 TRW, 1969-1972
- Box 23 of 84 Folder 18 Boeing, 1970

Subseries 6c: Meetings: 1967, 1970, 1974, 1976, 1979-1980

This subseries consists of notes and agendas from meetings related to the HEAO projects.

- Box 23 of 84 Folder 19 National X-Ray Astronomy Facility, 1967
- Box 23 of 84 Folder 20 Review, July 7, 1970
- Box 23 of 84 Folder 21 NASA X-Ray Astronomy Panel Meeting, 1970
- Box 23 of 84 Folder 22 HEAO Spacecraft Management Review, May 2, 1974

- Box 23 of 84 Folders 23-24 NASA Program Presentation, May 1974
- Box 23 of 84 Folder 25 HEAO/NASA, September 27-28, 1976
- Box 23 of 84 Folder 26 HEAO Science Symposium (Huntsville), 1979
- Box 23 of 84 Folder 27 HEAO Honor Awards Ceremony, 1980
- Subseries 6d: Proposals: 1968, 1970, 1973, and undated
- This subseries consists of proposals for experiments intended for the HEAO program.
- Box 23 of 84 Folder 28 Astronomical X-Ray Polarimetry, 1968
- Box 23 of 84 Folder 29 Large Gas-Cerenkov Experiment, 1970
- Box 23 of 84 Folder 30 ACS (Attitude Control System), 1970
- Box 23 of 84 Folder 31 UCSD Gamma Ray Detector, 1970
- Box 23 of 84 Folder 32 High Energy Gamma Ray Astronomy with a Large Area Spark Chamber, 1970
- Box 23 of 84 Folder 33 Case Western - High Energy Solar Neutron Experiment, 1970
- Box 23 of 84 Folder 34 HEAO Contamination Study, 1970
- Box 23 of 84 Folder 35 NASA Review of Proposed Experiments, 1973
- Box 24
- Box 24 of 84 Folder 1 HEAO/LAMAR Conceptual Drawings, undated
- Subseries 6e: Reports: 1969-1970
- This subseries consists of reports relating to the early stages of development of the HEAO program.
- Box 24 of 84 Folder 2 Telescopes and Subsystems for a High Energy Astronomy Observatory, 1969
- Box 24 of 84 Folder 3 Study of the Attitude Control and Sensing Systems for the HEAO Series of Spacecraft, 1970
- Subseries 6f: Correspondence: 1970-1972
- This subseries contains general correspondence relating to the HEAO program.

Box 24 of 84 Folder 4 1970-1972

Subseries 6g: Press/Media Coverage: 1975, 1978-1979, and undated

This subseries consists of two promotional booklets produced by NASA to highlight the HEAO satellites. There is also one clipping describing the planned HEAO satellites.

Box 24 of 84 Folder 5 "The New Universe" Film Script, 1975

Box 24 of 84 Folder 6 NASA Promotional Booklets, 1978-1979

Box 24 of 84 Folder 7 Clippings, undated

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Series 7: High Energy Astrophysical Observatory (HEAO-A), 1970-1981

This series contains materials related to Giacconi's involvement with the HEAO-A satellite in the High Energy Astrophysics Observatory (HEAO) series of launches, first with ASE and later with the Harvard-Smithsonian Center for Astrophysics. The series consists of proposals, reports, contract materials, publications, memoranda and correspondence relating to the overall HEAO-A effort and to specific experiments on the satellite. The two specific experiments were AXR-1, a large-area focusing x-ray collector, and AXR-2, a scanning modulation collimator. AXR-1 was scrapped in 1973 when the entire HEAO program was restructured, but AXR-2 continued and was included in the HEAO-A launch in 1977 as experiment HEAO A-3.

Box 24

Subseries 7a: AXR-1: 1970-1973

This subseries contains materials related to the large-area focusing collector experiment for HEAO-A satellite. This subseries contains reports, proposals, contracts, memoranda and correspondence relating to the design and preliminary testing of the focusing collector.

- | | |
|--------------|--|
| Box 24 of 84 | Folder 8 Management Proposal for a Long Wavelength Cosmic X-Ray Survey with a Large-Area Focusing Collector, 1970 |
| Box 24 of 84 | Folder 9 Program Definition Phase for a Large-Area Focusing Collector, 1970 |
| Box 24 of 84 | Folder 10 Phase C/D Proposal Vol. I, 1971 |
| Box 24 of 84 | Folder 11 Phase C/D Proposal Vol. II, 1971 |
| Box 24 of 84 | Folder 12 Phase C/D Proposal Vol. III, 1971 |
| Box 24 of 84 | Folder 13 Mission Operations and Data Analysis, 1971 |
| Box 24 of 84 | Folders 14-15 Columbia (CAL)-Long Wavelength Cosmic X-Ray Survey with a Large-Area Focusing Collector, 1971 |
| Box 24 of 84 | Folder 16 Continuation of Phase B Definition Activities, 1971 |
| Box 24 of 84 | Folder 17 Preliminary Proposal for an Ultraviolet Monitor for the Large-Area Focusing X-Ray Collector Experiment, 1971 (?) |
| Box 24 of 84 | Folder 18 Mission Operations and Data Analysis, 1972 |
| Box 24 of 84 | Folder 19 Phase C/D Proposal for AXR-1 Vol. I, 1971 |
| Box 24 of 84 | Folder 20 Phase C/D Proposal for AXR-1 Vol. II, 1972 |
| Box 24 of 84 | Folder 21 Phase C/D Proposal for AXR-1 Vol. III, 1972 |
| Box 24 of 84 | Folders 22-24 Modifications to Proposal for HEAO Experiment AXR-1, Phase C/D, 1972 |

- Box 24 of 84 Folder 25 Program Change Proposals, 1972
- Box 24 of 84 Folder 26 Engineering Summary of the Technical Proposal for a Cosmic X-Ray Survey with a Large-Area Focusing Collector, 1972
- Box 24 of 84 Folder 27 Proposal for Completion of Laboratory Work with a Large-Area Focusing Collector, 1973
- Box 24 of 84 Folder 28 C/D Program Phase of the Large-Area Focusing Collector Experiment, undated
- Box 24 of 84 Folder 29 Preliminary Requirements Review, 1971
- Box 25
- Box 25 of 84 Folder 1 End-Item Specification (Columbia), 1971
- Box 25 of 84 Folder 2 Program Development Plan (ASE) Large-Area Focusing Collector Experiment Vol. I, 1971
- Box 25 of 84 Folders 3-5 Program Development Plan (Columbia) Large-Area Focusing Collector Experiment, 1971
- Box 25 of 84 Folder 6 Quality Program Plan AXR-1, 1972
- Box 25 of 84 Folder 7 Reliability Program Plan for AXR-1, 1972
- Box 25 of 84 Folder 8 Program Management Plan, 1972
- Box 25 of 84 Folder 9 Experiment Verification Plan, 1972
- Box 25 of 84 Folder 10 Safety Program Plan, 1972
- Box 25 of 84 Folder 11 Contamination Control Plan, 1972
- Box 25 of 84 Folder 12 Electromagnetic Compatibility Control Plan, 1972
- Box 25 of 84 Folder 13 Radiation Control Plan, 1972
- Box 25 of 84 Folder 14 Status of the Columbia University Long Wavelength Focusing Collector Experiment, 1971
- Box 25 of 84 Folder 15 Trade-off Study Reports, 1971
- Box 25 of 84 Folder 16 Review of Applicable Documents, 1971
- Box 25 of 84 Folder 17 Monthly Progress Reports Columbia, 1971
- Box 25 of 84 Folder 18 Progress Reports #1-2, 1972
- Box 25 of 84 Folder 19 Progress Reports #3-4, 1972

- Box 25 of 84 Folder 20 Progress Reports #5-6, 1972
- Box 25 of 84 Folder 21 Progress Report #7, 1972
- Box 25 of 84 Folder 22 Progress Report #8, 1973
- Box 25 of 84 Folder 23 Final Report Contract NAS8-28572, 1973
- Box 25 of 84 Folder 24 AXR-1 Instrument Development Status Report, 1973
- Box 25 of 84 Folders 25-26 Correspondence Columbia, 1971-1972

Box 26

- Box 26 of 84 Folder 1 Memoranda Columbia, 1970-1972
- Box 26 of 84 Folder 2 Correspondence Contract NAS8-27971, 1972-1973
- Box 26 of 84 Folder 3 Memoranda Contract NAS8-27971, 1972-1973
- Box 26 of 84 Folder 4 Contracts NAS8-26841, 1971-1972
- Box 26 of 84 Folder 5 Contracts NAS8-27971, 1972-1973
- Box 26 of 84 Folder 6 Contracts NAS8-28572, 1972

Subseries 7b: AXR-2: 1970-1981

This subseries consists of materials related to the scanning modulation collimator experiment. The subseries contains proposals, reports, plans, design specifications, memoranda, contracts, publications and correspondence relating to the design, construction, and flight of the AXR-2 experiment about HEAO-A.

- Box 26 of 84 Folder 7 Phase C/D Proposal Vol. I, 1971
- Box 26 of 84 Folder 8 Phase C/D Proposal Vol. II, 1971
- Box 26 of 84 Folder 9 Phase C/D Proposal Vol. III, 1971
- Box 26 of 84 Folder 10 MIT-Integrated X-Ray Modulation Collimator Experiment, 1971-1972
- Box 26 of 84 Folder 11 Supplement to Phase C/D Proposal Vol. I, 1972
- Box 26 of 84 Folder 12 Supplement to Phase C/D Proposal Vol. II, 1972
- Box 26 of 84 Folder 13 Supplement to Phase C/D Proposal Vol. III, 1972
- Box 26 of 84 Folder 14 Supplement to Phase C/D Proposal Vol. IV, 1972

Box 26 of 84 Folder 15 Program Change Proposals, 1972

Box 26 of 84 Folder 16 A-3 Proposal Restructured Vol. I and III, 1973

Box 26 of 84 Folder 17 A-3 Proposal Restructured Vol. II, 1973

Box 26 of 84 Folder 18 Participation in the Scanning Modulation Collimator Experiment, 1973

Box 26 of 84 Folder 19 Proposal P633-9-76, 1976

Box 26 of 84 Folder 20 Proposal P707-6-77, 1977

Box 26 of 84 Folder 21 Proposal P973-4-80, 1980

Box 26 of 84 Folder 22 Design Review, 1971

Box 27

Box 27 of 84 Folder 1 Preliminary End-Item Specifications, 1971

Box 27 of 84 Folder 2 Preliminary End-Item Specifications for HEAO A-3, 1973

Box 27 of 84 Folder 3 Mission Operations Requirements, 1974-1976

Box 27 of 84 Folder 4 Quality Program Plan, 1972

Box 27 of 84 Folder 5 Reliability Program Plan, 1972

Box 27 of 84 Folder 6 Experiment Verification Plan, 1972

Box 27 of 84 Folder 7 Program Management Plan, 1972

Box 27 of 84 Folder 8 Engineering and Development Plan, 1972

Box 27 of 84 Folder 9 Safety Program Plan, 1972

Box 27 of 84 Folder 10 Radiation Control Plan, 1972

Box 27 of 84 Folder 11 Electromagnetic Compatibility Control Plan, 1972

Box 27 of 84 Folder 12 Contamination Control Plan for AXR-2, 1972

Box 27 of 84 Folder 13 Reliability Program Plan HEAO A-3, 1973

Box 27 of 84 Folder 14 Quality Program Plan for HEAO A-3, 1973

Box 27 of 84 Folder 15 Safety Program Plan for HEAO A-3, 1973

Box 27 of 84 Folder 16 Progress Reports #1-4, 1972

Box 27 of 84 Folder 17 Progress Reports #5-6, 1972

- Box 27 of 84 Folder 18 Progress Report #7, 1972
- Box 27 of 84 Folder 19 Progress Report #8, 1973
- Box 27 of 84 Folders 20-21 Progress Reports, 1974-1981
- Box 27 of 84 Folder 22 Contracts NAS8-27973, 1972-1973
- Box 27 of 84 Folders 23-24 Contracts NAS8-30453, 1973-1981
- Box 27 of 84 Folder 25 Contracts Budgets NAS8-30453, 1974-1976
- Box 27 of 84 Folder 26 Memoranda, 1972-1973, 1977-1979
- Box 27 of 84 Folder 27 Correspondence MIT, 1970-1973
- Box 27 of 84 Folder 28 Correspondence ,1972-1981
- Box 27 of 84 Folder 29 Publications, 1975, 1977-1978, undated

Subseries 7c: HEAO-A General: 1970-1972, 1977-1978, and undated

This subseries contains materials related to the HEAO-A satellite as a whole. It includes memoranda, stationery, publications, newsletters and correspondence.

Box 28

- Box 28 of 84 Folder 1 Memoranda, 1970-1971
- Box 28 of 84 Folder 2 Memoranda MIT, 1971-1972
- Box 28 of 84 Folder 3 NASA Technical Memoranda, 1977
- Box 28 of 84 Folder 4 Newsletters, 1977-1978
- Box 28 of 84 Folder 5 Annual Report, 1978
- Box 28 of 84 Folder 6 Sky and Telescope Article, 1978
- Box 28 of 84 Folder 7 HEAO-A Experimenters' Stationery, undated
- Box 28 of 84 Folder 8 HEAO-A List of Experiments, undated

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Series 8: Large Orbiting X-Ray Telescope (LOXT, HEAO-C), 1968-1974

This series contains materials arising from Giacconi's involvement with the Large Orbiting X-Ray Telescope (LOXT) proposed for flight on the HEAO-C satellite. The series consists of proposals, reports, contract materials, publications, memoranda and correspondence relating to the LOXT experiment. The HEAO-C Satellite was eventually launched in 1979, but the LOXT was not one of the experiments.

Box 28

Subseries 8a: Proposals: 1970-1972

This subseries consists of various research and design proposals put forth during the LOXT project.

- Box 28 of 84 Folder 9 LOXT Management Proposal, 1970
- Box 28 of 84 Folders 10-11 LOXT Technical Proposal Summary, 1970
- Box 28 of 84 Folder 12 LOXT Management Plan and Phase B Proposal, 1971
- Box 28 of 84 Folder 13 LOXT Mirror Design Study, 1971
- Box 28 of 84 Folder 14 LOXT Mirror Graphite Composite Test Program, 1971
- Box 28 of 84 Folder 15 LOXT Management Plan and Phase B Proposal, 1972
- Box 28 of 84 Folder 16 Supplemental Proposal to the LOXT Mirror Design Study, 1972
- Box 28 of 84 Folder 17 Supplement to the LOXT Phase B Proposal - High Resolution Mirror Development and Test Program, 1972
- Box 28 of 84 Folder 18 LOXT Phase B Study Plan, 1972
- Box 28 of 84 Folder 19 LOXT Pre-Definition Phase Extension, 1972

Subseries 8b: Reports: 1971-1974

This subseries consists of reports on various parts of the LOXT experiment throughout its development cycle.

