



# Smithsonian Institution Archives

## Grant Proposals, 1976-2004

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## Collection Overview

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## Administrative Information

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Restricted for 15 years, until Jan-01-2020; Transferring office; 8/30/1985 memorandum, Deiss  
to Dick; Contact reference staff for details.

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## Descriptive Entry

These records document Smithsonian Astrophysical Observatory (SAO) activities and projects, and consist of proposal, contract and grant files. Materials include proposals, quotations, and bids from contractors, equipment makers, and other vendors to provide services, equipment, and instruments for SAO.

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## Names and Subject Terms

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

### Subjects:

Astronomy  
Astrophysics.  
Contracts  
Research grants

Types of Materials:

Manuscripts

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## Container Listing

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05/13/1998-12/30/1998

P4388-5-98: Continuation of the 2 Mass Telescope & Fred L. Whipple  
Observatory (FLWO), 05/11/1998-05/14/1998

P4389-5-98: Ground Based Monitoring of the Effect of Volcanic Activity on  
the Surface of IO, 05/14/1998-05/15/1998

P4390-5-98: Support for the Minor Planet Center, 05/14/1998-05/15/1998

P4391-5-98: Annenberg/CPB Channel Core Services,  
05/14/1998-05/15/1998

P4392-5-98: Long Term Dynamics of Small Bodies in the Outer Solar  
System, 05/21/1998-05/28/1998

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P4393-5-98: Uses of Stellar Static: Activity Related Radial Velocity Noise as  
a tool in Extrasolar Planet Searches, 05/20/1998-05/29/1998

P4394-5-98: The Annenberg/CPB Math & Science Workshops,  
05/21/1998-10/14/1998

- P4395-5-98: Continuous GPS in the Region of YUCCA Mt. Nevada, 05/21/1998-05/22/1998
- P4396-5-98: Secondary Alteration in CV Chondrites: Thermodynamic Modeling, 05/18/1998-05/27/1998
- P4397-5-98: Mineralogic & Petrologic Studies of Meteorites, 05/26/1998-05/28/1998
- P4398-5-98: Chemical Evolution in the Protostars: Infall to Disks, 05/22/1998-07/02/1998
- P4399-5-98: Fine Scale Magnetic Structures & the Solar Wind, 05/29/1998-06/12/1998
- P4400-6-98: Motions in Star-Forming Dense Cores, 05/28/1998-05/31/1998
- P4401-6-98: G Dwarf Planet Search, 06/02/1998-06/03/1998
- P4402-6-98: Imaging Companions (2-100 AU) Around 3000 Stars Like the Sun, 05/22/1998-06/03/1998
- P4403-6-98: Three Classes of Kuiper Belt Objects: Theory & Observations, 06/02/1998-06/25/1998
- P4404-6-98: Interferometric Nulling for Faint Companion Searches, 06/02/1998-06/03/1998
- P4405-6-98: Brown Dwarfs in the Hyades, 06/02/1998-06/04/1998
- P4406-6-98: VLA Imaging of Protoplanetary Environments, 06/03/1998-05/31/2001
- P4407-6-98: A Study of Long Term Variations in Stratospheric Water Vapor and Implications for Transport, 05/28/1998-06/09/1998
- P4408-6-98: Phase 1 of Science Research Laboratories Proposal, 06/08/1998-06/10/1998
- P4409-6-98: Merging Substructure in Nearby Clusters of Galaxies, 06/09/1998-06/10/1998
- P4410-6-98: The Coronae of Quiescent in Dwarf Stars, 06/11/1998-08/13/1998
- P4411-6-98: Luminous Supersoft X-ray Sources, 06/12/1998-03/16/1999
- P4412-6-98: Metal Abundances in the Very Hot Hydrogen Rich Central Star of the Planetary Nebula NGC 1360, 06/12/1998-11/02/1999
- P4413-6-98: ACIS Study of Abundance Distribution in ES, 06/16/1998-11/02/1999
- P4414-6-98: Resolving the X-ray Spectrum of the Extremely Massive Super Luminous Star ETA Carinae with AXAF, 06/01/1998-11/02/1999



P4415-6-98: AFAX Investigation of the Archetypal ULIRG ARP 220,  
06/16/1998-12/08/1999

P4416-6-98: An X-ray Cluster at  $Z=2.156$ , 06/18/1998-11/02/1999

P4417-6-98: Comparison of Global Cloud & Aerosol Products From SAGE II  
& GOME, 06/11/1998-11/30/1998

P4418-6-98: Tropospheric Chemistry Studies Using Observations from GOME  
& TOMS: An ACAMP Proposal, 06/18/1998-03/04/1999

P4419-6-98: A Multicolor Search for Distant Clusters of Galaxies,  
06/24/1998-06/23/1999

P4420-6-98: Reconnaissance of the Nearby Stars, 06/24/1998-01/18/1999

P4421-6-98: US-Korea Atomic Physics Seminar on Atom-Field Interactions:  
Recent Trends, 06/26/1998-06/29/1998

P4422-6-98: Structure of Interstellar the Interstellar Medium in The Milky Way  
& Distant Galaxies, 06/29/1998-06/29/1998

P4423-7-98: Determination of Spectroscopic Properties of Atmospheric  
Molecules from High Resolutions Vacuum Ultra violet Cross Section &  
Wavelength Measurement, 06/30/1998-07/02/1998

P4424-7-98: Sun Computer for the CRAG Project, 07/06/1998-07/06/1998

P4425-7-98: RXTE Observation of the Outburst of the Dwarf Nova SS CYG,  
07/02/1998-10/01/1998

P4426-7-98: Transient Neutron Star X-ray Binaries, 07/10/1998-10/02/1998

P4427-7-98: Possible Identification of the Gamma Ray Source Monoceros,  
07/10/1998-04/28/1999

P4428-7-98: Hard X-ray Emission of X-ray Busters, 07/10/1998-10/02/1998

P4429-7-98: Kinetics of Fast Atoms in the Terrestrial Atmosphere,  
07/13/1998-01/20/1999

P4430-7-98: ISAIA: Interoperable Systems for Archival Information Access,  
07/13/1998-07/13/1998

