Riccardo Giacconi Papers, 1955-2002

Finding aid prepared by Smithsonian Institution Archives
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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
Smithsonian Institution Archives, Record Unit 7416, Riccardo Giacconi Papers

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, Instituto Donegani, the research arm of the parent corporation. This activity, which was an attempt to elevate Instituto 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. Instituto 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


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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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
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


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 13 Measurement of Fluorescent X-Radiation from the Moon and Detection of Other X-Ray Sources, 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 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 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

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

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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 of a 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
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


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


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


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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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

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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
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
Riccardo Giacconi Papers
https://siarchives.si.edu/collections/siris_arc_217571

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


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

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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


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
- Folder 7 Publications, 1981
- Folder 8 Photos, 1980
- 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
- Folder 11 Cen X-3 Plot, 1972
- 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


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
- Folder 15 Assorted Photographs, 1970-1973 and undated
- Folder 16 Photos. undated
- 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 3l: 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.

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Folder 20 re: Yoram Avni, 1978

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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

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Box 8 of 84
Folder 26 re: Alfonso Cavaliere, 1974

Box 8 of 84
Folder 27 re: Richard Chase, 1980

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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 |
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| Box 9 of 84 | Folder 9 George Field, 1979 |
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| 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 |
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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 Matltsky, 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 Serlmitsos, 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 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


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


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.

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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
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Box 13 of 84  Folder 10 Funding Requests, 1980
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
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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

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 14 of 84  Folder 13 ANS Press Release, 1974
Box 14 of 84  Folder 14 ANS Hard X-Ray Data Analysis Proposals, 1974-1977
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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
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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
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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
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Box 15 of 84  Folder 29 Sounding Rocket Experiment to Study the Diffuse Soft X-Ray Background Proposals, 1974-1980

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


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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


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

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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
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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

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Box 17 of 84  Folder 4 Measurement of Spatial and Temporal Variability in Lunar Radon Emission, 1975
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Box 17 of 84  Folder 34 Proportional Counter for X-Ray Analysis of Lunar and Planetary Surfaces, 1975-1979
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
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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


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
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Box 18 of 84  Folder 8 "Telescopes for X-Ray Astronomy" for Annual Review 1st Draft, 1980
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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.

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Box 22 of 84  Folder 8 Meeting Minutes, 1980-1981
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Box 22 of 84  Folder 10 Primer on Grad Student Life, 1980
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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


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


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


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

Box 22 of 84


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


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


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 Conners, 1973, 1975-1976

Box 23 of 84

Folder 8 Ken Swartz, 1974-1977

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.


Subseries 5i: Clippings: 1979

This subseries contains clippings relating to Harvard University.

Box 23 of 84  Folder 10 Clippings, 1979

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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


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


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


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


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


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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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

Box 24 of 84
Folder 9 Program Definition Phase for a Large-Area Focusing Collector, 1970

Box 24 of 84

Box 24 of 84

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

Box 24 of 84

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

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
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<th>Box of 84</th>
<th>Folder Description</th>
<th>Date</th>
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<td>26</td>
<td>Program Change Proposals, 1972</td>
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<tr>
<td>26</td>
<td>Participation in the Scanning Modulation Collimator Experiment, 1973</td>
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<tr>
<td>26</td>
<td>Proposal P633-9-76, 1976</td>
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<td>26</td>
<td>Proposal P707-6-77, 1977</td>
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<tr>
<td>26</td>
<td>Proposal P973-4-80, 1980</td>
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<tr>
<td>26</td>
<td>Design Review, 1971</td>
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<td>27</td>
<td>Preliminary End-Item Specifications, 1971</td>
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<tr>
<td>27</td>
<td>Preliminary End-Item Specifications for HEAO A-3, 1973</td>
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<tr>
<td>27</td>
<td>Mission Operations Requirements, 1974-1976</td>
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<td>27</td>
<td>Quality Program Plan, 1972</td>
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<tr>
<td>27</td>
<td>Reliability Program Plan, 1972</td>
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<tr>
<td>27</td>
<td>Experiment Verification Plan, 1972</td>
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<td>27</td>
<td>Program Management Plan, 1972</td>
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<td>27</td>
<td>Engineering and Development Plan, 1972</td>
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<td>27</td>
<td>Safety Program Plan, 1972</td>
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<td>27</td>
<td>Radiation Control Plan, 1972</td>
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<td>27</td>
<td>Electromagnetic Compatibility Control Plan, 1972</td>
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<tr>
<td>27</td>
<td>Contamination Control Plan for AXR-2, 1972</td>
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<tr>
<td>27</td>
<td>Reliability Program Plan HEAO A-3, 1973</td>
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<tr>
<td>27</td>
<td>Quality Program Plan for HEAO A-3, 1973</td>
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<tr>
<td>27</td>
<td>Safety Program Plan for HEAO A-3, 1973</td>
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<td>27</td>
<td>Progress Reports #1-4, 1972</td>
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<td>27</td>
<td>Progress Reports #5-6, 1972</td>
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</table>
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  Folder 25 Contracts Budgets NAS8-30453, 1974-1976
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