- Box 28 of 84 Folder 20 LOXT Contract NAS8-27795 Progress Reports, 1971-1972
- Box 28 of 84 Folder 21 HEAO Mission C, Phase A Final Report, Vol. I Executive Summary, 1972
- Box 28 of 84 Folder 22 HEAO Mission C, Phase A Final Report, Vol. II Preliminary Analysis and Conceptual Design, 1972
- Box 28 of 84 Folder 23 HEAO Mission C, Phase A Final Report, Vol. III Appendices, 1972
- Box 28 of 84 Folder 24 LOXT Pre-Definition Study Progress Reports #1-2, 1972

- Box 28 of 84 Folder 25 LOXT Pre-Definition Study Progress Report #3, 1972
- Box 28 of 84 Folder 26 LOXT Pre-Definition Study Progress Report #4, 1972
- Box 29
- Box 29 of 84 Folders 1-2 LOXT Mirror Design Study, 1972
- Box 29 of 84 Folder 3 LOXT Pre-Definition Study Progress Reports #5-6, 1972
- Box 29 of 84 Folder 4 LOXT Pre-Definition Study Progress Reports #7, 1972
- Box 29 of 84 Folder 5 LOXT Summary Status Reports, 1972
- Box 29 of 84 Folder 6 LOXT Pre-Definition Study Progress Reports #8, 1973
- Box 29 of 84 Folder 7 LOXT Pre-Definition Study Progress Reports #10-11, 1973
- Box 29 of 84 Folder 8 LOXT Instrument Development Status Report, 1974
- Subseries 8c: Correspondence and Memoranda: 1968-1972
- This subseries consists of correspondence and memoranda between members of the LOXT design team and between members of the design team and NASA about all aspects of the LOXT project.
- Box 29 of 84 Folders 9-10 Correspondence and Memoranda Large Orbiting X-Ray Facility, 1968-1969
- Box 29 of 84 Folder 11 Correspondence and Memoranda Stellar X-Ray Astronomy, 1968-1969
- Box 29 of 84 Folder 12 Large X-Ray Facility Design Definition, 1969
- Box 29 of 84 Folder 13 Memorandum LOXT Consortium Agreement, 1969
- Box 29 of 84 Folder 14 Correspondence Contract NAS8-24385, 1969-1970
- Box 29 of 84 Folders 15-16 Correspondence and Memoranda LOXT, 1970
- Box 29 of 84 Folder 17 Memoranda LOXT Liaison File, 1970
- Box 29 of 84 Folder 18 Correspondence and Memoranda LOXT, 1971
- Box 29 of 84 Folder 19 Columbia, 1971
- Box 29 of 84 Folder 20 LOXT Correspondence, 1971-1972
- Box 29 of 84 Folder 21 Memoranda LOXT, 1972

Box 30

- Box 30 of 84 Folder 1 Correspondence Contract NAS8-28534, 1973
- Subseries 8d: Contracts: 1969-1974
- This subseries contains contract materials related to the various projects that formed the overall LOXT experiment.
- Box 30 of 84 Folder 2 NAS8-24385, 1969-1970
- Box 30 of 84 Folder 3 NAS8-27795, 1971-1972
- Box 30 of 84 Folder 4 NAS8-28534, 1972-1974
- Subseries 8e: LOXT Development: 1968, 1970, 1972, and undated
- This subseries contains assorted records relating to various aspects of the LOXT plan, including design, budget and approval.
- Box 30 of 84 Folder 5 Notes - High Energy X-Ray Telescope Satellite Columbia, December 9, 1968
- Box 30 of 84 Folder 6 LOXT Evaluation Committee Presentation, 1970
- Box 30 of 84 Folder 7 Request for Quotation - High Resolution Paraboloid Test Mirrors, 1972
- Box 30 of 84 Folder 8 LOXT Goddard Space Flight Center (GSFC) Statement of Work, c. 1972
- Box 30 of 84 Folder 9 Status Review, September 12, 1972
- Box 30 of 84 Folder 10 Experiment Reviews, 1973
- Box 30 of 84 Folder 11 Review of Low Energy Telescope, 1973
- Box 30 of 84 Folder 12 Budget LOXT, undated

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Series 9: High Energy Astrophysical Observatory (HEAO-B, Einstein), 1970-1985, and undated

This series consists of materials stemming from Giacconi's role as Principal Investigator on the HEAO-B x-ray satellite, renamed the Einstein Observatory after its launch in 1978. The series contains correspondence, memoranda, reports, reviews, presentations, clippings, and photographs. This series covers all aspects of the HEAO-B satellite after 1973. In January 1973 the HEAO series of spacecraft was almost cancelled. The x-ray telescope that was supposed to be flown on the HEAO-C satellite was reduced in size and power and reassigned to the HEAO-B satellite. Giacconi was involved in the project first at ASE, then at the Harvard-Smithsonian Center for Astrophysics, before resigning as Principal Investigator when he moved to the Space Telescope Science Institute in 1981.

Box 30

Subseries 9a: Correspondence: 1973-1981, 1985

This subseries consists of correspondence relating to the HEAO-B project, including its construction, budget, testing and launch. The subseries primarily consists of material between 1973, when the HEAO projects were restructured by NASA, and 1981 when Giacconi resigned as Principal Investigator to move to the Space Telescope Science Institute.

- Box 30 of 84 Folders 13-14 1973
- Box 30 of 84 Folder 15 X-Ray Polarimeter, 1973
- Box 30 of 84 Folder 16 1974
- Box 30 of 84 Folder 17 Focal Plane Crystal Spectrometer, 1974
- Box 30 of 84 Folders 19-21 1975
- Box 30 of 84 Folder 22 1976

Box 31

- Box 31 of 84 Folders 1-3 1976
- Box 31 of 84 Folder 4 MPC, 1976
- Box 31 of 84 Folders 5-6 1977
- Box 31 of 84 Folder 7 1977
- Box 31 of 84 Folders 8-12 1978
- Box 31 of 84 Folder 13 Columbia Funding, 1978
- Box 31 of 84 Folder 14 Deep Survey Assignment of Topics, 1978-1979
- Box 31 of 84 Folder 15 Data Analysis - Visiting Scientists, 1978-1980

Box 31 of 84 Folder 16 Einstein Colloquia, 1978-1980
Box 31 of 84 Folder 17 Dispute with Columbia, 1978, 1980
Box 31 of 84 Folders 18-19 1979

Box 32

Box 32 of 84 Folders 1-2 1979
Box 32 of 84 Folder 3 Dispute over NASA Financial Support, 1979
Box 32 of 84 Folder 4 Deep Survey, 1979-1980
Box 32 of 84 Folder 5 Leicester, 1979-1980
Box 32 of 84 Folder 6 Image Permissions, 1979-1981
Box 32 of 84 Folder 7 Requests for Slides, 1979-1981
Box 32 of 84 Folder 8 1980
Box 32 of 84 Folder 9 Funding Shortfall, 1980
Box 32 of 84 Folder 10 1981
Box 32 of 84 Folder 11 Re: Director's Time, 1981
Box 32 of 84 Folder 12 Einstein Termination, 1981
Box 32 of 84 Folder 13 Tananbaum Appointment, 1981
Box 32 of 84 Folder 14 Einstein Data Users, 1985

Subseries 9b: Memoranda: 1973-1984

This subseries consists of memoranda relating to the HEAO-B project, including its construction, budget, testing, launch and scientific life. The subseries primarily consists of material between 1973, when the HEAO projects were restructured by NASA, and 1981 when Giacconi resigned as Principal Investigator to move to the Space Telescope Science Institute.

Box 32 of 84 Folders 15-17 1973
Box 32 of 84 Folders 18-19 1974
Box 32 of 84 Folders 20-22 1975
Box 32 of 84 Folder 23 1976

Box 32 of 84 Folder 24 Focal Plane Detector, 1976

Box 32 of 84 Folder 25 Mission Planning Guidelines and Inputs, 1976-1977

Box 32 of 84 Folder 26 1977

Box 33

Box 33 of 84 Folders 1-3 1977

Box 33 of 84 Folder 4 Confidential Memoranda, 1977

Box 33 of 84 Folders 5-6 1978

Box 33 of 84 Folder 7 Naming of HEAO-B, 1978

Box 33 of 84 Folder 8 Division of Research Topics, 1978

Box 33 of 84 Folder 9 Users' Committee 1978

Box 33 of 84 Folder 10 Einstein Topics, 1978-1979

Box 33 of 84 Folder 11 3C273 Observation, 1979

Box 33 of 84 Folder 12 CAS A and Tycho Data, 1979

Box 33 of 84 Folder 13 Cluster Survey Analysis, 1979

Box 33 of 84 Folder 14 HRI Observations, 1979

Box 33 of 84 Folder 15 QSO Group, 1979

Box 33 of 84 Folder 16 Scientists willing to give seminars, 1979

Box 33 of 84 Folder 17 Users' Committee, 1979

Box 33 of 84 Folder 18 New Redbook Meetings and Scientific Topics, 1979-1980

Box 33 of 84 Folder 19 1980

Box 33 of 84 Folder 20 List of Einstein Seminars, 1980

Box 33 of 84 Folder 21 Users' Committee, 1980

Box 33 of 84 Folder 22 Medium Sensitivity Survey, 1980-1981

Box 33 of 84 Folder 23 Data Analysis, 1980-1983

Box 33 of 84 Folder 24 1981

Box 33 of 84 Folder 25 Users' Committee, 1981

- Box 33 of 84 Folder 26 Scientific Distribution Memos, 1981-1982
- Box 33 of 84 Folder 27 FORTRAN 5 Update, 1982
- Box 33 of 84 Folder 28 1983
- Box 33 of 84 Folder 29 Einstein Distribution, 1984
- Box 33 of 84 Folder 30 IPC Sequences, 1984
- Subseries 9c: Proposals: 1973-1981
- This subseries consists of proposals and plans relating to the design,
 construction, and testing of the HEAO-B project, and to data analysis of the
 information gathered by the satellite.
- Box 33 of 84 Folder 31 Focal Plane Polarimeter, 1973
- Box 33 of 84 Folder 32 SAO HEAO-B Predefinition Phase, 1973
- Box 33 of 84 Folder 33 Budget Proposal for X-Ray Polarimeter, 1973
- Box 33 of 84 Folder 34 Experiment Module for the HEAO-B Mission, 1973
- Box 33 of 84 Folder 35 Interim Cost Runout, 1973
- Box 33 of 84 Folder 36 Technical Proposals for X-Ray Polarimeter, 1973
- Box 34
- Box 34 of 84 Folder 1 Management Proposal for X-Ray Polarimeter, 1973
- Box 34 of 84 Folder 2 RFP Technical Guidelines, 1973
- Box 34 of 84 Folder 3 Proposal Guidelines for Development Phase of HEAO-B, 1973
- Box 34 of 84 Folder 4 Participation in HEAO-B Definition Study, 1973
- Box 34 of 84 Folder 5 Columbia Proposal for Continuation of Work on Program Definition,
 1973
- Box 34 of 84 Folder 6 Verification Plan for the Solid State Spectrometer, 1973
- Box 34 of 84 Folder 7 Project Management Plan for the Solid State Spectrometer, 1973
- Box 34 of 84 Folder 8 Preliminary Management Plan, 1974
- Box 34 of 84 Folder 9 Preliminary Mission Operations Plan, 1974
- Box 34 of 84 Folder 10 Development Phase (C/D) of the HEAO Mission B Telescope
 Experiment, 1974

- Box 34 of 84 Folder 11 Program Management Plan, 1974
- Box 34 of 84 Folders 12-13 Phase C/D Financial Proposal, 1974
- Box 34 of 84 Folders 14-15 Phase C/D Technical Proposal
- Box 34 of 84 Folder 16 Technical Proposal for the Focal Plane Crystal Spectrometer, 1974
- Box 34 of 84 Folder 17 Cost Estimate for the Focal Plane Crystal Spectrometer, 1974
- Box 34 of 84 Folder 18 Project Management Plan for the Focal Plane Crystal Spectrometer, 1974
- Box 34 of 84 Folder 19 Safety Plan for the Focal Plane Crystal Spectrometer, 1974
- Box 34 of 84 Folder 20 Cost Estimate for Solid State Spectrometer, 1974
- Box 34 of 84 Folder 21 Engineering and Development Plan for the Focal Plane Crystal Spectrometer, 1974
- Box 34 of 84 Folder 22 Quality Assurance and Reliability Program Plan for the Focal Plane Crystal Spectrometer, 1974
- Box 34 of 84 Folder 23 Phase C/D X-Ray Telescope Experiment, 1974
- Box 34 of 84 Folder 24 Weight and Mass Properties Control Plan, 1974
- Box 34 of 84 Folder 25 Electromagnetic Compatibility Control Plan, 1974
- Box 34 of 84 Folder 26 Radiation Control Plan, 1974
- Box 34 of 84 Folder 27 Columbia Proposal for Participation in HEAO-B, 1974
- Box 34 of 84 Folder 28 Mission Operations Plan for Solid State Spectrometer, 1974
- Box 34 of 84 Folder 29 Engineering and Development Plan, 1974
- Box 34 of 84 Folder 30 Experiment Verification Plan, 1974
- Box 34 of 84 Folder 31 Program Management Plan for X-Ray Telescope Experiment, 1974
- Box 34 of 84 Folder 32 Engineering and Development Plan for Solid State Spectrometer, 1974
- Box 34 of 84 Folder 33 Technical Proposals for High Resolution Mirror Assembly, 1974
- Box 35
- Box 35 of 84 Folder 1 Proposal Modifications, 1974-1978
- Box 35 of 84 Folder 2 Supplement to NAS8-30753, 1976

- Box 35 of 84 Folder 3 Additional Funds for Computer Acquisition, 1976
- Box 35 of 84 Folder 4 Additional Funds for HRI X-Ray Testing, 1976
- Box 35 of 84 Folder 5 Contract Modifications, 1976-1981
- Box 35 of 84 Folder 6 Data Reduction System Development, 1977
- Box 35 of 84 Folder 7 Modification of SAO Measuring engine to be used for Optical Identification of HEAO-B X-Ray Sources, 1978
- Box 35 of 84 Folder 8 Funding Proposals, 1978-1980
- Box 35 of 84 Folder 9 Star Tracker Contingency Study, 1979
- Box 35 of 84 Folder 10 HEAO-2 Consortium Request for Additional Funds, 1979
- Box 35 of 84 Folder 11 Reduced Effort on HEAO-B, 1981
- Subseries 9d: Reports: 1973-1981
- This subseries consists primarily of progress reports on the HEAO-B experiment.
- Box 35 of 84 Folder 12 High Resolution Spectroscopy on HEAO-B, 1973
- Box 35 of 84 Folder 13 Technical Note on Reflecting Surfaces for the HEAO-B X-Ray Telescope, 1973
- Box 35 of 84 Folder 14 Experiment Progress Report #12, 1973
- Box 35 of 84 Folder 15 Experiment Progress Report #13, 1973
- Box 35 of 84 Folder 16 Experiment Progress Report #14, 1973
- Box 35 of 84 Folder 17 Experiment Progress Report #15, 1973
- Box 35 of 84 Folder 18 Experiment Progress Report #16, 1973
- Box 35 of 84 Folder 19 Experiment Progress Report #17, 1973
- Box 35 of 84 Folder 20 Experiment Progress Report #18, 1973
- Box 35 of 84 Folder 21 Experiment Progress Report #19, 1974
- Box 35 of 84 Folder 22 Experiment Progress Report #20, 1974
- Box 35 of 84 Folder 23 Experiment Progress Report #21, 1974
- Box 35 of 84 Folder 24 Experiment Progress Report #22, 1974

- Box 35 of 84 Folder 25 Experiment Progress Reports #1-6 Phase C/D, 1974
- Box 35 of 84 Folder 26 Progress Reports #2-5 for Focal Plane Crystal Spectrometer, 1974-1975
- Box 35 of 84 Folder 27 Columbia Participation in Design, Development and Operation of HEAO-B, 1974-1975
- Box 35 of 84 Folder 28 Experiment Progress Reports #7-12 Phase C/D, 1975
- Box 35 of 84 Folder 29 ASE Experiment Progress and Status Report #10 Vol. 1, 1975
- Box 35 of 84 Folder 30 ASE Experiment Progress and Status Report #10 Vol. 2, 1975

Box 36

- Box 36 of 84 Folder 1 ASE Experiment Progress and Status Report #11 Vol. 1, 1975
- Box 36 of 84 Folder 2 TRW Report - Momentum Management of Reaction Wheels with Magnetic Torquing, 1975
- Box 36 of 84 Folder 3 Progress Report on the Solid State Spectrometer, 1975
- Box 36 of 84 Folder 4 Experiment Progress Reports #14-18 Phase C/D, 1975
- Box 36 of 84 Folder 5 Experiment Progress Reports #19-32 Phase C/D, 1976-1977
- Box 36 of 84 Folder 6 Final Mass Properties Report and Electrical Power Budget, 1977
- Box 36 of 84 Folder 7 HEAO-B3 Mission Operations Progress and Status Reports, 1978
- Box 36 of 84 Folder 8 HEAO-B X-Ray Telescope, 1978
- Box 36 of 84 Folder 9 Progress Reports, 1978-1981
- Box 36 of 84 Folder 10 Star Tracker Failure, 1979
- Box 36 of 84 Folder 11 Operations Control Center Final Report, 1981

Subseries 9e: Observing Program: 1976-1980, 1982-1983

This subseries consists of material relating to the program of observation carried out by the HEAO-B satellite. The subseries contains memoranda, correspondence, proposals, manuals and observations plans.

- Box 36 of 84 Folder 12 Memoranda, 1976
- Box 36 of 84 Folder 13 CFA Proposals, 1976
- Box 36 of 84 Folder 14 GSFC Proposals, 1976

- Box 36 of 84 Folder 15 Columbia Proposals, 1976-1977
- Box 36 of 84 Folder 16 Memoranda re: Guest Observers, 1976-1977
- Box 36 of 84 Folder 17 Guest Observer Program Utrecht, 1976, 1978
- Box 36 of 84 Folder 18 Leiden Proposals, 1976-1979
- Box 36 of 84 Folder 19 Dr. Lydie Koch, 1977
- Box 36 of 84 Folder 20 Guest Observer Program Overview, 1977
- Box 36 of 84 Folder 21 Consortium Observing Plan, 1977
- Box 36 of 84 Folder 22 Publications, 1977
- Box 36 of 84 Folder 23 Guest Observer Program Proposal, 1977-1978
- Box 36 of 84 Folders 24-25 Guest Observer Correspondence, 1977-1978
- Box 36 of 84 Folder 26 HEAO-B Consortium Observing Program, 1978
- Box 36 of 84 Folder 27 Summary of Instrument Performance and Guest Observer's Guide, 1978
- Box 36 of 84 Folder 28 Einstein Movement, 1979

Box 37

- Box 37 of 84 Folder 1 Guest Observer Proposals, 1979
- Box 37 of 84 Folder 2 Consortium Observing Plan, 1979
- Box 37 of 84 Folder 3 Computer Printout, 1979
- Box 37 of 84 Folder 4 Einstein Observatory Users' Manual, 1980
- Box 37 of 84 Folder 5 Guest Observer Correspondence, 1980
- Box 37 of 84 Folder 6 Data Analyses, 1982
- Box 37 of 84 Folder 7 Invitation to Participate in Guest Investigator Program, 1983
- Box 37 of 84 Folder 8 Observing Program - Rough Drafts of Einstein Observatory User's Manual, 1984

Subseries 9f: Meetings and Presentations: 1970, 1973-1978

This subseries contains materials arising from reviews of the HEAO-B project, presentations about the HEAO-B project, and meetings discussing some of the Einstein results.