P4431-7-98: A Synoptic Study of an X-ray Nova in Outburst,  
07/09/1998-10/01/1998

P4432-7-98: Simultaneous Spectral & Timing Observations Of Accreting  
Neutron Stars, 07/13/1998-10/02/1998

P4433-7-98: Fast Timing of X-ray Bursts, 07/13/1998-10/02/1998

P4434-7-98: Spectral Analysis of AGN and the Diffuse Cosmic X-ray  
Background, 07/13/1998-09/30/1998

P4435-7-98: Monitoring the Stable Pulsar B1509-58, 07/14/1998-07/14/1998

P4436-7-98: SAO Observers Using the VSOP Space VLBI Mission,  
07/10/1998-07/15/1998

P4437-7-98: Continuation of U. S. Astronomers Access to SIMBAD,  
07/15/1998-07/15/1998

P4438-7-98: The Submillimeter Wave Astronomy Satellite (SWAS) Program,  
07/14/1998-10/30/1998

P4439-7-98: Phase A Through E for the Super X-ray Telescope,  
07/16/1998-07/29/1998

P4440-7-98: The Effect of Activity-Related Variability on Photocenter  
Displacement for SIMS Astrometric Reference Grid, 07/23/1998-07/27/1998

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P4441-7-98: G Dwarf Grid Star Candidates, 07/23/1998-07/27/1998

P4442-7-98: The Dusty Environments of Photostars, 07/24/1998-07/27/1998

P4443-7-98: An Interferometric Survey of Grid Star Candidates for SIM,  
07/27/1998-07/27/1998

P4444-7-98: Continuation of the ROSAT Data Science Center,  
07/29/1998-10/08/1999

P4445-7-98: Ultra High Through Put X-ray Observatory with a New Mission  
Architecture, 07/29/1998-12/07/1998

P4446-7-98: Solar-B X-ray Telescope, 07/14/1998-01/27/1999

P4447-8-98: Activities of the SAO Space Geodesy Group within the Center  
for Advanced Interferometry, 08/06/1998-08/12/1998

P4448-8-98: Advanced X-ray Astrophysics Facility (AXAF/Chandra) Science  
Center, Phase 1 of the Grant & Fellowship Program, 09/11/1998-08/10/1999

P4449-8-98: Studies for X-ray Interferometry AGN X-ray,  
08/11/1998-02/23/1999

P4450-8-98: A Solar Wind 9 Conference to be held in Nantucket,  
Massachusetts, 08/13/1998-08/18/1998

P4451-8-98: Hopkins Ultraviolet Background Explorers (HUBE),  
08/03/1998-08/14/1998

P4452-8-98: The Geometry and Evolution of Low Mass Star Formation,  
08/14/1998-01/11/2000

P4453-8-98: Hot Interstellar & Intergalactic Medium Spectroscopy Mission  
(HIMS), 08/11/1998-08/17/1998

P4454-8-98: Latitudinal Dependence of the Properties of Polar  
Coronal Holes & Associated Fast Solar Wind During Solar Minimum,  
08/18/1998-08/19/1998

P4455-8-98: Tunable Imager Sounding Rocket Investigation,  
11/05/1999-02/07/2001

P4456-8-98: Metal Mesh Fabrication & Testing Infrared Astronomy & ISO  
Science Programs: ISO GO Data Analysis & LWS Instrument Team Activities,  
08/19/1998-08/21/1998

P4457-8-98: Fast Imaging Response for Energetic Burst & Afterglow  
Locations (FIREBALL), 08/19/1998-08/19/1998

P4458-8-98: Advanced Solar Coronal Explorer Mission (ASCE),  
08/11/1998-08/04/1999

P4459-8-98: X-ray Spectroscopy Explorer (XRASE), 08/27/1998-09/22/1998

P4460-8-98: High Resolution X-ray Mission Explorer, 08/20/1998-08/20/1998

P4461-8-98: Wide Field X-ray CCD Camera , 08/20/1998-08/20/1998

P4462-8-98: "MIRABU" A Mid-Infrared Array for Boston University,  
08/19/1998-05/11/1999

P4463-8-98: Extra Solar Planetary Systems Research as Part of the Center  
for Advanced Interferometry, 08/25/1998-08/26/1998

P4464-8-98: High Latitude Balloon Flights SOLVE, 07/24/1998-08/27/1998

P4465-8-98: Mapping the Solar Wind From it Source Region Into the Outer  
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P4466-8-98: Surface Differential Rotation & Activity Variability in Lower Main  
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P4467-8-98: Self Consistent Models of Accretion Disk,  
08/27/1998-08/31/1998

P4468-8-98: Infrared Spectra of Potential Earth-Like Planets Around Nearby  
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P4469-8-98: Science Data Center, 09/01/1998-09/09/1998

P4470-9-98: HST Planetary on Nebular Paleontology,  
09/08/1998-09/09/1998

P4471-9-98: HST on Disks Envelopes Around Pre-Main Sequence Stars,  
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P4472-9-98: One Step Distance to M31 and M33 with Hipparcos Calibrated  
Red Clump Stars, 09/08/1998-10/10/1998

P4473-9-98: Direct Distance to M31 & M33 Using Detached Eclipsing  
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P4474-9-98: Core & Halo Environment of Distant Clusters,  
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P4475-9-98: The Surface Density & Morphologies of Extremely Red Objects,  
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P4476-9-98: Star Formation in OB Associations, Orion from the Waist Up,  
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P4477-9-98: Constellation X-ray Mission Study & Support,  
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P4478-9-98: Evolution of the Symbiotic Nova AG Pegasi,  
09/09/1998-02/10/1999

P4479-9-98: Proposal to NSF for Support of Visiting Scientist,  
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P4480-9-98: In Space Transportation with Tethers, 09/09/1998-09/30/1998

P4481-9-98: The Science of Teaching Science, 09/09/1998-09/11/1998

P4482-9-98: Assessment in Math & Science: What is the Point?,  
09/09/1998-09/11/1998

P4483-9-98: Web-Site graphics Work for Annenberg/CPB,  
09/09/1998-09/11/1998

P4484-9-98: Mathematics: What is the Big Idea?, 09/09/1998-09/11/1998

P4485-9-98: Continuation of the Antarctic Submillimeter Telescope & Remote  
Observatory (AST/RO) Project, 09/08/1998-09/11/1998