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

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Box 28 of 84

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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


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


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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This series consists of materials stemming for 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


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 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


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


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 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

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

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

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


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


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


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
<table>
<thead>
<tr>
<th>Box 40 of 84</th>
<th>Folder 11 Research Notebook, 1978</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box 40 of 84</td>
<td>Folder 12 Deep Survey Notebook, 1978</td>
</tr>
<tr>
<td>Box 40 of 84</td>
<td>Folder 13 Deep Survey Loose Papers, 1978</td>
</tr>
<tr>
<td>Box 40 of 84</td>
<td>Folder 14 Galaxy Clusters, 1980-1981</td>
</tr>
<tr>
<td>Box 40 of 84</td>
<td>Folder 15 Target Observation List, undated</td>
</tr>
<tr>
<td>Box 40 of 84</td>
<td>Folder 16 Observation Plots, undated</td>
</tr>
<tr>
<td>Box 40 of 84</td>
<td>Folder 17 Observation Schedule, undated</td>
</tr>
</tbody>
</table>

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 | Lucite plaque with wood base in foam holder |

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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

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


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 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


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 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 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 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


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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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


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
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 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


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


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


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 (?)

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)

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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


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


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

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.
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Folders 6-9 VLT Programme Review, January 1993

Box 57 of 84

Folder 10 VLT, Operations, January 1993

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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


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.

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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

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Folders 1-2 ESO, 1996 Budget Details, 1995

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Folders 3-4 ESO, Director General WP, 1996

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Folder 5 ESO, Executive Summary of ESO Long Range Plan, 1999-2006; 1999


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


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


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)

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


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


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


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

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.

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.

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.

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 63 of 84  Folders 1-3 Opportunities for Participation in Space Science Research, 1976-1981


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


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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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.

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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

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Folders 17-19 Space Shuttle Summer Study Report (Woods Hole), 1973

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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

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Folder 11 Board Meeting, October 1981

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Folder 12 Board Meeting, November 1982


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 17 Preliminary Reports on Astronomy Disciplines, 1979-1980

Box 65
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 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
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.

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.


This subseries consists of material relating to NAS meetings that Giacconi attended, including annual meetings and meetings related to NASA missions.


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),

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.

Box 66 of 84
Folder 17 Report #1, 1977
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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.

Box 66 of 84
Folder 25 Correspondence, 1972

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

Box 67
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 Profiles, 1975

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 12 Proposals, 1976
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
Box 67 of 84  Folder 17 Unsent Correspondence 1979 and undated

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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 Arecibo, 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

Return to Table of Contents
Series 18: International Astronomical Union (IAU), 1964-1989, and undated

Box 68


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.

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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

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


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

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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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.

Box 68

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 23 AAS Newsletters, 1989
Box 68 of 84  Folder 24 American Institute of Aeronautics and Astronautics, 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

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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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

Box 69 of 84  Folder 41 American Physical Society (San Juan), 1971

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

Box 69 of 84  Folder 46 Cospar International Committee on Space Research (Seattle), 1971

Box 69 of 84  Folder 47 Bell Labs Colloquium (Holmdel), 1971

Box 69 of 84  Folder 48 Iowa State Colloquium (Ames), 1971

Box 69 of 84  Folder 49 Brookhaven Colloquium (Upton), 1971

Box 69 of 84  Folder 50 Harvard University Physics Colloquium (Cambridge), 1971

Box 69 of 84  Folder 51 Princeton Colloquium (Princeton), 1971

Box 69 of 84  Folder 52 American Physical Society (Washington), 1971
| 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 |
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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 Instituto 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.

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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.

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Subseries 21b: Correspondence
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Subseries 21c: Reports

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

Box 74 of 84  Folder 12 Institute Activities, 1986
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Subseries 21d: Organizational Documents

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

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Subseries 21e: Brochures

This subseries contains corporate brochures from Instituto Donegani, Montedison and Dow Chemicals.
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Box 74 of 84  Folder 24 1985 Montedison Brochure, 1987
Box 74 of 84  Folder 25 Dow Brochures, 1986-1988

This subseries contains clippings about Montedison and Instituto 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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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.

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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.
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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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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 32 Oggi Article, 1974
- 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

Box 83

- Box 83 of 84 Folder 2 Oversize Photos, undated

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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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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
- Box 81 of 84 Folder 24 University of Milan Blueprints, undated
- Box 81 of 84 Folder 25 Conseil General des Peche Pour La Mediterranee, 1961

Box 82

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

Box 83

Box 83 of 84 Folder 1 Uhuru, computer output printouts, 1977 (described with Subseries 3l 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

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

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