- Box 37 of 84 Folder 9 NASA Consortium Presentation, 1970
- Box 37 of 84 Folder 10 Consortium Meeting, May 23, 1973
- Box 37 of 84 Folder 11 Consortium Meeting, July 19, 1973
- Box 37 of 84 Folder 12 Scientific Steering Committee Meeting, 1973
- Box 37 of 84 Folder 13 OSS Review, September 13, 1973
- Box 37 of 84 Folder 14 OSS Review Report, 1973
- Box 37 of 84 Folder 15 Scientific Steering Committee Meeting, 1974
- Box 37 of 84 Folder 16 Triennial Review, March 19, 1975
- Box 37 of 84 Folder 17 Consortium Meeting, March 19, 1974
- Box 37 of 84 Folder 18 Presentation to Dr. Noel Hinners, 1975
- Box 37 of 84 Folders 19-20 Triennial Review, September 1975
- Box 37 of 84 Folder 21 Scientific Steering Committee Meeting, 1975
- Box 37 of 84 Folder 22 Tiger Team Review, 1975
- Box 37 of 84 Folder 23 Review with John Naugle, December 9, 1976
- Box 37 of 84 Folder 24 Consortium Meeting, March 25, 1977
- Box 37 of 84 Folder 25 TRW Meeting, February 15-16, 1978
- Box 37 of 84 Folder 26 Project Review at TRW, April 13, 1978
- Box 37 of 84 Folder 27 MIT Astrophysics Colloquium "Early Results from Einstein," 1979

Subseries 9g: Contracts: 1973-1981

This subseries consists of contract and budget materials relating to the HEAO-B project.

- Box 37 of 84 Folder 28 NAS8-30530, 1973-1974
- Box 37 of 84 Folder 29 Project Authorizations NAS8-30530, 1973-1974

Box 38

- Box 38 of 84 Folder 1 NAS8-30751, 1974
- Box 38 of 84 Folder 2 Budget Documents, 1974-1977
- Box 38 of 84 Folders 3-5 NAS8-30751 Contract Modifications, 1974-1981
- Box 38 of 84 Folder 6 Project Authorizations NAS8-30751, 1976-1981
- Box 38 of 84 Folder 7 NASW-3000, 1980
- Subseries 9h: Specifications: 1973-1977
- This subseries consists of materials outlining the specifications of the various parts of the HEAO program, and the specifications for the mission itself.
- Box 38 of 84 Folder 8 Statement of Work - HEAO-B Crystal Spectrometer MIT, 1973
- Box 38 of 84 Folder 9 Statement of Work - Hardware Development ASE, 1973
- Box 38 of 84 Folder 10 Statement of Work - HEAO-B Telescope Experiment Columbia, 1973
- Box 38 of 84 Folder 11 Statement of Work - HEAO-B Telescope Experiment SAO, 1973
- Box 38 of 84 Folder 12 Aspect Sensor System, 1974
- Box 38 of 84 Folder 13 Image Proportional Counter, 1974
- Box 38 of 84 Folder 14 Prime Equipment Detail Specification, 1974
- Box 38 of 84 Folder 15 Mission Operations Plan, 1974
- Box 38 of 84 Folder 16 Contract End Item Specifications for Focal Plane Crystal Spectrometer, 1974
- Box 38 of 84 Folder 17 Preliminary Instrument End Item Specifications for the Solid State Spectrometer, 1974
- Box 38 of 84 Folder 18 Mission Operations Requirements, 1975-1976
- Box 38 of 84 Folder 19 Focal Plane Transport Assembly, 1977
- Box 38 of 84 Folder 20 NASA Support Plan, 1977
- Subseries 9i: Press/Media Coverage: 1978-1981, and undated
- This series consists primarily of articles and press releases about the Einstein Observatory. There is also a transcript of a Nova program from 1981 about x-ray astronomy. The Einstein Observatory and scientists are prominently featured.

- | | |
|--------------|---|
| Box 38 of 84 | Folder 21 Launch Materials, 1978 |
| Box 38 of 84 | Folder 22 NASA Press Kit, 1978 |
| Box 38 of 84 | Folder 23 TRW Annual Report, 1978 |
| Box 38 of 84 | Folders 24-25 Clippings, 1978-1981 |
| Box 38 of 84 | Folder 26 Harvard Magazine, 1979 |
| Box 38 of 84 | Folder 27 Popular Science, 1979 |
| Box 38 of 84 | Folder 28 NASA Presentation and Press Kit, 1979 |
| Box 38 of 84 | Folder 29 Press Releases, 1979 |
| Box 38 of 84 | Folder 30 Science Magazine, 1979 |
| Box 38 of 84 | Folder 31 Scientific American, 1979-1980 |
| Box 38 of 84 | Folder 32 Science Magazine, 1980 |
| Box 38 of 84 | Folder 33 Aeronautics and Astronautics, 1980 |
| Box 39 | |
| Box 39 of 84 | Folder 1 Transcript "Cosmic Fire" Nova Program, 1981 |
| Box 39 of 84 | Folder 2 NASA Promotional Brochure, undated |
| | Subseries 9j: Photos: 1977-1979, 1981, and undated |
| | This subseries contains glossy photos and slides of Einstein observations. There are also a number of images of graphs and charts presumably used in either publications or presentations about Einstein observations. Although the first folder in the series contains an index of most of the numbered images, most of the images are unlabelled. |
| Box 39 of 84 | Folder 3 Einstein Images Index, 1984 and undated |
| Box 39 of 84 | Folder 4 Einstein Photographs 1-52, undated |
| Box 39 of 84 | Folder 5 Einstein Photographs 53-202, undated |
| Box 39 of 84 | Folder 6 Einstein Photographs 203-565, undated |
| Box 39 of 84 | Folder 7 Einstein Photographs 583-762, undated |
| Box 39 of 84 | Folders 8-9 Einstein Slides Book 1 1-350, undated |
| Box 39 of 84 | Folders 10-11 Einstein Slides Book 2 351-740, undated |

- Box 39 of 84 Folders 12-13 Einstein Slides Book 3 741-1008, undated
- Box 39 of 84 Folder 14 Construction and Testing, undated (Folder 1 of 3)
- Box 39 of 84 Folders 15-16 Construction and Testing, undated (Folders 2-3 of 3)
- Box 39 of 84 Folder 17 Assembly, 1977-1978
- Box 39 of 84 Folder 18 Cygnus X-1 First Light, 1978
- Box 39 of 84 Folder 19 Ursa Minor, Cyg X-3 HRI, Cyg X-3 IPC, 1978 and undated
- Box 39 of 84 Folder 20 Deep Survey, 1979
- Box 39 of 84 Folder 21 Visions of Einstein Educational Program, 1981
- Box 39 of 84 Folder 22 Crystal Spectrometer, undated
- Box 39 of 84 Folder 23 Assorted Photos, undated

Box 40

- Box 40 of 84 Folder 1 Assorted Photos, undated
 - Box 40 of 84 Folder 2 IRAS Slides, undated
 - Box 40 of 84 Folders 3-5 Assorted Slides undated
- Subseries 9k: Publications: 1978-1979, 1981
- This series contains draft materials from publications about Einstein, and a list of papers that were written about Einstein and its observations.
- Box 40 of 84 Folder 6 Einstein Papers in Astrophysical Journal, 1979
 - Box 40 of 84 Folder 7 NASA X-Ray Astronomy Book Draft, 1979-1980
 - Box 40 of 84 Folder 8 Papers written in connection with Einstein, 1981
 - Box 40 of 84 Folder 9 Notes about Preprints, undated

Subseries 9l: Research Files: 1977-1978, 1980-1981

This series consists of notebooks and loose sheets about various Einstein observations, and a timeline of x-ray research up to the launch of the Einstein satellite. The first notebook contains information about the Einstein launch and some photos of early Einstein observations, and the second is concerned with Giacconi's Deep Survey project.

- Box 40 of 84 Folder 10 X-Ray Astronomy Timeline, 1977

- Box 40 of 84 Folder 11 Research Notebook, 1978
- Box 40 of 84 Folder 12 Deep Survey Notebook, 1978
- Box 40 of 84 Folder 13 Deep Survey Loose Papers, 1978
- Box 40 of 84 Folder 14 Galaxy Clusters, 1980-1981
- Box 40 of 84 Folder 15 Target Observation List, undated
- Box 40 of 84 Folder 16 Observation Plots, undated
- Box 40 of 84 Folder 17 Observation Schedule, undated
- Subseries 9m: Audiovisual Materials: undated
- This subseries consists of one Super 8mm animated segment of the Crab Pulsar as seen by the Einstein Observatory.
- Box 40 of 84 Folder 18 Crab Pulsar Movie, undated
- Subseries 9n: Awards: undated
- This subseries contains a commemorative HEAO-B plaque produced by TRW.
- Box 41
- Box 41 of 84 Lucite plaque with wood base in foam holder

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Series 10: Advanced X-Ray Astrophysics Facility (AXAF), 1975-1981, 1991

This series details the early design and development of the 1.2 m x-ray telescope known as AXAF. It contains meeting minutes, reports, proposals, memoranda, photos and a videotape. The telescope was originally planned to be the LOXT for the HEAO-C mission. This plan was dropped with the restructuring of the HEAO missions in 1973. The plan was revived by Giacconi in a 1976 proposal to the NASA entitled "Study of the 1.2 Meter X-Ray Telescope National Space Observatory." Giacconi resigned as chairman of the AXAF Working Group in 1981. The telescope was finally launched in 1999 and christened "Chandra," for noted astronomer Subrahmanyan Chandrasekhar.

Box 41

Subseries 10a: Meetings: 1977-1980

This subseries describes the early design meetings and presentations about the AXAF. The subseries contains meeting minutes, agenda, correspondence, memoranda and prepared presentations.

- Box 41 of 84 Folder 1 Meetings - 1.2 M X-Ray Observatory JPL Management Approach, 1977
- Box 41 of 84 Folder 2 Perkin-Elmer X-Ray Telescope Briefing, 1977
- Box 41 of 84 Folder 3 AXAF Working Group Meeting, December 1, 1977
- Box 41 of 84 Folder 4 AXAF Working Group Meeting, January 19, 1978
- Box 41 of 84 Folder 5 AXAF Working Group Meeting, March 9, 1978
- Box 41 of 84 Folder 6 AXAF Working Group Meeting, April 25, 1978
- Box 41 of 84 Folder 7 AXAF Management Meeting, May 18, 1978
- Box 41 of 84 Folder 8 AXAF Working Group Meeting, May 22, 1978
- Box 41 of 84 Folders 9-10 AXAF Working Group Meeting, July 6, 1978
- Box 41 of 84 Folder 11 AXAF Working Group Meeting, September 15, 1978
- Box 41 of 84 Folder 12 AXAF Working Group Meeting, March 27, 1979
- Box 41 of 84 Folder 13 Lockheed AXAF Briefing, 1979
- Box 41 of 84 Folder 14 Meetings - CCD X-Ray Imager Program, 1979
- Box 41 of 84 Folder 15 AXAF Meeting, January 31, 1980
- Box 41 of 84 Folder 16 AXAF Working Group Meeting, June 19, 1980

Subseries 10b: Proposals: 1976-1980, 1991

This subseries contains proposals for design and construction of the AXAF and for its management. Of note is the first proposal for the AXAF written by Giacconi in 1976.

Box 42

- Box 42 of 84 Folder 1 Study of the 1.2 M X-Ray Telescope Vol. 1 Technical Proposal, 1976
- Box 42 of 84 Folder 2 Study of the 1.2 M X-Ray Telescope Vol. 2 Management Proposal, 1976
- Box 42 of 84 Folder 3 Development of the High Efficiency X-Ray Detector with 10 Arc Second Resolution for 1.2 m X-Ray Telescope, 1976, 1979
- Box 42 of 84 Folder 4 Proposals - Study of the 1.2 M X-Ray Telescope Revised Proposals, 1977
- Box 42 of 84 Folder 5 Proposals - 1.2 M X-Ray Observatory Study Plan, 1977
- Box 42 of 84 Folder 6 Study of an Imaging X-Ray Detector with Spectral Resolution for use on a 1.2 M X-Ray Telescope, 1977
- Box 42 of 84 Folder 7 Proposals - AXAF Research Study Proposals, 1977-1981
- Box 42 of 84 Folder 8 Proposals - Development of a CCD Array for AXAF, 1978
- Box 42 of 84 Folder 9 Proposals - CCD Camera Facility Requirements, 1978 and undated
- Box 42 of 84 Folder 10 To Develop an Imaging X-Ray Spectrometer for Advance X-Ray Astronomy Facilities, 1979
- Box 42 of 84 Folder 11 Development of a CCD Array as an Imaging Detector for Advanced X-Ray Astrophysics Facilities, 1979-1980
- Box 42 of 84 Folder 12 Preliminary Studies of an Imaging Proportional Counter for the Advanced X-Ray Astrophysics Facility, 1979-1980
- Box 42 of 84 Folder 13 Continuation of a Research Study entitled AXAF, 1980
- Box 42 of 84 Folder 14 AXAF Science Center, 1991

Subseries 10c: Memoranda: 1977-1981

This subseries contains memoranda about the AXAF project. A number of the memoranda concern funding for the AXAF. A smaller group of memoranda deals with the scientific justification for various aspects of the project that are threatened with budget cuts.

- Box 42 of 84 Folder 15 AXAF Working Group Charter, 1977
- Box 42 of 84 Folders 16-18 NAS8-32667, 1977-1981

- Box 42 of 84 Folder 19 AXAF Meeting at NASA, June 15, 1978
- Box 42 of 84 Folder 20 Memoranda - CCD Development, 1978-1981
- Box 42 of 84 Folder 21 January-May, 1979
- Box 42 of 84 Folder 22 Dr. Tim Mutch Briefing, 1979
- Box 42 of 84 Folder 23 Scientific Justification for 1.2 M Size for the X-Ray Telescope, 1980
- Box 42 of 84 Folder 24 Mirror Sensitivity Justification, 1980
- Box 42 of 84 Folder 25 AXAF Energy Response out to 8 keV, 1980
- Box 42 of 84 Folder 26 AXAF A/O Issues, 1980
- Subseries 10d: Reports: 1977-1981
- This subseries contains reports on various aspects of AXAF design and management.
- Box 42 of 84 Folder 27 Study Plans, 1977-1979
- Box 42 of 84 Folder 28 AXAF Mirror IG Deflection Parametric Study, 1978
- Box 42 of 84 Folder 29 Astrophysics Project Concept Summary: AXAF, 1978
- Box 42 of 84 Folder 30 TDRSS User's Guide, 1978
- Box 42 of 84 Folder 31 Reports - High Resolution X-Ray Imaging with CCD Arrays, 1978
- Box 42 of 84 Folder 32 Monthly Progress Reports, 1978-1980
- Box 42 of 84 Folder 33 Reports - AXAF Final Report for Period, August 1977-November 1978, 1979
- Box 42 of 84 Folder 34 Draft Sections of the AXAF Science Working Group Report, 1979
- Box 42 of 84 Folder 35 High Resolution Mirror Assembly Structural Systems Trades Analysis Interim Engineering Report, 1979
- Box 43
- Box 43 of 84 Folder 1 Management of the Advanced X-Ray Astrophysics Facility, 1979-1980
- Box 43 of 84 Folder 2 Reports - Progress Reports on Development of a CCD Array, 1979-1981
- Box 43 of 84 Folder 3 High Resolution Mirror Assembly Optical System Study Interim Engineering Report, 1980

Box 43 of 84 Folder 4 High Resolution Mirror Assembly Structural Systems Trades
Analysis Interim Engineering Report, 1980

Box 43 of 84 Folder 5 AXAF Science Working Group Reports Excerpts, 1980

Box 43 of 84 Folder 6 AXAF Science Working Group Report, 1980 (?)

Box 43 of 84 Folder 7 AXAF Phase A Reference Concept, 1980

Box 43 of 84 Folder 8 Monthly Progress Reports, 1981

Subseries 10e: Correspondence: 1975-1981

This subseries contains correspondence between Giacconi and others
regarding the early stages of the AXAF project.

Box 43 of 84 Folder 9 1975-1981

Box 43 of 84 Folder 10 Arthur Walker re: AXAF Management, 1978

Box 43 of 84 Folder 11 HEAO/AXAF Cost Comparison, 1980

Box 43 of 84 Folder 12 Giacconi's Resignation as AXAF Chairman, 1981

Subseries 10f: Contracts: 1977-1981

This subseries consists primarily of contracts and project authorizations for
the "Study of the 1.2M X-Ray Telescope" under NASA contract NAS8-32667.
One folder contains records about contract H32191B covering "Participation
as Members of the Advanced X-Ray Astrophysics Facility Science Working
Group."