P4486-9-98: Precision Measurement with two-Species Zeeman Masers,  
09/16/1998-03/02/1999

P4487-9-98: Survey of Galactic Objects with the Quest Camera & the CIDA1  
Meter Schmidt Telescope, 09/18/1998-02/07/1999

P4488-9-98: Clumping, Ionization & the Dynamics of the Interstellar Medium,  
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P4489-9-98: Analysis for Pro SEDS Mission Design, 09/21/1998-02/19/1999

P4490-9-98: Coronagraphic Observations & Analyses of the Ultra-violet/Solar  
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P4491-9-98: Scanning Microfilms of Astronomical Observatory Literature ,  
09/21/1998-09/23/1998

P4492-9-98: Joint SAO Main Astronomical Observatory (MAO) Of  
Kiev Program in Satellite Laser Ranging Applications in Geodynamics,  
09/21/1998-09/23/1998

P4493-9-98: Electrodynamical Thrust Performance for Space Solar Satellite  
Applications, 09/17/1998-11/12/1998

P4494-9-98: SOHO Ultraviolet-Coronagraphic Spectrometer (UVCS) Mission Operations & Data Analysis, 09/23/1998-12/01/1998

P4495-9-98: Further Study to Extend Metrology Mount Performance to 0.5 Meter Optics, 09/24/1998-09/25/1998

P4496-9-98: Bio-Medical Investigation with Laser Polarized Noble Gas Magnetic Resonance, 09/29/1998-12/03/1999

P4497-9-98: Development of a System for Human NMR Imaging With Polarized Noble Gases Using Very Low Fields, 09/30/1998-09/30/1998

P4498-9-98: Feasibility & Architectural Study, 10/09/1998-10/15/1998

P4499-10-98: Test for Microcalorimeter Detector, 09/30/1998-12/22/1998

P4500-10-98: Measurement of H<sub>2</sub> & Other Trace Gases in the Stratosphere Using a High Resolution Infrared Spectrometer, 10/13/1998-03/02/1999

P4501-10-98: B Star Binaries in the Magellanic Clouds, 10/08/1998-11/23/1999

P4502-10-98: Participation in Theoretical Studies of Ultra-Cold Molecules, 10/15/1998-10/15/1998

P4503-10-98: Space for Children, 10/15/1998-10/15/1998

P4504-10-98: For Peer Instruction for Astronomy, 10/15/1998-12/16/1998

P4505-10-98: Spaceborne Astrometric Instrument (Empty folder - Proposal never issued)

P4506-10-98: Multi-wavelength Observation of Hercules X-1, 09/10/1998-10/27/1998

P4507-10-98: Participation in MIT'S Program, 10/15/1998-10/26/1998

P4508-10-98: The Feasibility Study of Utilizing Existing Infrared Array Cameras for Daylight Star, 10/20/1998-07/12/1999

P4509-10-98: The Development & Operation of the Astrophysics Data System, 10/23/1998-10/27/1998

P4510-10-98: The Continuation of Principals Workshop Documentary Videos, 10/26/1998-10/28/1998

P4511-10-98: RSDC, 10/22/1998-11/03/1998

P4512-11-98: The Repair of Hydrogen Mass, 10/29/1998-11/05/1998

P4513-11-98: Igneous Activity on the Acapulcoite Idoranite Parent Body: A Thermodynamic Model, 11/17/1998-11/19/1998

P4514-11-98: Spectrum X Gamma Observatory, 11/16/1998-03/19/1999

P4515-11-98: Hard X-ray Spectra & Temperature Profiles for Clusters of Galaxies with ART-P, 11/18/1998-05/25/1999

P4516-11-98: Development of a Web-Based Interface to the Archived Data of the MIR-Kvant & Granat Missions, 11/18/1998-05/25/1999

P4517-11-98: X-ray Signs of Chemical Evolution of Early-Type Galaxies, Groups & Clusters of Galaxies, 11/18/1998-05/25/1999

P4518-11-98: Study of Spectral of Variability of Galactic X-ray Source & Constraint on the Model of Accretion on the Black Hole & Neutron Stars, 11/19/1998-05/25/1999

P4519-11-98: Origins Chemical, Composition & Internal Structure of Galaxies Satellites of Jupiter: a Physical Chemical Model, 11/17/1998-11/19/1998

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P4520-11-98: Origins of the Solar Winds, 11/20/1998-11/05/1999

P4521-11-98: Infrared Astronomy Research, 11/24/1998-03/16/1999

P4522-12-98: Creation & Analysis of the Chemical Composition Map of EROS & It's Cosmochemical Interpretation, 12/03/1998-11/05/1999

P4523-12-98: Solving Extant Problem for Higher U. S. Visibility, 12/04/1999-08/25/1999

P4524-12-98: A Multi-Wavelength Study of the Hot Component Interstellar Medium, 12/09/1998-06/01/1999

P4525-12-98: ROSAT Extension PO S-15777, 12/11/1998-12/14/1998

P4526-12-98: Private Universe Project in Mathematics (Pup Math) Annenberg, 12/10/1998-12/16/1998

P4527-12-98: SAO in Mount Wilson Institute's Sun Climate Research Program, 12/02/1998-12/30/1998

P4528-12-98: Nanotechnology Infrared Optics for Astronomy Missions, 12/14/1998-04/04/2000