Box 43 of 84 Folder 13 Contracts - AXAF Funding Needs, 1977

Box 43 of 84 Folder 14 Contract H32191B, 1977-1981

Box 43 of 84 Folder 15 Contracts - NAS8-32667, 1977-1981

Box 43 of 84 Folder 16 Contracts - Project Authorizations NAS8-32667, 1977-1981

Box 43 of 84 Folder 17 Contracts - NSG-7615 CCD Array, 1979-1980

Box 43 of 84 Folder 18 Contracts - CCD Project Authorizations, 1979-1981

Subseries 10g: Publications: 1979

This subseries consists of publications about x-ray optics consulted as
research by the AXAF Working Group.

Box 43 of 84 Folder 19 Development of Imaging X-Ray Telescopes at Max-Planck Institut,
1979

Box 43 of 84 Folder 20 Reflectivity of Gold-Coated Wolter-I Telescopes at Soft X-Ray
Wavelengths, 1979

Box 43 of 84 Folder 21 X-Ray Test Facilities at Max-Planck Institut Garching, 1979

Subseries 10h: Promotional Materials: undated

This subseries consists of two booklets published by NASA to promote space-based astrophysics. One booklet is entitled "The Advanced X-Ray Astrophysics Facility" and the other is called "The Great Observatories for Space Astrophysics." Each book is accompanied by slides of its illustrations.

Box 43 of 84 Folder 22 The Advanced X-Ray Astrophysics Facility, undated

Box 43 of 84 Folder 23 The Great Observatories for Space Astrophysics, undated

Subseries 10i: Photos: undated

This subseries consists of photos and slides relating to the AXAF project. Many of them consist of artists' renderings of the AXAF. A number of slides seem to come from presentations about the AXAF, including design guidelines, specifications and a listing of people in the AXAF Working Group.

Box 43 of 84 Folder 24 Artists' Conceptions, undated

Box 43 of 84 Folder 25 Slides, undated

Subseries 10j: Video: 1986

This subseries consists of one video entitled "AXAF," apparently produced for NASA. Running time: 13 minutes and 40 seconds.

Box 43 of 84 Folder 26 "AXAF" NASA, July 1986

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Series 11: Series 11: Space Telescope Science Institute (STSI), 1959, 1975, 1981-1990

This series covers Giacconi's tenure as the first head of the Space Telescope Science Institute from 1981-1993. It contains meeting agenda, minutes, correspondence, memoranda, reports, proposals, press clippings and a video. The STSI is the institution responsible for the Hubble Space Telescope (HST). A good deal of the material relates to AURA (Association of Universities for Research in Astronomy), STSI's parent organization. There is a significant lack of material from the years 1990-1993, and there also is little information relating to the day to day operations of the STSI, or the technical development of the HST.

Box 43

Subseries 11a: Meetings and Presentations: 1975, 1981-1988

This series consists primarily of agenda, notes, and presentations made at meetings of AURA (Association of Universities for Research in Astronomy), an organization of which STSI is a member.

- Box 43 of 84 Folder 27 HST Meeting Pasadena, 1975
- Box 43 of 84 Folder 28 AURA Board of Directors Meeting, 1981
- Box 43 of 84 Folder 29 AURA Board of Directors Meeting, 1982
- Box 43 of 84 Folder 30 AURA Board of Directors Meeting, 1983
- Box 43 of 84 Folder 31 AURA Board of Directors Meeting, 1984
- Box 43 of 84 Folder 32 AURA Board Presentation Briefing Package, 1984

Box 44

- Box 44 of 84 Folder 1 Keller Presentation, 1984
- Box 44 of 84 Folder 2 AURA Executive Committee Meeting, December 1984
- Box 44 of 84 Folder 3 Guaranteed Time Observing Meeting, 1985
- Box 44 of 84 Folder 4 AURA Board of Directors Meeting, 1985
- Box 44 of 84 Folder 5 AURA Executive Committee Agenda, June 1985
- Box 44 of 84 Folder 6 STSI Presentation for AURA Executive Committee, June 1985
- Box 44 of 84 Folder 7 AURA Executive Committee Agenda, September 1985
- Box 44 of 84 Folder 8 Agenda Items for AURA Executive Committee Meeting. September 1985
- Box 44 of 84 Folder 9 Space Telescope Institute Council, 1985

- Box 44 of 84 Folder 10 HST Science Working Group, 1986
- Box 44 of 84 Folder 11 AURA Board of Directors Meeting, 1986
- Box 44 of 84 Folder 12 AURA Executive Committee Agenda, January 1986
- Box 44 of 84 Folder 13 NASM Slideshow, 1986
- Box 44 of 84 Folder 14 AURA Executive Committee Agenda, June 1986
- Box 44 of 84 Folder 15 AURA Executive Committee Agenda, September 1986
- Box 44 of 84 Folder 16 AURA Executive Committee Agenda, December 1986
- Box 44 of 84 Folder 17 AURA Board of Directors Meeting, 1987
- Box 44 of 84 Folder 18 AURA Executive Committee Agenda, June 1987
- Box 44 of 84 Folder 19 AURA Executive Committee Agenda, September 1987
- Box 44 of 84 Folder 20 AURA Executive Committee Agenda, January 1988
- Box 44 of 84 Folder 21 AURA Board of Directors Meeting, 1988
- Box 44 of 84 Folder 22 Booz Allen Consultants, March 4, 1988
- Box 44 of 84 Folder 23 AURA Executive Committee Agenda, May 1988

Subseries 11b: Publications: 1987

This subseries consists entirely of a working draft of the book "Shaping the Space Telescope". The book is a history of the development efforts for the Hubble Space Telescope.

Box 45

- Box 45 of 84 Folder 1 Shaping the Space Telescope Introduction, 1987
- Box 45 of 84 Folder 2 Shaping the Space Telescope Chapter 1, 1987
- Box 45 of 84 Folder 3 Shaping the Space Telescope Chapter 2, 1987
- Box 45 of 84 Folder 4 Shaping the Space Telescope Chapter 3, 1987
- Box 45 of 84 Folder 5 Shaping the Space Telescope Chapter 4, 1987
- Box 45 of 84 Folder 6 Shaping the Space Telescope Chapter 5, 1987
- Box 45 of 84 Folder 7 Shaping the Space Telescope Chapter 6, 1987
- Box 45 of 84 Folder 8 Shaping the Space Telescope Chapter 7, 1987

- Box 45 of 84 Folder 9 Shaping the Space Telescope Chapter 8, 1987
- Box 45 of 84 Folder 10 Shaping the Space Telescope Chapter 9, 1987
- Box 45 of 84 Folder 11 Shaping the Space Telescope Chapter 10, 1987
- Box 45 of 84 Folder 12 Shaping the Space Telescope Appendices, 1987
- Box 45 of 84 Folder 13 Starfinder Teacher's Notes, 1990
- Box 45 of 84 Folder 14 Exploring the Universe with NASA's Hubble Space Telescope: A Science Writer's Guide, 1991

Subseries 11c: Memoranda and Correspondence: 1983-1987

This subseries consists of memoranda and correspondence relating to astronomy with the Hubble Space Telescope, and to administrative matters within STSI. Two large folders detail Giacconi's plan to offer a limited amount of time to the amateur astronomical community.

- Box 45 of 84 Folder 15 Correspondence - Space Telescope Study Group, 1975-1976
- Box 45 of 84 Folder 16 Memoranda - Management Information Report, 1981
- Box 45 of 84 Folder 17 Memoranda - Don Hall, 1981-1984
- Box 45 of 84 Folder 18 Memoranda - Robert Brown Agreement, 1983
- Box 45 of 84 Folder 19 Correspondence - LST Delay 1983
- Box 45 of 84 Folder 20 Memoranda - Janet Heller Personnel File, 1983-1986
- Box 45 of 84 Folder 21 Memoranda - Items for Executive Committee Discussion, 1984
- Box 45 of 84 Folder 22 Memoranda - Actions Taken Due to AURA Executive Committee Meeting, October 1984
- Box 45 of 84 Folder 23 Correspondence - Alice and the Space Telescope - Malcolm Longair, 1984-1986, 1988-1989
- Box 45 of 84 Folder 24 Correspondence - Mark Littman, 1984-1986
- Box 45 of 84 Folder 25 Memoranda - Actions Taken Due to AURA Executive Committee Meeting, January 1985
- Box 45 of 84 Folder 26 Memoranda - Agreement with Beijing Observatory, 1985
- Box 45 of 84 Folder 27 Correspondence - Janet Heller, 1985
- Box 45 of 84 Folder 28 Memoranda - Janet Heller, 1985

- Box 45 of 84 Folder 29 Memoranda - Requests for Science Speakers, 1985
- Box 45 of 84 Folder 30 Correspondence - Don Hall, 1985, 1988
- Box 45 of 84 Folders 3-32 Correspondence - Amateur Astronomy Opportunities with HST, 1985-1987
- Box 45 of 84 Folder 33 Correspondence - Janet Heller, 1986
- Box 45 of 84 Folder 34 Memoranda - Janet Heller, 1986
- Box 45 of 84 Folder 35 Memoranda - New Ideas for HST Uses, 1986
- Box 45 of 84 Folder 36 Memoranda - Mark Littman Cambridge Press, 1986
- Box 45 of 84 Folder 37 Memoranda - Mark Littman Personnel File, 1986
- Box 45 of 84 Folder 38 Correspondence - AURA Consultant Salary Review, 1987
- Box 45 of 84 Folder 39 Correspondence - OPD: Review Panel Consultants, 1987
- Box 45 of 84 Folder 40 Correspondence - Booz Allen Consultants, 1987-1988

Box 46

- Box 46 of 84 Folder 1 Correspondence - Malcolm Longair, 1987-1989
- Box 46 of 84 Folder 2 Correspondence - Meiksin, Avery, 1988
- Box 46 of 84 Folder 3 Correspondence - Illingworth, Garth, 1988-1989
- Box 46 of 84 Folder 4 Correspondence - NASA Project Management, 1991-1992

Subseries 11d: Budgets and Operations: 1987-1988

This subseries consists of the proposed STSI budget for 1987 and the proposed operating plan for 1988.

- Box 46 of 84 Folders 5-6 Budget, FY 1987

- Box 46 of 84 Folder 7 Operating Plan, 1988

Subseries 11e: Reports: 1985, 1987

This subseries consists of reports suggesting improvements to the STSI structure, and the responses to said suggestions.

- Box 46 of 84 Folder 8 Space Telescope Science Program Implementation Committee, 1985

- Box 46 of 84 Folder 9 Responses to Space Telescope Science Institute Visiting Committee, 1985
- Box 46 of 84 Folder 10 Advisory Review Team for Operations, 1987
- Subseries 11f: Proposals: 1959, 1985
- This subseries contains two proposals relating to the Space Telescope. The oldest is outlining the needs of a space telescope program in 1959, over 30 years before the actual Hubble telescope was launched.
- Box 46 of 84 Folder 11 Space Telescope Program - Preliminary Requirements, 1959
- Box 46 of 84 Folder 12 Entry Processor, 1985
- Subseries 11g: Press Materials: 1980-1981, 1986
- This subseries contains clippings, press releases, and photos about the Space Telescope and the Space Telescope Science Institute, including articles about Giacconi's hiring as the first president of that Institute.
- Box 46 of 84 Folder 13 Space Telescope Article in IBM Technical Directions, 1980
- Box 46 of 84 Folder 14 Clippings and Press Releases, 1981
- Box 46 of 84 Folder 15 Photos of Saturn (?), 1986
- Subseries 11h: Video: 1986, 1990-1992, and undated
- This subseries consists of videos about the Hubble Space Telescope. There are several interviews with Giacconi about the telescope, including the effects that the Challenger Shuttle disaster had upon the program. There are several tapes that describe the work of the STSI, an episode of Starfinder, an educational astronomy program, one BBC production that describes the HST's mirror problem and several public relations videos about HST and STSI.
- Box 46 of 84 Folder 16 Giacconi Interview re: Challenger Explosion, February 25, 1986
- Box 46 of 84 Folder 17 Unedited Giacconi Interview re: HST Launch, 1990 (?)
- Box 46 of 84 Folder 18 Smithsonian World "Where No Man Has Gone," 1990 (?)
- Box 46 of 84 Folder 19 The Launch and Deployment of the Hubble Space Telescope, 1990 (?)
- Box 46 of 84 Folder 20 Starfinder 18 "Density of Matter," 1990
- Box 46 of 84 Folder 21 "Why Is There A Space Telescope Science Institute?," 1990
- Box 46 of 84 Folder 22 "Hubble: A New View" The Sky at Night, 1991 (?)

Box 47

- | | |
|--------------|---|
| Box 47 of 84 | Folder 1 BBC Horizon "A Small Problem with the Mirror," 1991 |
| Box 47 of 84 | Folder 2 Video from EPAO (Education and Public Affairs Office) 1992 AAS Display, 1992 |
| Box 47 of 84 | Folder 3 AAS Video Press Release, 1992 (?) |

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Series 12: European Southern Observatory (ESO), 1984-1987, 1989-2001

This series deals with Giacconi's time as Director General of the European Southern Observatory and contains both scientific and administrative materials. The series consists of meeting materials, reviews, correspondence, reports, proposals, budget materials, operations plans, and press releases. Unlike some of the earlier series in this collection, the ESO portion was accessioned with a high degree of original order. This order has been maintained as well as possible, with minimal rearrangement and relabeling of materials.

Box 48

Subseries 12a: Meetings: 1994-1999

This subseries consists primarily of agenda, correspondence and meeting notes for meetings of the ESO Council. Council meetings were held multiple times yearly. A lesser component of the subseries consists of individual committee meetings at the ESO Council meetings, management meetings and working group meetings.

- Box 48 of 84 Folders 1-3 ESO, 69th - 73rd Council Meeting
- Box 48 of 84 Folders 4-6 ESO, Correspondence 69th - 73rd Council Meeting
- Box 48 of 84 Folders 7-9 ESO, 74th Council Meeting, April 1994 and 75th Council Meeting, June 1994
- Box 48 of 84 Folders 10-12 ESO, 76th Council Meeting, August 1994
- Box 48 of 84 Folders 13-15 ESO, 77th Council Meeting, 1994
- Box 48 of 84 Folders 16-18 ESO, Monthly Management Meeting, 1994
- Box 48 of 84 Folders 19-21 ESO, 79th Council Meeting, June 1995
- Box 48 of 84 Folder 22 ESO 46th Committee Council, October 1995 (Folder 1 of 2)

Box 49

- Box 49 of 84 Folder 1 ESO 46th Committee Council, October 1995 (Folder 2 of 2)
- Box 49 of 84 Folders 2-4 ESO, 80th Council Meeting, November 1995
- Box 49 of 84 Folders 5-6 ESO, Monthly Management Meeting, April 1996 - August 1996
- Box 49 of 84 Folders 7-9 ESO, I - 81st Council Meeting, June 1996
- Box 49 of 84 Folders 10-11 ESO, II 81st Council Meeting, June 1996
- Box 49 of 84 Folders 12-14 ESO, Meeting Paris, July 10, 1996
- Box 49 of 84 Folder 15 ESO, Extraordinary Council Meeting October, 1996/DOC 598, 601 Conf. and 579 Conf.

- Box 49 of 84 Folders 16-18 ESO, 84th Council Meeting, December 1996
- Box 49 of 84 Folders 19-20 ESO, 85th Council Meeting, June 1997
- Box 49 of 84 Folder 21 ESO Committee of Council, September 1997 (Folder 1 of 3)
- Box 50
- Box 50 of 84 Folders 1-2 ESO Committee of Council, September 1997 (Folders 2-3 of 3)
- Box 50 of 84 Folders 3-5 ESO, Meeting with Prof. Courtillot, November 25, 1997
- Box 50 of 84 Folders 6-8 ESO, 86th Council Meeting, December 1997
- Box 50 of 84 Folders 9-14 ESO, Working Group, January 22, 1998
- Box 50 of 84 Folders 15-16 ESO, 87th Council Meeting, February 1998, Garching
- Box 50 of 84 Folders 17-18 ESO, 88th Council Meeting, June 11-12, 1998, Garching
- Box 50 of 84 Folders 19-20 ESO, 88th Council Meeting, June 11-12, 1998, Garching,
Correspondence Records
- Box 50 of 84 Folders 21-22 ESO 89th Extraordinary Meeting, September 15, 1998,
Garching
- Box 50 of 84 Folder 23 ESO, 90th Council Meeting, December 1998, Garching (Folder 1 of
3)
- Box 51
- Box 51 of 84 Folders 1-2 ESO, 90th Council Meeting, December 1998, Garching (Folders
2-3 of 3)
- Box 51 of 84 Folder 3 ESO, ECC Meeting, Garching, 29 March 1999
- Box 51 of 84 Folders 4-6 ESO, 91st Council Meeting, June 1999, Garching
- Box 51 of 84 Folder 7 ESO, 91st Council Meeting, June 21-22, 1999, Garching
- Box 51 of 84 Folder 8 ESO, 91st Council Meeting Presentation, June 1999
- Subseries 12b: ESO Reviews: 1994-1999
- This series consists of documents from ESO's annual organization-wide
review process.
- Box 51 of 84 Folders 9-11 ESO, Operations - I ESO Wide Review, February 1994
- Box 51 of 84 Folders 12-14 ESO, Operations - II ESO Wide Review, February 1994

- Box 51 of 84 Folders 15-17 ESO, Operations - ESO Wide Review, February 1995
- Box 51 of 84 Folders 18-20 ESO, Operations - II ESO Wide Review, February 1995
- Box 51 of 84 Folders 21-22 ESO, Operations - I ESO Wide Review, February 1996
(Folders 1-2 of 3)
- Box 52
- Box 52 of 84 Folder 1 ESO, Operations - I ESO Wide Review, February 1996 (Folder 3 of
3)
- Box 52 of 84 Folders 2-4 ESO, Operations - II ESO Wide Review, February 1996
- Box 52 of 84 Folders 5-7 ESO, Operations - I ESO Wide Review, February 1997
- Box 52 of 84 Folders 8-10 ESO, Operations - II ESO Wide Review, February 1997
- Box 52 of 84 Folders 11-12 ESO, Review 1997
- Box 52 of 84 Folders 13-16 ESO, Operations - ESO Wide Review Day I & II, February 2-5,
1998
- Box 52 of 84 Folders 17-20 ESO, Operations - ESO Wide Review Day III & IV, February
2-5, 1998
- Box 52 of 84 Folders 21-22 ESO, ESO Wide Review, Garching, February 1-4, 1999/Book
2 (Folders 1-2 of 3)
- Box 53
- Box 53 of 84 Folder 1 ESO, ESO Wide Review, Garching, February 1-4, 1999/Book 2
(Folder 3 of 3)
- Box 53 of 84 Folders 2-4 ESO Wide Review, 1999
- Subseries 12c: Institutions: 1993-1998
- This subseries consists of correspondence with other astronomical organizations around the world. The subseries is arranged alphabetically by organization and chronologically within each organization. A large fraction of the material from the Agenzia Spaziale Italiana and the material from the University of Milan is in Italian.
- Box 53 of 84 Folder 5 Agenzia Spaziale Italiana (ASI), Documents, 1995
- Box 53 of 84 Folder 6 ASI, Piano Quadro, 1995
- Box 53 of 84 Folders 7-8 ASI, Commissione dei Cinque, 1995
- Box 53 of 84 Folders 9-10 ASI, Documents, 1995-1996

- Box 53 of 84 Folders 11-15 ASI, Documents
- Box 53 of 84 Folder 16 ESO, Correspondence with Universities and Institutes, January
1993 - 1997 (AURA) (Folder 1 of 2)
- Box 54
- Box 54 of 84 Folder 1 ESO, Correspondence with Universities and Institutes, January
1993 - 1997 (AURA) (Folder 2 of 2)
- Box 54 of 84 Folders 2-5 ESO, Correspondence with Observatories (BRERA)s 1993-1998
- Box 54 of 84 Folder 6 ESO, Observatoire de Geneve, HARPS Science Proposal, January
29, 1999
- Box 54 of 84 Folder 7 ESO, Correspondence with Universities and Institutes, January
1993 - 1997 (Harvard)
- Box 54 of 84 Folders 8-11 ESO, International Center for Relativistic Astrophysics, August
1993 - February 1997
- Box 54 of 84 Folder 12 ESO, Correspondence with Universities and Institutes, January
1993 - 1997 (Johns Hopkins)
- Box 54 of 84 Folders 13-16 ESO, Projects Univ. di Milano I, January 1993 - March 1995
- Box 54 of 84 Folders 17-19 ESO, Science and Universities, Milan & Cornell, March 1995
- Box 54 of 84 Folders 20-23 ESO, Correspondence with Institutes - NASA, January 1993 -
March 1997
- Box 54 of 84 Folder 24 ESO, Science Institutes - NASA, April 1997

Subseries 12d: Chile: 1994-1998

This subseries documents the day to day bureaucratic records of the ESO installation in Chile. It consists of correspondence, memoranda, reports and legal documents. A good deal of the subseries deals with disagreements between ESO and the Chilean government over rights granted to ESO by a 1963 agreement.

Box 55

- Box 55 of 84 Folders 1-3 ESO, Chile, 1994
- Box 55 of 84 Folders 4-7 ESO, Chile, August 1994
- Box 55 of 84 Folder 8 ESO, Chile, November 1994
- Box 55 of 84 Folder 9 ESO, WG Relations with Chile, 9th Meeting, February 16, 1995

Box 55 of 84 Folder 10 ESO, Chile, Meeting of Chile Working Group, March 1, 1995

Box 55 of 84 Folders 11-14 ESO, Chile, April 1995

Box 55 of 84 Folders 15-16 ESO, Chile, April 19, 1995

Box 55 of 84 Folders 17-20 ESO, Chile, August 1995

Box 56

Box 56 of 84 Folders 1-4 ESO, Chile, December 1996

Box 56 of 84 Folders 5-6 ESO, Chile/Hotel 1998

Box 56 of 84 Folders 7-8 ESO, Chile

Box 56 of 84 Folders 9-10 ESO, Chile, Acuerdo

Subseries 12e: Telescopes: Very Large Telescope (VLT), Large Scale Array (LSA), National New Technology Telescope (NNTT): 1984-1987, 1989-1998

This subseries consists of technical and administrative materials relating to various telescopes developed and proposed at the ESO. The Very Large Telescope refers to one of four 8 meter telescopes developed and built by ESO in Chile. The Large Scale Array is an array of radio telescopes. The National New Technology Telescope was a proposed 15 meter telescope that was never funded.

Box 56 of 84 Folder 11 VLT Miscellaneous Reports, 1985, 1986, 1991

Box 56 of 84 Folder 12 ESO, VLT, Early Reports, 1986

Box 56 of 84 Folder 13 VLT, Miscellaneous Reports, 1986

Box 56 of 84 Folder 14 ESO, 2nd Workshop on VLT, Venice, 1986, Proceedings

Box 56 of 84 Folder 15 ESO, VLT, Proposal for Construction, March 1987

Box 56 of 84 Folder 16 ESO, VLT, Project Reports, 1989-1990

Box 56 of 84 Folder 17 ESO, VLT, Early Reports, 1989, 1991

Box 56 of 84 Folder 18 ESO, VLT Site Selection and Operations, ESO/Chile 1990

Box 56 of 84 Folder 19 VLT, Miscellaneous Reports, 1990

Box 57

Box 57 of 84 Folder 1 ESO, VLT, Project Reports, 1991-1993

Box 57 of 84 Folders 2-5 ESO, VLT Programme Review, January 11-15, 1993

- Box 57 of 84 Folders 6-9 VLT Programme Review, January 1993
- Box 57 of 84 Folder 10 VLT, Operations, January 1993
- Box 57 of 84 Folders 11-13 ESO, VLT Bi-weekly Meetings, Sept 1993 - July 1994
- Box 57 of 84 Folder 14 VLT, Ceremony at Paranal, December 4, 1996
- Box 57 of 84 Folder 15 ESO, VLT Division, 1997 Review
- Box 57 of 84 Folder 16 Large Southern Array (LSA), Study Project, October 1995
- Box 57 of 84 Folder 17 LSA/MMA, Management Working Group Meeting, September 1997
- Box 57 of 84 Folder 18 LSA/MMA Feasibility Study, April 1998
- Box 57 of 84 Folders 19-20 ESO, LSA, November 6, 1998
- Box 57 of 84 Folder 21 Preliminary Report of the NNTT Scientific Advisory Committee
1984

Subseries 12f: Operations and Budget: 1986, 1991, 1994-1996, 1999

This subseries consists primarily of materials detailing the operational plans, both current and proposed, for the ESO. There are also budget materials detailing the financial situation of the ESO for 1996.

- Box 57 of 84 Folder 22 ESO, Operations, 1996-2003; 1986, 1991, 1996 (Folder 1 of 2)
- Box 57 of 84 Folder 23 ESO, Operations, 1996-2003; 1986, 1991, 1996 (Folder 2 of 2)
- Box 57 of 84 Folder 24 ESO, Annual Operation Plan, 1994
- Box 57 of 84 Folder 25 ESO, Operation Plan Executive Summary, Blueprint for ESO/Chile
in 21st Century, 1994

Box 58

- Box 58 of 84 Folders 1-2 ESO, 1996 Budget Details, 1995
- Box 58 of 84 Folders 3-4 ESO, Director General WP, 1996
- Box 58 of 84 Folder 5 ESO, Executive Summary of ESO Long Range Plan, 1999-2006;
1999

Subseries 12g: Press Materials: 1995-1999, and undated

This subseries consists primarily of press releases put out by the ESO describing its operations. There are also clippings from the Chilean press, a

folder of "El Mensajero", the ESO news publication, and a folder of assorted reports about the ESO.

Box 58 of 84 Folder 6 Observations of the Chilean Press, March - April 1995

Box 58 of 84 Folders 7-9 ESO, Press Releases, 1996-1999

Box 58 of 84 Folder 10 ESO News Reel, June 1999

Box 58 of 84 Folder 11 ESO, Miscellaneous Brochures, 1995-2001

Box 58 of 84 Folder 12 ESO, Miscellaneous Documents, undated

Subseries 12h: Programmes: 2000

This subseries details some of the astronomic and scientific investigations taking place at ESO's La Silla site in Chile.

Box 58 of 84 Folders 13-14 ESO, Programmes Ext/La Silla 2000

Subseries 12i: Workshops: 1991, 2000

This subseries consists of workshop schedules, lists of participants and papers presented at scientific workshops.

Box 58 of 84 Folder 15 ESO, Workshop - Coating and Cleaning Large Mirrors, October 1991

Box 58 of 84 Folder 16 ESO/ST-ECF/STSci Workshop, October 2000

Subseries 12j: Assorted Materials: 1987, 1992, 1994, 1996, and undated

This subseries consists of assorted materials that do not easily fall into one of the other subseries. The subseries contains the "Basic Texts", which are the equivalent of the ESO constitution, a paper outlining the future computer network of ESO, a notebook apparently consisting of Giacconi's thoughts on applicant interviews for an unspecified position at ESO, two folders about the mind and the brain, materials relating to a proposed underground lab, and a folder of miscellaneous reports and proposals.

Box 58 of 84 Folder 17 ESO, Basic Texts, January 1987

Box 58 of 84 Folder 18 ESO Miscellaneous Documents, 1992, 1994

Box 58 of 84 Folder 19 Networking at ESO - The Strategy/Dave Muat, 1996

Box 58 of 84 Folders 20-21 Mind and Brain Information, 1999

Box 58 of 84 Folder 22 Associated Universities, Inc. Underground Lab, 2000-2001

Box 58 of 84 Folder 23 Riccardo Giacconi, Interviews (in spiral notebook)

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Series 13: National Aeronautics and Space Administration (NASA), 1965, 1967-1981

This series relates primarily to the activities of NASA advisory committees and study groups on which Giacconi served. The series contains meeting minutes, correspondence, reports, blueprints and other scientific background materials. There is also a collection of NASA announcements for participation in scientific research that Giacconi received over the years.

Box 59

Subseries 13a: Physical Sciences Committee (PSC): 1973-1977

This subseries consists of materials relating to Giacconi's time on the NASA Physical Sciences Committee. The subseries consists of correspondence, meeting minutes, agenda, and reports. The PSC was the main scientific committee responsible for NASA space research, and it was the forerunner of the Space Science Advisory Committee (Subseries 13b).

- Box 59 of 84 Folder 1 Official Correspondence, 1973-1974
- Box 59 of 84 Folders 2-3 Meeting Materials, 1974
- Box 59 of 84 Folders 4-10 Meeting Materials, 1975
- Box 59 of 84 Folders 11-13 Meeting Materials, 1976 (Folders 1-3 of 6)

Box 60

- Box 60 of 84 Folders 1-6 Meeting Materials, 1976 (Folders 4-6 of 6)
- Box 60 of 84 Folders 4-9 Meeting Materials, 1977
- Box 60 of 84 Folder 10 Employment Documents, 1975-1977

Subseries 13b: Space Sciences Advisory Committee: 1977-1981

This subseries consists of materials relating to Giacconi's time on the NASA Space Sciences Advisory Committee. The subseries consists of meeting minutes, agenda, presentations, pamphlets, and proposals. This committee was the descendant of the Physical Sciences Committee and served to help advise and direct NASA space science research.

- Box 60 of 84 Folder 11 A Distant Model Limit for a Class of Model Gamma-Ray Burst Sources, 1977
- Box 60 of 84 Folders 12-13 Astrophysics Project Concept Summaries, 1978
- Box 60 of 84 Folder 14 Gamma Ray Observatory, 1978
- Box 60 of 84 Folder 15 Hard X-Ray Imaging Instrument, 1978

- Box 60 of 84 Folder 16 HEAO-1 Correspondence, 1978
- Box 60 of 84 Folder 17 Mars: The Viking Discoveries, 1978
- Box 60 of 84 Folder 18 Spacelab Correspondence, 1978
- Box 60 of 84 Folder 19 Solar Terrestrial Programs, 1978
- Box 60 of 84 Folder 20 UAH/NASA Workshop on Space Science Platform, 1978

Box 61

- Box 61 of 84 Folder 1 Venus Orbiting Imaging Radar, 1978
- Box 61 of 84 Folders 2-7 Meeting Minutes and Background Materials, 1978-1980
- Box 61 of 84 Folders 8-9 Correspondence, 1979-1981
- Box 61 of 84 Folder 10 Voyager Pamphlet, undated

Subseries 13c: Advisory Council: 1979-1980

This subseries highlights Giacconi's involvement with the Innovative Committee of the NASA Advisory Committee. It consists of meeting materials, including agenda, minutes, presentations, reports and correspondence. The committee was looking at ways to improve NASA space program through new and innovative means. Much of the work dealt with improving the Space Shuttle.

- Box 61 of 84 Folders 11-13 Innovative Committee, 1979
- Box 61 of 84 Folders 14-15 Innovative Committee, 1980

Box 62

- Box 62 of 84 Folders 1-2 Innovative Committee 1980

Subseries 13d: Astronomy Missions Board: 1967-1970

This subseries covers Giacconi's involvement with the Astronomy Missions Board. It contains minutes, correspondence, reports and employment records.

- Box 62 of 84 Folder 3 Employment Records, 1967-1971
- Box 62 of 84 Folder 4 Board Minutes, November 1968
- Box 62 of 84 Folder 5 Board Minutes, December 1968
- Box 62 of 84 Folders 6-7 Correspondence, 1968-1969

- Box 62 of 84 Folder 8 Board Minutes, 1968-1969
- Box 62 of 84 Folder 9 Apollo Telescope Mount (ATM) Correspondence, 1968-1970
- Box 62 of 84 Folder 10 A Long Range Program in Space Astronomy, 1969
- Subseries 13e: High Energy Management Operations Working Group:
1973-1979
- This subseries deals with Giacconi's work on the High Energy Management Operations Working Group, sometimes known as HEAMOWG. The subseries consists of meeting minutes, agenda, and correspondence. HEAMOWG was primarily formed to deal with the management of the new orbiting astronomical observatories, such as Uhuru and the HEAO series.
- Box 62 of 84 Folders 11-13 High Energy Management Operations Working Group,
1973-1979
- Subseries 13f: Shuttle Utilization Advisory Committee: 1972
- This subseries deals with Giacconi's tenure on the Shuttle Utilization Advisory Committee. It consists of materials relating to the meeting of that committee, including minutes, agenda and correspondence.
- Box 62 of 84 Folders 14-15 Meeting Materials, 1972
- Subseries 13g: Study Group on X-Ray and Gamma Ray Astronomy: 1965
- This subseries consists of material from Giacconi's serving on the NASA Study Group on X-Ray and Gamma Ray Astronomy and the possibility of using space-based observatories to conduct observations.
- Box 62 of 84 Folder 16 Correspondence, 1965
- Box 62 of 84 Folder 17 Report, 1965
- Subseries 13h: Opportunities for Participation in Research: 1967-1981
- This subseries contains NASA announcements of research opportunities sent out to Giacconi (amongst other scientists) over the years.
- Box 62 of 84 Folder 18 Opportunities for Participating in Spaceflight Investigation, 1967
- Box 62 of 84 Folder 19 Opportunities for Participating in Spaceflight Investigation,
1968-1972
- Box 62 of 84 Folder 20 Opportunities for Participating in Spaceflight Investigation,
1973-1975

Box 63

- Box 63 of 84 Folders 1-3 Opportunities for Participation in Space Science Research,
1976-1981
- Subseries 13i: Reports: 1977-1978, 1980, 1987
- This subseries consists of reports put out by NASA on different subjects,
none of which seems to have much to do with space-based astronomy.
- Box 63 of 84 Folder 4 Surface Penetrator Research Report, 1977
- Box 63 of 84 Folder 5 Lunar Science Research Projects, 1978
- Box 63 of 84 Folder 6 Self-Replicating Systems, 1980
- Box 63 of 84 Folder 7 Remote-Sensing Technology and Global Needs, 1987
- Subseries 13j: Correspondence: 1973, 1977-1981
- This subseries consists of one folder of correspondence and memoranda
about various NASA projects and groups. It is labeled Miscellaneous in
keeping with Giacconi's original designation.
- Box 63 of 84 Folder 8 Miscellaneous, 1973, 1977-1981
- Subseries 13k: Publications: 1979
- This subseries consists of a glossy information brochure covering the
Voyager spacecraft's encounter with Jupiter.
- Box 63 of 84 Folder 9 Voyager Encounters Jupiter, 1979

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Series 14: National Academy of Sciences/National Research Council (NAS/NRC), 1970-1989

Box 63

Subseries 14a: Space Science Board: 1970-1975, 1978, 1980-1982

This subseries describes the activities of the Space Science Board, of which Giacconi was a member. The Space Science Board acted as an advisory board to NASA about science priorities. The subseries contains reports, blueprints, reviews, correspondence, meeting minutes and agenda. Much of the material is about the space shuttle and its potential use in space-based, high-energy astronomy.