P4529-12-98: Telescope Scientist AXAF, 12/23/1998-03/31/1999

P4530-12-98: SIMBAD-Follow-on, 12/29/1998-3/17/1999

P4531-1-99: Continuation Contract N62285-99-M-0004, 01/05/1998-01/07/1999

P4532-1-99: An SXI Filter Flash Test, 01/05/1999-01/07/1999

P4533-1-99: NPOESS Ozone Mapping & Profiling Suite, 01/11/1999-09/23/2002

P4534-1-99: Continuation of NCC5-325, 01/14/1999-01/14/1999

- P4535-1-99: In-Space Transportation with Tethers, 01/19/1999-01/20/1999
- P4536-1-99: Advanced Balloon Pointing Design & Technology, 01/20/1999-01/21/1999
- P4537-1-99: Low Field Human MRI, 01/19/1999-01/29/1999
- P4538-1-99: Technology Development of an Altitude-Controlled Mars Balloon Science Platform, 01/21/1999-01/21/1999
- P4539-1-99: The Development of Magnetic Calorimeters for X-ray Astronomy, 01/21/1999-01/21/1999
- P4540-1-99: Thin, Plastic Foil, Wolter 1 Optics for High Through-Put X-ray Telescopes, 01/21/1999-06/07/1999
- P4541-1-99: Developing a Space Qualified VUV Sensitive PAPA Detector, 01/21/1999-01/21/1999
- P4542-1-99: Liquid Crystal Optics for Spaced Based Polarization & Spectroscopic Imaging of the Solar Corona, 01/21/1999-01/21/1999
- P4543-1-99: Data Handling for Long Duration Balloon Flights, 01/21/1999-01/21/99
- P4544-1-99: Two-Phase Flow Interfacial Measurements By A Novel Nuclear Magnetic Resonance Imaging Method, 01/25/1999-01/26/1999
- P4545-1-99: Unidentified Galactic Gamma-Ray Sources, 01/28/1999-04/28/1999
- P4546-1-99: A High Galactic Latitude X-ray Transient, 02/02/1999-04/28/1999
- P4547-1-99: Exploring the Hard X-ray Spectrum of the Bright NLsY MrK, 01/28/1999-01/29/1999
- P4548-1-99: A BeppoSAX Broad Band Study of the Unusually Flat X-ray Spectrum Seyfert 1 Galaxy NGC 985, 01/28/1999-01/29/1999
- P4549-1-99: A New "Dusty-Warm-Absorber" Quasar, 01/28/1999-01/29/1999
- P4550-1-99: Lifting the Shroud Around Broad Absorption Line Quasars with SAX, 01/28/1999-01/29/1999
- P4551-1-99: Searching for Quasar-2 and/or Low-Mass Seyfert 2 Exploiting the Broad Band Capability of BEPPOSAX, 01/28/1999-01/29/1999
- P4552-1-99: Testing the Unified X-ray/UV Absorbed Models with SAX, 01/28/1999-01/29/1999
- P4553-2-99: Phase A Analysis of AIRSEDS, 01/22/1999-04/08/1999
- P4554-2-99: In Support of Advancing the Legacy NRA Release Date from L-13 to L-20, 01/29/1999-02/04/1999

P4555-2-99: Probing Porous Media with Nobel Gas Magnetic Resonance, 02/04/1999-03/18/1999

P4556-2-99: Development of a Double-Bulb Rubidium Maser, 02/04/1999-02/08/1999

P4557-2-99: Calibrating Stellar-Models with the Pleiades: Resolving the Distance Discrepancy, 02/09/1999-09/24/1999

P4558-2-99: An Opportunity to Measure True Masses, 02/09/1998-08/04/1999

P4559-2-99: Extinction Curves of Distant Galaxies, 02/11/1999-05/21/1999

P4560-2-99; Lensed Quasar Hosts at High Red Shift, 02/10/1999-02/11/1999

P4561-2-99: Operations Support for 2 Micron all Sky Survey on 2 MASS Telescope, 02/09/1999-02/11/1999

P4562-2-99: High Resolution Spectroscopic Database for the Earth Observation System (EOS) Program, 02/09/1999-04/13/1999

P4563-2-99: Binary Interaction in the MIRA AB Accreting System, 02/10/1999-08/11/1999

P4564-2-99: Snap Shot Spectroscopic Diagnostic Survey of the Symbolic Stars, 02/08/1999-06/19/2001

P4565-2-99: Original Structure & Evolution of Magnetic Activity, 02/12/1999-08/10/1999

P4566-2-99: Annual Contribution for the Operation of 2 MASS Telescope, 02/08/1999-02/11/1999

P4567-2-99: The Launch Delay to the Chandra X-ray Observation, 02/12/1999-02/12/1999

P4568-2-99: Detecting Circumstellar "Hydrogen Wall" Emission Around A Near by Sun-like Star, 02/11/1999-06/15/1999

P4569-2-99: Calibrating the Mass-Luminosity Relation at the end of the Main Sequence, 02/11/1999-12/02/1999

P4570-2-99: A Survey of Gravitational Lenses as Cosmological Tools III, 02/11/1999-08/18/1999

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P4571-2-99: A Search for Acoustic Heating in the Chromosphere of Low Activity Dwarfs, 02/16/1999-08/09/1999

P4572-2-99: Solar Oscillations Investigation Michael Doppler Imager: Mission Observations & Data Analysis, 02/08/1999-02/16/1999

P4573-2-99: Mass Accretion Rates for Pre-Main Sequence Intermediate Mass Stars, Grant Number GO-8317, 02/17/1999-06/15/1999



P4574-2-99: The Structure of the Accretion Flow on Pre-Main Sequence Stars, Grant Number GO-8206, 02/17/1999-01/15/2000

P4575-2-99: Volcanic SO<sub>2</sub> & Aerosols: Satellite Measurements From GOUE & Sciamachy, 02/11/1999-02/18/1999

P4576-2-99: #2 for DOE Grant DE-FGO2-91ER40635 for Effort on the Application of Two-Dimensional Imaging to Very High Energy Gamma Ray Astronomy, 01/07/2000-06/01/2000

P4576-2-99: A Collaboration VERITAS: Very Energetic Radiation Imaging Telescope Array System, 12/21/2000-09/09/2003

P4577-2-99: Investigations of Granular Flow Dynamics by Hyperpolarized Gas & Pulsed Field-Gradient NMR, 02/22/1999-02/25/1999

P4578-3-99: MRI of Lung Surface Area, 02/24/1999-08/21/2000

P4579-3-99: Magnetic Resonance Imaging of Laser Polarized Xenon, 02/26/1999-03/01/1999

P4580-3-99: Third String Hardware, 02/22/1999-11/12/1999

P4581-3-99: Data Analysis Support for SAO observers Using The VSOP Space VLBI Mission, 03/04/1999-03/08/1999

P4582-3-99: To Monitor and Evaluate the Scientific Performance Of the High Resolution Mirror Assembly (HRMA), 03/03/1999-09/03/1999

P4583-3-99: Continuation of Evaluation of the SAO Space Maser for Use in Space-Based Laser Cooling & Atomic Physics Experiments, 03/16/1999-08/08/2000

P4584-3-99: ROSAT Science Data Center, 03/22/1999-03/23/1999

P4585-3-99: Mirror Host for EDP Sciences

P4586-4-99: A Focal Stellar X-ray Polarimeter for Spectrum X-Gamma Mission, 04/02/1999-04/05/1999

P4587-4-99: FUSE: Satellite Mission: Observations & Data Analysis, 04/01/1999-04/05/1999

P4588-4-99: Two (2) Twenty Minute Documentary Videos, 04/02/1999-04/05/1999

P4589-4-99: Spaceborne Astrometric Instrument, 04/07/1999-04/07/1999

P4590-4-99: Turnstone Sciences Investigation Series, 04/09/1999-04/29/1999

P4591-4-99: Lessons for Real Life: Professional Development Video Workshops, 04/13/1999-04/06/2000

P4592-4-99: High Energy Radiation Using Paramagnetic Sensors Detectors, 04/13/1999-04/15/1999

P4593-4-99: FUSE, 04/19/1999-04/19/1999

P4594-4-99: Investigation of Granular Flow Dynamic by Hyperpolarized Gas & Pulsed-field Gradient NMR, 04/15/1999-03/20/2000

P4595-4-99: Empty folder - Proposal number never assigned

P4596-4-99: Ground Based Monitoring of the Effect of Volcanic Activity of the Surface of Io, 04/19/1999-04/20/1999

P4597-4-99: Ground Based Imaging of Intermediate & Large Diameter Asteroids, 04/19/1999-04/20/1999

P4598-4-99: Large Format X-ray Detectors for X-ray Timing & Spectroscopy, 04/19/1999-04/20/1999

P4599-4-99: Design & Development of a Thin Plastic Foil, Conical Approximation High Throughput X-ray Telescope, 04/20/1999-01/27/2000

P4600-4-99: High Resolution Hard X-ray Telescope With Multi-layer Reflector, 04/20/1999-02/01/2000

P4601-4-99: Microcalorimeters with NTD & Expitaxial Germanium Thermistors for High Resolution X-ray Spectroscopy, 04/12/1999-03/15/2000

P4602-4-99: Active Components for Knowledge Communities, 04/28/1999-04/29/1999

P4603-4-99: Observation Verification of Magnetic/Acoustic Heating of Chromospheres, Transition Region & Extra-Solar Planets, 04/29/1999-04/29/1999

P4604-4-99: Evaluation of Chromosphere Transition Region & Agency & Coronal Signatures of Brown Dwarf & Extra Solar Planets, 04/29/1999-05/03/1999

P4605-4-99: Membership & Coronal Activity in the R CrA T Association, 04/29/1999-05/03/1999

P4606-4-99: Membership & Coronal Activity in the NGC 2232 & Cr140 Open Cluster, 04/29/1999-05/03/1999

P4607-4-99: Eclipse Mapping of the Touchstone Systems CM, DRA & YYGEM, 03/08/1999-05/11/1999

#### Box 10

P4608-5-99: Fast Timing of X-ray Bursts, 05/03/1999-05/03/1999

P4609-5-99: Hard X-ray Emission of X-ray Bursters, 05/03/1999-05/03/1999

P4610-5-99: Simultaneous Spectral & Timing Observations Of Accreting Neutrons Stars, 05/03/1999-03/02/2000

P4611-5-99: Possible Identification of the Gamma ray Source in Menoceros, 05/03/1999-05/04/1999

P4612-5-99: Unidentified Galactic Gamma Ray Sources,  
05/03/1999-05/04/1999

P4613-5-99: A High Galactic Latitude X-ray Transient,  
05/03/1999-05/04/1999

P4614-5-99: Four New BeppoSAX Observations of Narrow Line Seyfert 1,  
05/03/1999-05/04/1999

P4615-5-99: BeppoSAX Observations of Seyfert Galaxies & Comparative  
Analysis with Archival ASCA & BeppoSAX Data, 05/03/1999-05/04/1999

P4616-5-99: BEPPOsax Observations of the Brightest X-ray Quasars at  
Redshift 3 PKS~2126-158, 05/03/1999-02/24/2000

P4617-5-99: The Pulsation of Mira Variables: An IUE View,  
05/03/1999-05/04/1999

P4618-5-99: Environmental Efforts on the Metallicities of Early-Type  
Galaxies, 05/03/1999-05/04/1999

P4619-5-99: RXTE Observations of the Outburst of the Dwarf Nova SS Cyg,  
05/03/1999-05/04/1999

P4620-5-99: Approved ASCA A07 Support: Ionized Disk Diagnostics & the  
X-ray Baldwin Effect from Redshift 1.5 Fe-K & Compton Hump Emission,  
05/03/1999-05/04/1999

P4621-5-99: Understanding Broad Absorption Line Quasars w/ASCA  
Observations, 05/03/1999-05/04/1999

P4622-5-99: Seeing Red & Shooting Blanks: A Study of Red Quasars &  
Blank X-ray Sources, 05/03/1999-02/28/2000

P4623-5-99: ACSA & BeppoSAX Observations of the Newly Discovered SNR  
Rx JO852-4622, 05/03/1999-05/04/1999

P4624-5-99: Exploring the Nature of the Redshift Richness Effect in Distant  
X-ray Clusters, 05/03/1999-05/04/1999

P4625-5-99: The Ultra Soft X-ray Background: A Probe of the Hot Interstellar  
Medium & the Local Bubble, 05/03/1999-05/04/1999

P4626-5-99: 1999 the AD Leo Campaign, 05/04/1999-05/04/1999

P4627-5-99: Five years of EUVE Observations of the Bursting Gamma-Ray  
Emitting Blazar Markarian 421, 05/04/1999-05/04/1999

P4628-5-99: Chemical Compositions & Anomalies in Stellar Coronae,  
05/04/1999-05/04/1999

P4629-5-99: Stochastic Processes, Flares & Heating in Stellar Coronae,  
05/04/1999-05/04/1999