- Box 63 of 84 Folders 11-14 Summer Study on NASA Space Science Priorities, 1970-1971
- Box 63 of 84 Folder 15 NASA Space Astronomy Program Review, 1972
- Box 63 of 84 Folder 16 Shuttle Sortie Workshop Report, 1972
- Box 63 of 84 Folders 17-19 Space Shuttle Summer Study Report (Woods Hole), 1973

Box 64

- Box 64 of 84 Folders 1-2 Space Shuttle Summer Study Materials (Woods Hole), 1973
- Box 64 of 84 Folder 3 Space Shuttle Summer Study Shuttle Telescope Blueprints (Woods Hole), 1973
- Box 64 of 84 Folder 4 Space Shuttle Summer Study High Energy Astronomy Report (Woods Hole), 1973
- Box 64 of 84 Folders 5-6 Space Shuttle Payload Planning Working Group Report, 1973
- Box 64 of 84 Folder 7 1974 Priorities Report of the Committee on Space Astronomy, 1973-1975
- Box 64 of 84 Folder 8 Space Plasma Physics Report Vol. 1, 1978
- Box 64 of 84 Folders 9-10 Data Management and Computation Issues and Recommendations, 1980
- Box 64 of 84 Folder 11 Board Meeting, October 1981
- Box 64 of 84 Folder 12 Board Meeting, November 1982

Subseries 14b: Astronomy Survey Committee (ASC): 1969-1971, 1974, 1979-1981

This subseries documents the Astronomy Survey Committee's survey of the current state and future of astronomy. The subseries consists of

correspondence, meeting minutes, agenda, and reports by the various panels of the committee. The ASC meets every ten years to survey the state of various disciplines of astronomy and to make predictions and recommendations about future research directions. Giacconi participated in the survey for the 1970s and the 1980s, particularly concentrating on the state of high energy astronomy such as x-ray astronomy.

- Box 64 of 84 Folders 13-14 Astronomy and Astrophysics for the 1970s, 1969-1971, 1974
- Box 64 of 84 Folder 15 HEA Panel Meetings 1979
- Box 64 of 84 Folder 16 Solar Physics Working Group Draft Report, 1979-1980
- Box 64 of 84 Folder 17 Preliminary Reports on Astronomy Disciplines, 1979-1980

Box 65

- Box 65 of 84 Folders 1-2 High Energy Astrophysics Panel Report Drafts, 1979-1981
- Box 65 of 84 Folder 3 March 1980 Committee Meeting
- Box 65 of 84 Folder 4 High Energy Astrophysics Panel - X-Ray Astronomy Draft, 1980
- Box 65 of 84 Folder 5 Astronomy and Astrophysics for the 1980s Final Draft Report, 1980
- Box 65 of 84 Folder 6 ASC Report 3rd Draft, 1981 (Folder 1 of 2)
- Box 65 of 84 Folder 7 ASC Report 3rd Draft, 1981 (Folder 2 of 2)
- Box 65 of 84 Folder 8 Report on the Panel of High Energy Astrophysics, 1981
- Box 65 of 84 Folder 9 PICAS Initiative, 1988

Subseries 14c: Correspondence: 1971-1982

This subseries contains correspondence to and from Giacconi and other members of the NAS.

- Box 65 of 84 Folder 10 1971-1973
- Box 65 of 84 Folder 11 1974
- Box 65 of 84 Folder 12 1975-1977
- Box 65 of 84 Folder 13 1978
- Box 65 of 84 Folder 14 1979-1980
- Box 65 of 84 Folder 15 Personal Information Update, 1980
- Box 65 of 84 Folders 16-17 1981-1982

- Box 65 of 84 Folder 18 Eureka Programme, 1982
- Subseries 14d: Committee on NASA Program Changes: 1981
- This subseries consists of material concerning the International Solar Polar Mission (ISPM) and how it might be changed or modified to make it more successful.
- Box 65 of 84 Folder 19 ISPM NASA Background Material, 1981
- Box 66
- Box 66 of 84 Folder 1 ISPM Review, 1981
- Box 66 of 84 Folder 2 ISPM Review Report, 1981
- Subseries 14e: Ad Hoc Committee on Classified Activities: 1971-1973
- This subseries deals with the activities of the Ad Hoc Committee on Classified Activities, which was formed to deal with the problem of classified information arising from NAS projects, and how to deal with the publication of scientific information having to do with those projects. The subseries contains correspondence and meeting minutes.
- Box 66 of 84 Folders 3-4 Correspondence and Minutes, 1971-1973
- Subseries 14f: Meetings: 1973, 1978, 1979, 1980, 1982
- This subseries consists of material relating to NAS meetings that Giacconi attended, including annual meetings and meetings related to NASA missions.
- Box 66 of 84 Folder 5 Assembly of Physical Sciences, 1973
- Box 66 of 84 Folder 6 Annual Meeting, 1978
- Box 66 of 84 Folder 7 Annual Meeting, 1979
- Box 66 of 84 Folder 8 Annual Meeting, 1980
- Box 66 of 84 Folder 9 Committee on NASA S&T Program Reviews, March 1982
- Box 66 of 84 Folder 10 Committee on NASA S&T Program Reviews, November 1982
- Box 66 of 84 Folder 11 NASA Aeronautics Program Reductions, 1982
- Subseries 14g: Publications: 1974, 1982, 1987, 1989
- This subseries contains various publications put out by NAS.

Box 66 of 84	Folder 12 Opportunities and Choices in Space Science, 1974
Box 66 of 84	Folder 13 Report of the Treasurer, 1982
Box 66 of 84	Folder 14 Science and Technology Centers: Principles and Guidelines, 1987
Box 66 of 84	Folder 15 Report from the Committee on the Structure of the Academy, 1987
Box 66 of 84	Folder 16 NAS Member Directory, 1989

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Series 15: Association of Universities for Research in Astronomy (AURA), 1970-1975, 1977-1978

This series highlights Giacconi's work on advisory committees for AURA in the 1970s. The series consists of meeting minutes, agenda, correspondence, proposals, bulletins, and biographies. AURA runs several large astronomical observatories in the United States and abroad. Giacconi served on several committees: the Next Generation Telescope Advisory Committee (NGT), the Ad Hoc Committee on the Kitt Peak Observatory Rocket Program, and the Visiting Committee. These committees were intended to investigate and suggest improvements for various AURA programs, especially the Kitt Peak National Observatory in Arizona and the Cerro Tololo Inter-American Observatory in Chile. Although AURA is the parent organization for STSI, there is no connection between this series and Series 11: STSI.

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Subseries 15a: NGT Advisory Committee: 1977-1978

This subseries consists of materials chronicling the meetings of the Next Generation Telescope Advisory Committee for AURA. The committee discussed plans for building a larger and more advanced telescope for optical astronomy.

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| Box 66 of 84 | Folder 17 Report #1, 1977 |
| Box 66 of 84 | Folder 18 Report #2, 1977 |
| Box 66 of 84 | Folder 19 Report #3, 1977 |
| Box 66 of 84 | Folder 20 Report #4, 1977 |
| Box 66 of 84 | Folder 21 Report #5, 1978 |
| Box 66 of 84 | Folder 22 Committee Meeting, November 1978 |
| Box 66 of 84 | Folders 23-24 Proposals, 1978 |

Subseries 15b: Ad Hoc Committee on the Kitt Peak National Observatory Rocket Program: 1972

This subseries documents the work of the Ad Hoc Committee on the KPNO Rocket Program. The subseries consists of correspondence. The committee was formed to discuss whether or not KPNO should continue with its program of rocket launches dedicated to high-energy astronomical observation.

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| Box 66 of 84 | Folder 25 Correspondence, 1972 |
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Subseries 15c: Visiting Committee: 1970-1975

This subseries deals with the activities of the AURA Visiting Committee, which travels to various AURA managed observatories to examine and evaluate their workings. The committee was mainly concerned with the Kitt

Peak National Observatory, but there is some material for the Cerro Tololo Inter-American Observatory in Chile.

- Box 66 of 84 Folder 25 Kitt Peak Background Material, 1970-1971
- Box 66 of 84 Folder 26 Correspondence, 1971
- Box 66 of 84 Folder 27 Correspondence, 1972

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- Box 67 of 84 Folder 1 Correspondence ,1973
- Box 67 of 84 Folder 2 Correspondence, 1974
- Box 67 of 84 Folder 3 Correspondence, 1975
- Box 67 of 84 Folder 4 KPNO and CTIO Quarterly Bulletin, 1971
- Box 67 of 84 Folder 5 KPNO and CTIO Quarterly Bulletins, 1973
- Box 67 of 84 Folder 6 KPNO and CTIO Quarterly Bulletins, 1974
- Box 67 of 84 Folder 7 KPNO and CTIO Quarterly Bulletin, 1975
- Box 67 of 84 Folder 8 KPNO and CTIO Annual Report, 1974
- Box 67 of 84 Folder 9 History of Users Committee, 1974
- Box 67 of 84 Folder 10 CTIO General Information, 1974
- Box 67 of 84 Folder 11 KPNO Scientist Profile,s 1975

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Series 16: X-Ray Astronomy Institute, 1974-1976, 1979-1980

This series consists of materials relating to the proposed foundation of a National X-Ray Astronomy Institute. The series contains correspondence and proposals relating to the foundation of the Institute. The X-Ray Astronomy Institute was supposed to be similar in function to the Space Telescope Science Institute but directing the efforts of various orbiting x-ray astronomy satellites such as Einstein (HEAO-B) and AXAF. The proposed institute never made it past the discussion phase.

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Box 67 of 84	Folder 13 Management Documents, 1974 and undated
Box 67 of 84	Folder 14 Correspondence, 1975
Box 67 of 84	Folder 15 Correspondence, 1976
Box 67 of 84	Folder 16 Correspondence, 1979-1980
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Series 17: National Science Foundation (NSF), 1980-1981

This series highlights Giacconi's work on the Astronomy Advisory Committee of the National Science Foundation in 1980-1981. The series consists primarily of meeting material of the committee including minutes, agenda, and correspondence. There is also an annual report of the National Science Foundation from 1981.

Box 67

- Box 67 of 84 Folder 18 Astronomy Advisory Committee Arcibo, 1980
- Box 67 of 84 Folders 19-20 Astronomy Advisory Committee Meeting, September 1980
- Box 67 of 84 Folder 21 Astronomy Advisory Committee Meeting, April 1981
- Box 67 of 84 Folder 22 Astronomy Advisory Committee Meeting, September 1981

Box 68

- Box 68 of 84 Folder 1 Annual Report, 1981
- Box 68 of 84 Folder 2 Science and Technology Research Centers Solicitation, 1987

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Series 18: International Astronomical Union (IAU), 1964-1989, and undated

Box 68

Subseries 18a: Correspondence: 1964, 1967-1969, 1972, 1980-1984, 1987, 1989

This subseries consists of correspondence relating to Giacconi's association with the International Astronomical Union. The correspondence consists of general correspondence relating to affairs of the IAU and more specifically to preparations for meetings on topics in which Giacconi was interested, such as the HST.

Box 68 of 84 Folder 3 General, 1978, 1980-1982, 1989

Box 68 of 84 Folder 4 Astronomer's Handbook, 1982, 1984

Box 68 of 84 Folder 5 Dean, John G., 1986

Box 68 of 84 Folder 6 Definition of the Meter, 1983

Box 68 of 84 Folder 7 IAU Representative to COSPAR, 1982-1983

Box 68 of 84 Folder 8 Joint Discussion about HST, 1987-1988

Box 68 of 84 Folder 9 Joint Meeting on Supernovae, 1982, 1984

Box 68 of 84 Folder 10 Membership, 1964, 1967-1969, 1972, 1981-1982, 1987

Box 68 of 84 Folder 11 Protests against Extraneous Space Objects, 1987

Subseries 18b: Groups: 1972, 1977, 1979, 1982-1988, and undated

This subseries documents the specific groups and commissions in which Giacconi was interested at IAU meetings. Commission #44 deals with Astronomy from Space Astrophysics, and Commission #48 deals with High Energy Astrophysics. The two commissions have now merged into one body under the title Commission #44/Division XI.

Box 68 of 84 Folder 12 Commission #44, 1977, 1979, 1986

Box 68 of 84 Folder 13 Commission #48 Correspondence, 1972, 1982-1985, 1987

Box 68 of 84 Folder 14 Commission #48 Membership Lists, 1985-1986 and undated

Box 68 of 84 Folder 15 U.S. National Committee, 1985-1988

Box 68 of 84 Folder 16 Working Group on Numerical Data, 1972

Subseries 18c: Publications: 1986

This subseries contains one information bulletin about the IAU.

Box 68 of 84

Folder 17 Information Bulletin #56, 1986

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Series 19: Professional Societies, 1967, 1972, 1975-1976, 1978, 1980-1990

This series relates to professional scientific organizations to which Giacconi belonged. The series consists of newsletters, reports, bulletins, and correspondence. This series is closely related to Series 20, Professional Meetings, as many of the meetings that Giacconi attended were put on by these organizations, especially the American Astronomical Society or AAS.

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Box 68 of 84	Folder 18 Accademia Nazionale Dei Lincei, 1986-1988
Box 68 of 84	Folder 19 AAAS Correspondence, 1988-1989
Box 68 of 84	Folder 20 AAAS Reports and Bulletins, 1987-1989
Box 68 of 84	Folder 21 AAS Correspondence, 1972, 1975, 1978, 1980-1982
Box 68 of 84	Folder 22 AAS High Energy Astronomy Division, 1983, 1987-1988
Box 68 of 84	Folder 23 AAS Newsletters, 1989
Box 68 of 84	Folder 24 American Institute of Aeronautics and Astronautics, 1987-1988
Box 68 of 84	Folder 25 American Physical Society, 1967, 1976, 1982-1983, 1987-1988
Box 68 of 84	Folder 26 Astronomical Society of the Pacific, 1986
Box 68 of 84	Folder 27 COSPAR, 1982, 1985, 1988
Box 68 of 84	Folder 28 International Academy of Astronautics, 1986-1990
Box 68 of 84	Folder 29 International Astronomical Federation, 1984, 1986
Box 68 of 84	Folder 30 Italian Physical Society, 1988

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Series 20: Professional Meetings, 1960, 1962, 1964-1982

This series details the numerous professional scientific meetings that Giacconi attended between 1960 and 1981. The series is comprised of correspondence, conference programs, conference proceedings, and copies of lectures delivered by Giacconi. The definition of "meeting" was made by Giacconi himself in his filing. It is a wide definition, ranging from international astronomical conferences, to physics department colloquia, to junior tutorials at Harvard. There are a number of papers delivered by Giacconi within the records but almost all of them is a variation on the title "New Developments in X-Ray Astronomy".