P4630-5-99: A Systematic Study of X-ray Emission from Star Formation  
Regions in the Galaxy, 05/04/1999-05/04/1999

P4631-5-99: The Evolution of "Normal" Galaxies & the Star Formation Rate Measured at Infrared Wavelengths, 04/19/1999-05/06/1999

P4632-5-99: Infrared & X-ray Studies of Molecular Clouds in the Galaxies & M31, 05/04/1999-05/05/1999

P4633-5-99: The Dynamics of Accretion Time Series Studies of LMXBs & AGN, 05/05/1999-05/05/1999

P4634-5-99: Are Black Holes Really Black? Application of ADAF ADIOS & Propeller Models to BH & NS Transients, 05/05/1999-05/05/1999

P4635-5-99: Physics of Galaxies Clusters & How it affects Cosmological Tests, 05/05/1999-05/05/1999

P4636-5-99: Spectroscopic Signatures of Supernova Remnants SNR from Hydrodynamic & NEI Non-Equilibrium Plasma Models, 05/05/1999-05/05/1999

P4637-5-99: Uncovering the Properties of Young Neutron Stars & Their Surrounding Supernova Remnants, 05/05/1999-03/16/2000

P4638-5-99: The Effects of Time Dependent Accretion on Quasars Type, Evolution & Diffuse Background, 04/27/1999-05/06/1999

P4639-5-99: The Chandra Multi-Wavelength Program (CHAMP) A Serendipitous X-ray Survey Using the Chandra Archive, 04/06/1999-05/06/1999

P4640-5-99: Searching High & Low for Accreting White Dwarfs, 05/03/1999-05/21/1999

P4641-5-99: Secondary Alteration in Chondrites: Thermodynamic Modeling, 05/11/1999-05/11/1999

P4642-5-99: Mineralogic & Petrologic Studies of Meteorites & Lunar, 05/11/1999-01/19/2000

P4643-5-99: Studying of X-ray Binaries, with High Energy Frequency Quasi-Periodic Oscillations, 05/10/1999-05/12/1999

P4644-5-99: Ground Based Multi-Spectral Imaging & Mineralogy of Intermediate & Large Diameter Asteroids, 05/11/1999-05/13/1999

P4645-5-99: Expansion of Digital Correlator for the SAO/ASIAA Intereferometer to Eight-Antenna Capacity, 05/07/1999-07/23/1999

P4646-5-99: Spaceborne Astrometric Instrument, 05/18/1999-05/18/1999

P4647-5-99: Seismic Study of the Solar Interior From SOI/MDI Observations, 05/17/1999-08/28/2000

P4648-5-99: High-Latitude Balloon Flights of the FIRS-2 Spectrometer for ILAS-II Validation, 05/19/1999-05/21/1999

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P4649-5-99: EHS Workstations, 05/20/1999-08/17/1999

P4650-5-99: Measurements of Herbig AeBe Stars with/IOTA,  
05/21/1999-05/24/1999

P4651-5-99: Geodetic Investigation of Lithospheric Slab Detachment &  
Mountain Building in the Western Mediterranean, 05/20/1999-12/03/1999

P4652-5-99: Exotic Molecules in Space: Acoordinated Astronomical,  
Laboratory, & Theoretical Study, 05/21/1999-04/05/2000

P4653-5-99: Plasma Conditions in the Inner Corona: Predicted Versus  
Observed EUV Emission A Comprehensive Study, 05/25/1999-05/27/1999

P4654-5-99: Development of the GPA Detector for VUV Space Astrophysics,  
05/26/1999-05/27/1999

P4655-5-99: Ultra-Wide Band Optical Modulation Spectrometer (OMS)  
Development, 05/26/1999-05/27/1999

P4656-5-99: Development of Gas Exchange Imaging Using MRI,  
05/27/1999-05/27/1999

P4657-5-99: An Ultra High Throughput X-ray Astronomy,  
05/27/1999-10/06/1999

P4658-6-99: Tunable FAR Infrared Studies of the Molecular Parameters in  
Support of Stratospheric Measurements, 05/27/1999-06/02/1999

P4659-6-99: Cosmic Horizons: Our Place in Space & Time,  
06/01/1999-06/01/1999

P4660-6-99: HITRAN Database Development for ARM,  
06/03/1999-05/12/2000

P4661-6-99: Independent Research in Optical Inferometry,  
03/30/1999-08/04/1999

P4662-6-99: Synthesis & Verification of the FAME Scientific Measurement  
System, 06/10/1999-06/10/1999

P4663-6-99: #1 & 2 Advanced Solar Coronal Explorer Mission (ASCE),  
05/24/1998-06/18/1999

P4664-6-99: G Dwarf Search, 06/16/1999-06/17/1999

P4665-6-99: Improving Extra Solar Planet Searches by Understanding  
Activity-Related Radial Velocity Noise, 06/16/1999-06/17/1999

P4666-6-99: Toward Low Mass Solar Extra Planets: Understanding the Noise  
in Radial Velocity Searches, 06/16/1999-06/17/1999

P4667-6-99: Statistics & Study of Binaries, Planets & Disks: The Role of  
Microlensing Observations, 06/17/1998-06/19/1999

P4668-6-99: Outer Solar System (Empty Folder - Proposal never issued )

P4669-6-99; Infrared Extinction & the Initial Conditions for Star & Planets Formation, 06/16/1999-06/12/2002

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P4670-6-99: Evolution of Pre-Main Sequence Accretion Disks, 06/16/1999-05/31/2002

P4671-6-99: Direct Detection of Extra-Solar Planets Using Nulling on the IOTA Interferometer, 06/17/1999-06/18/1999

P4672-6-99: Planetesimal Accretion Models: Comparing Model Images & Spectra with Observations, 06/14/1999-06/18/1999

P4673-6-99: Teaching the Civil Rights Movements, 06/16/1999-04/27/2000

P4674-6-99: Origin of the Outer Solar System, 06/16/1999-05/01/2002

P4675-6-99: The Metallicity Dependence of the Cepheid Period Luminosity Relation, 06/21/1999-07/16/1999

P4676-6-99: Research & Project Activities in Astrophysics, 06/23/1999-06/25/1999

P4677-6-99: Multi-Layer Monochromator for the Iodine K Edge Energy Range, 06/23/1999-06/25/1999

P4678-6-99: Project Atlas: Assisted Transnational Learning Using Artificial Satellites, 06/24/1999-04/20/2000

P4679-7-99: Liquid Crystal Optics for Polarization & Spectroscopic Imaging of the Solar Corona, 07/01/1999-07/16/1999

P4680-7-99: Additional Effort of Application of Two Dimensional Imaging to Very High Energy Gamma-Ray Astronomy, 07/01/1999-07/09/1999

P4681-7-99: Gravitational Lenses & the Structure & Evolution of Galaxies, 07/14/1999-03/24/2000

P4682-7-99: Disks & Dynamics: Optimizing Searches for CVs Globular Clusters, 07/14/1999-07/14/1999

P4683-7-99: Is there a Cosmological Constant?, 07/09/1999-09/29/1999

P4684-7-99: Extinct Curves of Distant Galaxies, 07/30/1999-10/29/1999

P4685-7-99: Cancelled - Proposal never issued

P4686-7-99: Cancelled - Proposal never issued

P4687-7-99: Lensed Quasar Hosts at High Redshift, 07/30/1999-09/03/1999

P4688-7-99: Time-Dependant Accretion Disk Models for Quasars & Low Luminosity AGN, 07/13/1999-01/06/2000

P4689-7-99: An Extension of Star Formation Theory, 07/13/1999-07/14/1999

- P4690-7-99: Disks & Accretion-Driven Flows of Pre-Main Sequence Stars, 04/14/1999-07/14/1999
- P4691-7-99: Analysis & Design of a Segmented Optics X-ray Telescope System, 07/15/1999-08/04/1999
- P4692-7-99: An X-ray & Optical Study of an Outburst Of 4U1608-52, 04/20/1999-07/29/1999
- P4693-7-99: Simultaneous Spectral and Timing Observations Of Accreting Neutron Stars, 04/20/1999-07/29/1999
- P4694-7-99: Milli-Second Variability from Accreting Neutron Stars, 04/20/1999-07/29/1999
- P4695-7-99: Fast Timing of X-ray Bursts, 04/20/1999-07/29/1999
- P4696-7-99: Determining the Orbital Parameters of SAX JO635+0533, 04/20/1999-07/29/1999
- P4697-7-99: A Synoptic Study of an X-ray Nova in Outburst, 07/28/1999-07/29/1999
- P4698-7-99: Hard X-ray Emission of X-ray Bursters, 4/20/1999-07/29/1999
- P4699-7-99: Monitoring the Oscillating State of MKN110 With XTE, 07/23/1999-10/22/1999
- P4700-8-99: Monitoring the Stable Pulsar B150-58, 08/02/1999-10/21/1999
- P4701-8-99: Tests of Interferometric Nulling for Direct Exo Planet Detection, 07/30/1999-04/14/2000
- P4702-8-99: Phase-B Analysis of AIRSEDS, 08/04/1999-09/01/1999
- P4703-8-99: Analysis of GPS Data From Greenland 1995-1999, 08/12/1999-01/11/2000
- P4704-8-99: Research in Adaptive Optics Using the Infrared Optical Telescope Array at Mt. Hopkins, 08/18/1999-08/19/1999
- P4705-8-99: Exploring the Full Range of Quasar AGN Properties, 08/23/1999-12/01/1999
- P4706-8-99: The Influence of Abundance Variations on Coronal Structures, 08/25/1999-08/27/1999
- P4707-8-99: Investigating the Dynamical Chromosphere, 08/25/1999-08/27/1999
- P4708-8-99: Basic Modeling of the Solar Atmosphere & Spectrum, 08/24/1999-08/27/1999
- P4709-8-99: Seismic Study of the Solar Interior Inferences From SOI/MDI Observations during Solar Activity, 08/26/1999-06/21/2000

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P4710-8-99: Phase B - Solar B Telescope XRT, 08/30/1999-10/29/1999

P4711-8-99: Laboratory Studies in UV & EUV Solar Physics,  
08/30/1999-08/31/1999

P4712-8-99: Physics of the Heliosphere: Models, Mechanisms &  
Observational Signatures, 08/30/1999-09/02/1999

P4713-8-99: Constraints on Solar Wind Plasma Properties Derived From  
Coordinated Coronal Observation, 08/30/1999-08/31/1999

P4714-9-99: Liquid Crystal Optics for Polarization & Spectroscopic Imaging  
of the Solar Corona, 08/31/1999-08/31/1999

P4715-9-99: The Star Formation History of Orion & Its Environment,  
08/31/1999-09/01/1999

P4716-9-99: Globular Cluster & Their Binaries an Exploration of Linked  
Fates, 08/26/1999-04/24/2000

P4717-9-99: New Data Reduction & Analysis Tools for Helioseismology,  
08/31/1999-09/01/1999

P4718-9-99: Calculations of Electron Impact Excitation of FEXX,  
09/02/1999-11/23/1999

P4719-9-99: The Emission Line Project, 09/03/1999-11/23/1999

P4720-9-99: Analysis of Thermal X-ray Spectral of Supernova Remnants,  
09/08/1999-09/08/1999

P4721-6-99: Design, Fabrication, Assembly & Test of A Wide Field Corrector  
for Mega Prime, 09/08/1999-09/08/1999

P4722-6-99: Support for the Minor Planet Center, 09/08/1999-10/14/1999

P4723-9-99: Optimizing Extra-Solar Planet Searches By Correcting Radial  
Velocity for the Effect Of Satellite Activity, 08/31/1999-09/10/1999

P4724-9-99: SOHO Ultraviolet Coronagraph Spectrometer (UVCS) Mission  
Operations & Data Analysis, 09/10/1999-09/14/1999

P4725-9-99: Chandra Science Center, 09/08/1999-04/03/2000

P4726-9-99: Funtools: FITS Users Need Tools for Quick Quantitative  
Analysis, 09/14/1999-03/01/2000

P4727-9-99: Package for Interactive Analysis of Line Emission,  
09/15/1999-02/16/2000