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- Box 68 of 84 Folder 31 X-Ray Astronomy Conference at SAO (Cambridge), 1960
- Box 68 of 84 Folder 32 3rd International Symposium on X-Ray Optics and X-Ray Microanalysis (Palo Alto), 1962
- Box 68 of 84 Folder 33 Correspondence re: Meetings, 1963-1967, 1970
- Box 68 of 84 Folder 34 5th International Cospar Space Science Symposium (Florence), 1964
- Box 68 of 84 Folder 35 American Physical Society/American Association of Physics Teachers (New York), 1964
- Box 68 of 84 Folder 36 2nd Texas Symposium on Relativistic Astrophysics (Austin), 1964-1965
- Box 68 of 84 Folder 37 2nd Texas Symposium Slides (Austin), 1965
- Box 68 of 84 Folder 38 Astrophysics Colloquium on X-Ray Astronomy (University of Chicago), 1965
- Box 68 of 84 Folder 39 High Energy Astrophysics Course of the International School of Physics (Varenna), 1965
- Box 68 of 84 Folder 40 Woods Hole Summer Study (Woods Hole), 1965
- Box 68 of 84 Folder 41 University of Chicago Physics Colloquium, 1966

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- Box 69 of 84 Folder 1 Cornell Physics Colloquium (Ithaca), 1966
- Box 69 of 84 Folder 2 AAAS Symposium on UV, X-Ray and Gamma-Ray Astronomical Observations (Washington), 1966
- Box 69 of 84 Folder 3 AAAS Helen B. Warner Prize (Los Angeles), 1966
- Box 69 of 84 Folder 4 MIT Colloquium (Cambridge), 1966
- Box 69 of 84 Folder 5 American Physical Society (Minneapolis), 1966

- Box 69 of 84 Folder 6 Rice University Space Science Symposium (Houston), 1966
- Box 69 of 84 Folder 7 American Institute of Aeronautics and Astronautics (Boston), 1966
- Box 69 of 84 Folder 8 Italian Physics Society (Bologna), 1967
- Box 69 of 84 Folder 9 10th International Conference of Cosmic Rays (Calgary), 1967
- Box 69 of 84 Folder 10 International Astronomical Union (IAU) (Prague), 1967
- Box 69 of 84 Folder 11 ESLAB Symposium "Satellite and Rocket Measurements of Corpuscular Radiation from Outer Space" (Noordwijk), 1967
- Box 69 of 84 Folder 12 3rd Texas Symposium on Relativistic Astrophysics (New York), 1967
- Box 69 of 84 Folder 13 American Physical Society (New York), 1967
- Box 69 of 84 Folder 14 Industrial Associates Conference at Cal Tech (Pasadena), 1967
- Box 69 of 84 Folder 15 4th Texas Symposium on Relativistic Astrophysics (Dallas), 1968
- Box 69 of 84 Folder 16 Cornell Colloquium (Ithaca), 1968
- Box 69 of 84 Folder 17 AIAA Space and Atmospheric Committee Meeting (Boulder), 1968
- Box 69 of 84 Folder 18 American Physical Society (Los Alamos), 1968
- Box 69 of 84 Folder 19 Institute for Applied Behavioral Science (Washington), 1968
- Box 69 of 84 Folder 20 Special Conference for New England Executives in Electrical Science and Engineering: New Prospects for Corporate Growth (Boston), 1968
- Box 69 of 84 Folder 21 Center for Advancement of Science Writing (Evanston), 1968
- Box 69 of 84 Folder 22 American Physical Society (Miami), 1968
- Box 69 of 84 Folder 23 Univ. of Rochester Cosmic Ray Astrophysics Seminar (Rochester), 1968
- Box 69 of 84 Folder 24 AIAA New England Section Meeting (Boston), 1968
- Box 69 of 84 Folder 25 British National Committee on Space Research (London), 1968
- Box 69 of 84 Folder 26 IAU Colloquium on Space Spectroscopy (Evanston), 1968
- Box 69 of 84 Folder 27 American Physical Society New England Section (Mt. Holyoke), 1969
- Box 69 of 84 Folder 28 OSO Satellite Workshop (Boulder), 1969

Box 69 of 84 Folder 29 IEEE International Geoscience Electronics Symposium (Washington), 1969

Box 69 of 84 Folder 30 11th International Conference on Cosmic Rays (Budapest), 1969

Box 69 of 84 Folder 31 Denver X-Ray Conference (Denver), 1969

Box 69 of 84 Folder 32 IAU Non-Solar Gamma and X-Ray Astronomy (Rome), 1969

Box 69 of 84 Folder 33 Society of American Value Engineers, 1970

Box 69 of 84 Folder 34 American Astronomical Society (AAS) (Boulder), 1970

Box 69 of 84 Folder 35 IAU Crab Nebula Symposium (Jodrell Bank), 1970

Box 69 of 84 Folder 36 5th Texas Symposium on Relativistic Astrophysics (Austin), 1970

Box 69 of 84 Folder 37 IAU Symposia (Munich and Brighton), 1970

Box 69 of 84 Folder 38 Cal Tech Colloquium (Pasadena), 1971

Box 69 of 84 Folder 39 Brown University Colloquium (Providence), 1971

Box 69 of 84 Folder 40 American Physical Society (Cambridge), 1971

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Box 69 of 84 Folder 42 Indiana University Colloquium (Bloomington), 1971

Box 69 of 84 Folder 43 Marshall Space Flight Center Symposium (Huntsville), 1971

Box 69 of 84 Folder 44 Harvard College Tutorial (Cambridge), 1971

Box 69 of 84 Folder 45 Goddard Space Flight Center Colloquium (Greenbelt), 1971

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- Box 69 of 84 Folder 53 12th International Conference on Cosmic Rays (Hobart, Tasmania), 1971
- Box 69 of 84 Folder 54 AAS (Baton Rouge), 1971
- Box 69 of 84 Folders 55-56 Cospar (Madrid), 1972
- Box 69 of 84 Folder 57 Cospar Program (Madrid), 1972
- Box 69 of 84 Folder 58 Boston College/American Physical Society (Boston), 1972
- Box 69 of 84 Folder 59 AAS Meeting (Seattle), 1972
- Box 69 of 84 Folder 60 Princeton Conference on Compact X-Ray Sources (Princeton), 1972
- Box 69 of 84 Folder 61 6th June Institute (Toronto), 1972
- Box 69 of 84 Folder 62 Royal Society Meeting (London), 1972
- Box 69 of 84 Folder 63 Univ. of Houston Seminar (Houston), 1972
- Box 69 of 84 Folder 64 American Physical Society (Washington), 1972
- Box 69 of 84 Folder 65 Univ. of Illinois Astrophysics Colloquium (Urbana), 1972
- Box 69 of 84 Folder 66 AAS Meeting (Pasadena), 1972
- Box 69 of 84 Folder 67 Univ. of Minnesota Colloquium "Xray Astronomy and Binary Stars," 1972
- Box 69 of 84 Folder 68 6th Texas Symposium on Relativistic Astrophysics (New York), 1972
- Box 70
- Box 70 of 84 Folder 1 6th Texas Symposium Proceedings "Progress in X-Ray Astronomy," 1973
- Box 70 of 84 Folder 2 Erice Summer Study (Palermo), 1972
- Box 70 of 84 Folder 3 Summer Study Group on Theoretical Astrophysics (Frascati), 1972
- Box 70 of 84 Folder 4 ESRO (European Space Research Organization) Lecture (Frascati), 1972
- Box 70 of 84 Folder 5 Theoretical Workshop on Physics of Compact X-Ray Sources (Kitts Peak), 1972-1973
- Box 70 of 84 Folder 6 Harvard Science Center Dedication (Cambridge), 1973

- Box 70 of 84 Folder 7 XVIth International Solvay Conference on Physics (Brussels), 1973-1975
- Box 70 of 84 Folder 8 IAU Extraordinary General Assembly (Warsaw), 1973
- Box 70 of 84 Folder 9 IAU Symposium #64 (Warsaw), 1973
- Box 70 of 84 Folder 10 U. Chicago Symposium at Yerkes Observatory (Wisconsin), 1973
- Box 70 of 84 Folder 11 X-Ray Symposium - Goddard Space Flight Center (Greenbelt), 1973
- Box 70 of 84 Folder 12 American Physical Society (New York), 1973
- Box 70 of 84 Folder 13 Naval Research Laboratory Symposium (Washington), 1973
- Box 70 of 84 Folder 14 New York Academy of Sciences, 1973
- Box 70 of 84 Folder 15 International Conference on Supernovae (Lecce), 1973
- Box 70 of 84 Folder 16 Univ. of Wisconsin Colloquium (Madison), 1973
- Box 70 of 84 Folder 17 International Symposium on Gamma-Ray Astrophysics (Greenbelt), 1973
- Box 70 of 84 Folder 18 IAU Symposium #66 (Warsaw), 1973
- Box 70 of 84 Folder 19 Cambridge Summer School (England), 1973
- Box 70 of 84 Folder 20 13th International Cosmic Ray Conference (Denver), 1973
- Box 70 of 84 Folder 21 IAF Conference (Baku), 1973
- Box 70 of 84 Folder 22 International Conference "X-Rays in Space," 1973
- Box 70 of 84 Folder 23 International School of Cosmology and Gravitation (Bologna), 1973
- Box 70 of 84 Folder 24 American Physical Society/American Astronomy Society Joint Meeting (Tucson), 1973
- Box 70 of 84 Folder 25 Smithsonian Council (Tucson), 1973
- Box 70 of 84 Folders 26-28 Woods Hole Summer Study (Woods Hole), 1973
- Box 70 of 84 Folder 29 Editorial Committee Meeting - Annual Review of Astronomy and Astrophysics (Cambridge), 1974
- Box 70 of 84 Folder 30 IAU Colloquium #27 (Boston), 1974
- Box 70 of 84 Folder 31 Marshall Space Flight Center Space Science Seminar (Huntsville), 1974

- Box 70 of 84 Folder 32 Astrophysics Workshop on Compact X-Ray Sources (Trieste), 1974
- Box 70 of 84 Folder 33 Elmbrook Talk, 1974
- Box 70 of 84 Folder 34 7th Texas Symposium (Dallas), 1974-1975
- Box 70 of 84 Folder 35 7th Texas Symposium Proceedings "Her X-1 and Cen X-3 Revisited," 1974
- Box 70 of 84 Folder 36 Varenna Summer School Correspondence w/ Attendees (Varenna), 1974-1975
- Box 70 of 84 Folder 37 Varenna Summer School Correspondence/Program (Varenna), 1974-1975
- Box 70 of 84 Folder 38 Johns Hopkins University Symposium (Baltimore), 1974-1976
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- Box 70 of 84 Folder 40 14th International Cosmic Ray Conference (Munich), 1975
- Box 70 of 84 Folder 41 Marcel Grossman Meeting (Trieste), 1975
- Box 70 of 84 Folder 42 "Frontiers of Astronomy" Conference (Trieste), 1975
- Box 70 of 84 Folder 43 Cospar/IAU Symposium (Varna), 1975
- Box 70 of 84 Folder 44 Goddard Symposium on X-Ray Binaries (Greenbelt), 1975
- Box 70 of 84 Folder 45 International School of Astrophysics (Urbino), 1975
- Box 70 of 84 Folder 46 International Conference on Space Observatories (Williamsburg), 1975-1976
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- Box 71 of 84 Folders 1-2 8th Texas Symposium on Relativistic Astrophysics (Boston), 1975-1977
- Box 71 of 84 Folders 3-4 International School of Physics "Enrico Fermi" (Varenna), 1975-1978
- Box 71 of 84 Folder 5 Accademia Nazionale Dei Lincei (Rome), 1976
- Box 71 of 84 Folder 6 IAU Commission 44 (Grenoble), 1976
- Box 71 of 84 Folder 7 Astrophysics Workshop on Astrophysical Environments (Aspen Center for Physics), 1976
- Box 71 of 84 Folder 8 SAO/NASM Lecture "New Windows on the Universe," 1976

- Box 71 of 84 Folder 9 AAAS Annual Meeting (Boston), 1976
- Box 71 of 84 Folder 10 NAS Space Science Symposium (Washington, D.C.), 1976
- Box 71 of 84 Folder 11 ESO Workshop "Optical Observations of Compact Galactic X-Ray Sources" (Geneva), 1978
- Box 71 of 84 Folder 12 Cospar Working Group #3, 1976
- Box 71 of 84 Folder 13 American Physical Society (Washington), 1976
- Box 71 of 84 Folder 14 HEAD/AAS (Cambridge), 1976
- Box 71 of 84 Folder 15 International School of Astrophysics (Urbino), 1976
- Box 71 of 84 Folder 16 "New Windows on the Universe" Boston Museum of Science Lecture Series, 1977
- Box 71 of 84 Folder 17 Harvard Center for Earth and Planetary Physics (Cambridge), 1977
- Box 71 of 84 Folder 18 Goodspeed-Richards Memorial Lecture - Univ. Of Pennsylvania (Philadelphia), 1977
- Box 71 of 84 Folder 19 NASA Special Tutorial for Noel Hinners, 1977
- Box 71 of 84 Folder 20 Radiation Background in Space Workshop (San Francisco), 1977
- Box 71 of 84 Folder 21 8th Texas Symposium Article, 1977
- Box 71 of 84 Folder 22 MIT Colloquium - Survey of 4U Results (Cambridge), 1977
- Box 71 of 84 Folder 23 "Active Nuclei - Missing Mass" - Niels Bohr Institute (Copenhagen), 1977
- Box 71 of 84 Folder 24 Tokyo Lectures, 1977
- Box 71 of 84 Folder 25 HEAD/AAS (Honolulu), 1977
- Box 71 of 84 Folder 26 Joint US/USSR Workshop on Cosmic X-Ray Sources, 1977
- Box 71 of 84 Folder 27 Cospar (Tel Aviv), 1977
- Box 71 of 84 Folder 28 Summer Courses of the International School of Physics (Enrico Fermi) (Varenna), 1977
- Box 71 of 84 Folder 29 ASPRA Colloquium (Boston), 1977
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- Box 71 of 84 Folder 31 Cospar/IAU Symposium, 1977

- Box 71 of 84 Folder 32 Harvard/MIT Joint Lectures - New Windows in the Universe: X-Ray Astronomy (Cambridge), 1976-1977
- Box 71 of 84 Folder 33 American Physical Society Spring Meeting (Washington), 1977
- Box 71 of 84 Folder 34 X-Ray and Gamma-Ray Astronomy in the 1980s (Spitzingsee), 1978
- Box 71 of 84 Folder 35 Goddard Memorial Symposium (Washington), 1978
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- Box 71 of 84 Folder 37 American Association of Variable Star Observers, 1978
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- Box 71 of 84 Folder 41 Meetings Giacconi Couldn't Attend, 1979
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- Box 72 of 84 Folder 1 IAU (Quebec), 1979
- Box 72 of 84 Folder 2 IAU Symposium 92 (Los Angeles), 1979
- Box 72 of 84 Folder 3 AIAA "Global Technology 2000" (Baltimore), 1979
- Box 72 of 84 Folder 4 Symposium on X-Ray Astronomy (Tokyo), 1979
- Box 72 of 84 Folder 5 NATO Advanced Study Institute (Erice), 1979
- Box 72 of 84 Folder 6 Meetings Giacconi Could Not Attend, 1980
- Box 72 of 84 Folder 7 AAS Council Meeting (San Francisco), 1980

- Box 72 of 84 Folder 8 Lecture at University of Rhode Island, 1980
- Box 72 of 84 Folder 9 Princeton Colloquium (Princeton), 1980
- Box 72 of 84 Folder 10 Harvard Junior Tutorial (Cambridge), 1980
- Box 72 of 84 Folder 11 Princeton Workshop "X-Ray Emission from Clusters of Galaxies," 1980
- Box 72 of 84 Folder 12 American Physical Society (MIT), 1980
- Box 72 of 84 Folder 13 AAS Council Meeting (College Park), 1980
- Box 72 of 84 Folder 14 MIT Physics Department Colloquium (Cambridge), 1980
- Box 72 of 84 Folder 15 CASW Meeting - New Horizons in Science (Durham), 1980
- Box 72 of 84 Folder 16 Milan, 1980
- Box 72 of 84 Folders 17-18 Accademia Nazionale Dei Lincei Lectures (Rome), 1980
- Box 72 of 84 Folder 19 Royal Astronomical Society Meeting (Cardiff), 1980
- Box 72 of 84 Folder 20 Max Planck Institut Colloquium (Munich), 1980
- Box 72 of 84 Folder 21 10th Texas Symposium on Relativistic Astrophysics (Baltimore), 1980
- Box 72 of 84 Folder 22 Franklin Institute Medal Day Awards (Philadelphia), 1980
- Box 72 of 84 Folder 23 University of Utah "Frontiers of Science" Lecture Series (Salt Lake City), 1980
- Box 72 of 84 Folder 24 1980 HEAD/AAS Meeting Proceedings, 1980 (Folder 1 of 2)
- Box 72 of 84 Folder 25 1980 HEAD/AAS Meeting Proceedings, 1980 (Folder 2 of 2)
- Box 72 of 84 Folder 26 1980 HEAD/AAS Meeting Proceedings Correspondence, 1980-1981
- Box 72 of 84 Folder 27 Meetings Giacconi Could Not Attend, 1981
- Box 72 of 84 Folder 28 AAS Council Meeting (Albuquerque), 1981
- Box 72 of 84 Folders 29-30 15th ESLAB Symposium (Amsterdam), 1981
- Box 72 of 84 Folder 31 15th ESLAB Symposium Proceedings, 1981
- Box 73
- Box 73 of 84 Folders 1-2 AAS Meeting (Calgary), 1981

- Box 73 of 84 Folder 3 158th Meeting of AAS "Dannie Heineman Prize" (Calgary), 1981
- Box 73 of 84 Folder 4 Ciclo di Conferenza (Rome), 1981
- Box 73 of 84 Folder 5 Ciclo di Conferenza Proceedings (Rome), 1981
- Box 73 of 84 Folder 6 IAU 17th General Assembly (Patras), 1981
- Box 73 of 84 Folder 7 14th Texas Symposium, 1982
- Box 73 of 84 Folder 8 IAU (Bologna), 1984
- Box 73 of 84 Folder 9 IAU 20th General Assembly (Baltimore), 1984-1988
- Box 73 of 84 Folder 10 IAU Colloquium "Physics of Formation of Fell Lines Outside LTE, 1985
- Box 73 of 84 Folder 11 IAU Symposium #124 (Beijing), 1985-1986
- Box 73 of 84 Folder 12 IAU Symposium #125 (Nanjing), 1986
- Box 73 of 84 Folder 13 IAU Symposium #130, 1986
- Box 73 of 84 Folder 14 COSPAR/IAU Symposium of the Physics of Compact Objects (Sofia), 1987
- Box 73 of 84 Folder 15 AAS (Boston), 1989
- Box 73 of 84 Folder 16 AAS Meeting (Washington, D.C.), 1990
- Box 73 of 84 Folder 17 IAU Symposium "Active Galactic Nuclei and Star Formation," 1991

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Series 21: Montedison S.p.A., 1985-1988

This series deals with Giacconi's time as a consultant for Italian chemical conglomerate, Montedison S.p.A. Giacconi served as President and later Chairman of the Board for the Istituto Donegani, the research arm of Montedison. The series consists of itineraries, meeting agenda, correspondence, brochures, clippings, reports, and organizational documents. Much of this series is in Italian.

Box 73

Subseries 21a: Meetings and Visits

This subseries consists of materials relating to the many meetings Giacconi attended and visits that he made during the course of his association with Montedison. The subseries contains itineraries, correspondence, meeting agenda and drafts of presentations.

- Box 73 of 84 Folders 18-19 Milan March 14, 1985
- Box 73 of 84 Folder 20 Dossier Per Il Convengo Di Washington, 1986
- Box 73 of 84 Folders 21-22 Science and Technology Between International Cooperation and Competition, 1986
- Box 73 of 84 Folders 23-24 Science and Technology Program, 1986
- Box 73 of 84 Folder 25 Milan, March 1987
- Box 73 of 84 Folder 26 Le Piste della Ricerca: I Tragguardia dell'Europa 2000, April 1987
- Box 73 of 84 Folder 27 Milan, June 1987
- Box 73 of 84 Folder 28 Milan, July 30, 1987 and April 26, 1987
- Box 73 of 84 Folders 29-30 Milan - Osservatorio di Brera, September 1987

Box 74

- Box 74 of 84 Folder 1 Biospherics Talk, November 9, 1987
- Box 74 of 84 Folder 2 Meeting with Professor Conti, November 19, 1987
- Box 74 of 84 Folder 3 Talk in Rome, December 9, 1987
- Box 74 of 84 Folder 4 Milan Visit, December 1987
- Box 74 of 84 Folder 5 Visiting Committee, March 1988
- Box 74 of 84 Folder 6 Donegani Visit, March 28-30, 1988

Subseries 21b: Correspondence

This subseries consists of correspondence to and from Giacconi concerning Montedison matters.

- Box 74 of 84 Folder 7 Fellowship, 1985-1987
- Box 74 of 84 Folder 8 Commtech International, 1986
- Box 74 of 84 Folder 9 1986-1987
- Box 74 of 84 Folder 10 1987
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Subseries 21c: Reports

This subseries contains reports on the research activities undertaken by Istituto Donegani scientists.

- Box 74 of 84 Folder 12 Institute Activities, 1986
- Box 74 of 84 Folder 13 Progress Reports, 1986-1987
- Box 74 of 84 Folder 14 1986 Research Results, 1987
- Box 74 of 84 Folder 15 Research Activities, 1987 and undated
- Box 74 of 84 Folder 16 Ricerca E Sviluppo del Grupo Montedison, undated
- Box 74 of 84 Folder 17 Detection of Distant Galaxy Clusters, 1989

Subseries 21d: Organizational Documents

This subseries consists of documents that outline the structure of Istituto Donegani, its personnel and its budget.

- Box 74 of 84 Folder 18 Institute Budget, 1986
- Box 74 of 84 Folder 19 Personnel Distribution, 1986
- Box 74 of 84 Folder 20 Scientist Directory, 1986
- Box 74 of 84 Folder 21 Institute Background, 1987
- Box 74 of 84 Folder 22 Corporate Composition, undated

Subseries 21e: Brochures

This subseries contains corporate brochures from Istituto Donegani, Montedison and Dow Chemicals.

Box 74 of 84 Folder 23 Institute Brochure, 1986

Box 74 of 84 Folder 24 1985 Montedison Brochure, 1987

Box 74 of 84 Folder 25 Dow Brochures, 1986-1988

Subseries 21f: Clippings: 1986-1988

This subseries contains clippings about Montedison and Istituto Donegani.

Box 74 of 84 Folder 26 La Chimica and La Industria, 1986

Box 74 of 84 Folder 27 1987-1988

Subseries 21g: Historical Documents: 1987

This subseries contains the facsimile printing of a Renaissance astronomy manuscript by Johannis De Dondis. It seems to have been produced with support from the Montedison company.

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Box 75 of 84 Folder 1 Renaissance Astronomy Manuscript, 1987

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Series 22: Correspondence, 1960, 1967, 1969-1992

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Subseries 22a: Chronological Correspondence: 1960, 1967, 1969-1981

This subseries consists of the professional and personal correspondence of Giacconi while at ASE and the Harvard-Smithsonian Center for Astrophysics. During this period Giacconi maintained his correspondence chronologically, with minimal subject headings.

Box 75 of 84	Folder 2 1960, 1967, 1970-1971
Box 75 of 84	Folder 3 Personal, 1969
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Box 75 of 84	Folder 10 1972-1973
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Box 76 of 84	Folders 1-2 1979
Box 76 of 84	Folders 3-4 1980

Box 76 of 84 Folder 5 Kipanta, Nestor, 1980-1981

Box 76 of 84 Folders 6-7 1981

Subseries 22b: Alphabetic Correspondence: 1967, 1973-1992

The second subseries of correspondence ranges in time from 1967 to 1992, with the bulk of the material from the years 1981 to 1989. This period corresponds to Giacconi's time as head of the Space Telescope Science Institute. Although it covers his time at STSI, the correspondence does not directly concern his activities there. Much of this subseries consists of letters of recommendation that Giacconi wrote for others.

Box 76 of 84 Folder 8 Abell Cluster Project, 1985

Box 76 of 84 Folder 9 Aeritalia, 1987

Box 76 of 84 Folder 10 Albrecht, Rudolph, 1981-1983

Box 76 of 84 Folder 11 Amateur Astronomers, 1988-1989

Box 76 of 84 Folder 12 Amateur Astronomers of Cortina, 1987

Box 76 of 84 Folder 13 American Association of Variable Star Observers, 1987

Box 76 of 84 Folder 14 Anderson, Peggy, 1985

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Box 76 of 84 Folder 16 Astronomers, Washington Area, 1989

Box 76 of 84 Folder 17 Austin, Arthur, 1984-1985

Box 76 of 84 Folder 18 Avni, Yoram, 1982, 1985

Box 76 of 84 Folder 19 Bahcall, John, 1984, 1987-1990

Box 76 of 84 Folder 20 Baldini, 1985

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Box 76 of 84 Folder 23 Bechtold, Jill, 1982, 1984-1985, 1987-1988

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Box 76 of 84 Folder 26 Belloni, Tomaso, 1988

Box 76 of 84 Folder 27 Bertola, Francesco, 1986, 1988-1989

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Box 76 of 84 Folder 33 Bohringer, Hans, 1990

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Box 76 of 84 Folder 35 Brankuardi-Raymont, Graziella, 1986

Box 76 of 84 Folder 36 Brookings Institute, 1986

Box 76 of 84 Folder 37 Bucciarelli, Beatrice, 1988

Box 76 of 84 Folder 38 Bulkin, Bertram, 1986

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Box 77 of 84 Folder 2 Chincarini, Guido, 1985, 1989-1990

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Box 77 of 84 Folder 5 Davies, Roger, 1986

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Box 77 of 84 Folder 7 Dias, R. Bruce, 1981

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Box 77 of 84 Folder 10 Dyson, Freeman, 1988

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Box 77 of 84 Folder 12 Fabbiano, Giuseppina, 1988

Box 77 of 84 Folder 13 Fastie, William, 1976, 1982-1983, 1988-1989

Box 77 of 84 Folders 14-15 Feigelson, Eric, 1974-1977, 1979-1982, 1984-1989

Box 77 of 84 Folder 16 Feynman, Richard, 1987

Box 77 of 84 Folder 17 Fermilab Astrophysics Visiting Committee, 1985

Box 77 of 84 Folder 18 Field, George, 1984, 1986-1987, 1989

Box 77 of 84 Folder 19 Forman, William and Christine, 1983

Box 77 of 84 Folder 20 Gallagher, John, 1982

Box 77 of 84 Folder 21 Galli, Mario, 1985

Box 77 of 84 Folder 22 Garwin, Richard ,1988-1989

Box 77 of 84 Folder 23 Giaretta, David, 1988

Box 77 of 84 Folder 24 Gioia, Isabella, 1984

Box 77 of 84 Folder 25 Goldberg, Leo, 1987

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Box 78 of 84 Folder 5 Primini, Frank "Deep Survey," 1985, 1989

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Box 78 of 84 Folder 8 Regge, Tullio, 1986

Box 78 of 84 Folder 9 Robbins, Mark, 1987

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Series 23: Publications, 1956-1966, 1971-1981, 1983, 1992

This series consists of publications that are not specifically tied to any institute to which Giacconi belonged. Most of the publications are on a more general level than those found in other series. There are a number of summary articles on the then current state of x-ray astronomy and the rough drafts of two separate books on x-ray astronomy, one in 1974, and one in 1983. There is also a folder of preprints in Russian, presumably about x-ray astronomy.

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Box 78 of 84 Folders 57-58 Giacconi Articles, 1956-1966

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Box 79 of 84 Folder 1 Russian Preprints, 1957, 1966, 1973-1978

Box 79 of 84 Folder 2 Scientific American, 1967

Box 79 of 84 Folders 3-4 X-Ray Astronomy Book Correspondence, 1969-1980

Box 79 of 84 Folder 5 X-Ray Astronomy Book Legal Documents, 1969-1970, 1972-1973, 1976-1979

Box 79 of 84 Folder 6 The Physics Teacher "X-Ray Astronomy," 1971-1973

Box 79 of 84 Folder 7 Science - "X-Ray Astronomy: Observations of New Phenomena," 1972

Box 79 of 84 Folder 8 Physics Today - "Progress in X-Ray Astronomy," 1973

Box 79 of 84 Folder 9 Astrophysical Journal - Correspondence, 1973

Box 79 of 84 Folder 10 X-Ray Astronomy Book - Permissions, 1973-1974

Box 79 of 84 Folder 11 X-Ray Astronomy Book Chap. 1 Galley Proofs and Permissions, 1974

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Box 79 of 84 Folder 13 X-Ray Astronomy Book Chap. 3 Galley Proofs and Permissions, 1974

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Box 79 of 84 Folder 20 X-Ray Astronomy Book Chap. 10 Galley Proofs and Permissions, 1974

Box 79 of 84 Folder 21 X-Ray Astronomy Book Index and Appendices Galley Proofs and Permissions, 1974

Box 79 of 84 Folder 22 X-Ray Astronomy Book Foreword Draft, 1974

Box 79 of 84 Folder 23 X-Ray Astronomy Book Chap. 1 Draft, 1974

Box 79 of 84 Folder 24 X-Ray Astronomy Book Chap. 2 Draft, 1974

Box 79 of 84 Folder 25 X-Ray Astronomy Book Chap. 3 Draft, 1974

Box 79 of 84 Folder 26 X-Ray Astronomy Book Chap. 4 Draft, 1974

Box 79 of 84 Folder 27 X-Ray Astronomy Book Chap. 5 Draft, 1974

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Box 80 of 84 Folder 1 X-Ray Astronomy Book Chap. 8 Draft, 1974

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Box 80 of 84 Folder 3 X-Ray Astronomy Book Chap. 10 Draft, 1974

Box 80 of 84 Folder 4 X-Ray Astronomy Book Appendix A Draft and Galley Proof, 1974

Box 80 of 84 Folder 5 X-Ray Astronomy Book Appendix B Draft and Galley Proof, 1974

Box 80 of 84 Folder 6 X-Ray Astronomy Book Appendix C Draft and Galley Proof, 1974

Box 80 of 84 Folder 7 X-Ray Astronomy Book Index Draft and Galley Proof, 1974

Box 80 of 84 Folder 8 "X-Ray Astronomy" in High Energy Astrophysics and Its Relation to Elementary Particle Physics, 1974

Box 80 of 84 Folder 9 Review of Modern Physics - Correspondence, 1974-1975

Box 80 of 84	Folder 10 Kosmos - "X-Ray Astronomy," 1974-1975
Box 80 of 84	Folder 11 Science Year - "High Energy Astronomy," 1975
Box 80 of 84	Folder 12 American Journal of Physics - "Richtmeyer Memorial Lecture: Progress in X-Astronomy," 1975-1976
Box 80 of 84	Folder 13 Edizioni Scientifiche E Tecniche - "X-Ray Astronomy," 1975-1976
Box 80 of 84	Folder 14 Science Year - "High Energy Astronomy," 1976
Box 80 of 84	Folder 15 Science Year - "High Energy Astronomy," 1977
Box 80 of 84	Folder 16 Physica Scripta - "Extragalactic X-Ray Sources," 1977
Box 80 of 84	Folder 17 Princeton University Press Correspondence, 1977
Box 80 of 84	Folder 18 Harvard University Press Correspondence re: X-Ray Astronomy Book, 1977, 1979-1981
Box 80 of 84	Folder 19 Science Year - "High Energy Astronomy," 1978
Box 80 of 84	Folder 20 American Scientist Correspondence, 1978
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Box 80 of 84	Folder 26 Review "L'observation des etoiles doubles visuelles," 1979
Box 80 of 84	Folder 27 Cambridge Press Correspondence, 1980
Box 80 of 84	Folder 28 Energy and Technology Review, 1980
Box 80 of 84	Folder 29 Museoscienza "L'Astronomia in Raggi X," 1981
Box 80 of 84	Folder 30 Rough Draft of X-Ray Astronomy Book, 1983
Box 80 of 84	Folder 31 G.S. Vaiana Memorial Lecture, c. 1992

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Series 24: X-Ray Astronomy, 1974-1975, 1978, 1982, and undated

This series consists of materials on x-ray astronomy that do not fit with any other series. There are two audiotapes of lectures, two research notebooks, and three folders of clippings.

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Box 80 of 84	Folder 33 Clippings, 1978
Box 80 of 84	Folder 34 Clipping "The Universe in X-Rays," 1982
Box 80 of 84	Folder 35 Research Notebooks, undated
Box 80 of 84	Folder 36 Audiotape "Advances in X-Ray Astronomy," 1974
Box 80 of 84	Folder 37 Audiotape Richtmyer Memorial Lecture, 1975

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Series 25: Appointment Calendars, 1966-1981, 1990-1992

This series consists of Giacconi's appointment calendars. There is a gap from 1982 through 1989, which would cover most of his time at the Space Telescope Science Institute.

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Series 26: Personal Materials, 1961, 1969, 1975-1981, 1985, 1987, 1992

This series consists of assorted personal materials that relate to Giacconi's personal rather than professional life. The series consists of correspondence, brochures, reports, blueprints, and audio and video tapes.

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| Box 81 of 84 | Folder 23 Assorted, 1975-1981 |
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| Box 82 of 84 | Folder 1 Underwater Equipment Brochures, 1969, 1976-1977, 1979 |
| Box 82 of 84 | Folder 2 Falmouth Waste Management Impact Statement, 1979 |
| Box 82 of 84 | Folder 3 Video - ABC World News, December 25, 1985 |
| Box 82 of 84 | Folder 4 Video - Chair Construction, undated |
| Box 82 of 84 | Folder 5 Audio - Lecture (?) in Italian, undated |
| Box 82 of 84 | Folder 6 Audio - Megabit, August 1, 1987 |

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Series 27: Awards, 1967, 1971-1972, 1980, 1986-1987

This series consists of awards that Giacconi received in recognition of his scientific achievements. The Nobel Prize is not among them.

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| Box 83 of 84 | Folder 1 Uhuru, computer output printouts, 1977 (described with Subseries 3I but stored here as oversize items) |
| Box 83 of 84 | Folder 2 Oversize Photos, undated (described with Series 24 but stored here as oversize items) |
| Box 83 of 84 | Folder 3 Outstanding Young Man of Boston, 1967 |
| Box 83 of 84 | Folder 4 A. Cressy Morrison Award, 1982 |
| Box 83 of 84 | Folder 5 Roentgen Prize, 1971 |
| Box 83 of 84 | Folder 6 NASA Medal for Exceptional Scientific Achievement for SAS-A (Uhuru), 1971 |
| Box 83 of 84 | Folder 7 NASA Public Service Medal for X-Ray Astronomy Research, 1972 |
| Box 83 of 84 | Folder 8 NASA Medal for Exceptional Scientific Achievement for HEAO-2, 1980 |
| Box 83 of 84 | Folder 9 Election to International Academy of Astronautics, 1986 |

Box 84

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| Box 84 of 84 | Citation for Wolf Prize in Physics, 1987 |
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