P4728-9-99: X-ray Spectroscopy of Exotic Ions: Broadband High Resolution  
Measurements with Microcalorimeter on an Electron Beam Ion Trap,  
09/15/1999-04/25/2000



P4729-9-99: Investigation of Advanced Balloon Pointing Design & Technology, 09/15/1999-10/21/1999

P4730-9-99: Clumping, Ionization, & the Dynamics of the Interstellar Medium, 09/17/1999-09/21/1999

P4731-9-99: Continuation of Spaceborne & Astrometric Instrument, 06/10/1998-10/05/1999

P4732-9-99: The Corona of Quiescent in Dwarf Stars, 01/07/1999-09/23/1999

P4733-6-99: Flux Anomaly Studies & Atmospheric Constituent Retrieval from GOME & INDOEX, 09/23/1999-09/24/1999

P4734-9-99: Chandra Science Center: This Proposal Request a Contract Value Increase for Additional Software Development & Testing Support Provided by TRW, Inc., 09/17/1999-08/04/2000

P4735-9-99: Chandra X-ray Observation Support Provided by MIT, Center for Space Research, 03/25/1999-03/03/2000

P4736-9-99: The Antarctic Submillimeter Telescope & Remote Observatory (AST/RO) Project, 09/24/1999-05/03/2000

P4737-9-99: A Survey of Gravitational Lenses, 09/28/1999-10/21/1999

P4738-10-99: Search & Investigation of High Energy Gamma-Ray Sources by Ground-based Cherenkov Telescopes, 09/27/1999-09/29/1999

P4739-10-99: Pattern of Time & Process Scale Variations of Surface Magnetic Activity in Sun-Like Stars: Resolving Stellar Confusion for SIM, 10/06/1999-10/18/1999

P4740-10-99: Differential Surface Rotation & Rotation in Nearby Lower Main Sequence Stars, Including the Sun, 10/05/1999-10/18/1999

P4741-10-99: Quantum Interference Phenomena In Molecular Dissociation, 10/06/1999-10/07/1999

P4742-10-99: Tunable Far Infrared Studies of Molecular Parameters In Support of Stratospheric Measures, 10/08/1999-10/13/1999

P4743-10-99: Properties of Nearby Stars: Surface Magnetic Activity Fits Effect on Photo Center Displacement for the SIM Astrometric Reference Grid, 10/07/1999-10/18/1999

P4744-10-99: Chandra Multi-Wavelength Project (CHAMP), 10/15/1999-10/21/1999

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P4745-10-99: Activities Supporting MSFC, Public Affairs Office, 08/10/1999-10/22/1999

- P4746-10-99: Homogeneous Age Determinations for the Nearby Stars, 10/21/1999-10/21/1999
- P4747-10-99: A Study of the Submillimeter Array Back facility for SAO/ASIAA Interferometer in Hilo, Hawaii, 10/14/1999-10/22/1999
- P4748-10-99: U. S. Astronomers Access to SIMBAD in Strasbourg, France, 10/21/1999-10/22/1999
- P4749-10-99: Proper Motion Study, 10/20/1999-10/25/1999
- P4750-11-99: Investigation of Tether-Stabilized Earth-Imaging Telescope in GEO, 10/21/1999-10/25/1999
- P4751-10-99: The Development & Operation of the Astrophysics Data System, 10/21/1999-10/25/1999
- P4752-10-99: Bread board Ultra light Atmospheric FTS, 10/28/1999-10/29/1999
- P4753-11-99: Multi-wavelength Observations of Gamma-Ray Sources Discovered by GLAST, 11/03/1999-11/03/1999
- P4754-11-99: Telescope Scientist on Chandra X-ray Observatory, 11/08/1999-11/09/1999
- P4755-11-99: Additional Software Development & Testing Support, 11/05/1999-08/04/2000
- P4756-11-99: U-Mass Commissioning - M073051, 11/03/1999-11/04/1999
- P4757-11-99: Stabilization & Reconfiguration of Tethered Connected, 11/15/1999-03/13/2002
- P4758-11-99: CXC, ACIS Instrument Support Provided by MIT, 11/17/1999-04/20/2000
- P4759-11-99: Shocks in Dense Clouds in the Vela Supernova Remnant, 11/24/1999-11/29/1999
- P4760-11-99: A New Method for Constraining Paleoclimate Parameters Using Space Geodetic Determinations of On-going Viscoelastic Adjustment due to Ancient Glacial Loads, 11/29/1999-07/14/2000
- P4761-11-99: Emission Line Project, 11/24/1999-01/21/2000
- P4762-12-99: Study of Electrodynamical Reboost of Space Station MIR, 12/02/1999-12/03/1999
- P4763-12-99: U. S. Team Member Participation in the Ozone Monitoring Instrument EOS AURA, 12/06/1999-12/07/2001
- P4764-12-99: U. S. Team Leader Proposal for the Ozone Monitoring Instrument EOS AURA CHEM, 12/06/1999-12/08/1999
- P4765-12-99: Mirror Host for EDP Sciences, 12/08/1999-10/10/2001

P4766-12-99: Development of Real-Time Software for Phase Closure Measurements Incorporating Fringe-Packet, Tracking, Visible Star Tracking, & Infrared Star Tracking, 12/10/1999-12/16/1999

P4767-12-99: Extro Terrestrial Environment of the Young Earth, 12/28/1999-12/28/1999

P4768-01-00: Constellation-X Mission Microcalorimeter Development, 01/06/2000-01/12/2000

P4769-01-00: Tuneable XUV Imager Sounding Rocket, 11/03/1999-11/08/1999

P4770-01-00: The Fabrication of a Cylindrical Spiral Point-to Point Focusing X-ray Optic, 01/13/2000-02/24/2000

P4771-01-00: A Bright X-ray Transient in M31, 01/13/2000-01/16/2000

P4772-01-00: First Comprehensive High Spectral Resolution Study of Stellar Coronae: 1999 Chandra, HST, EUVE, SAX & VLA Resolution Study, 03/14/2000-03/17/2000

P4773-01-00: An Astro-E Observation of an Intermediate Polar, 01/20/2000-1/24/2000

P4774-01-00: Strangely Bright Core of the Thermal Composite SNR W44, 01/24/2000-01/26/2000

P4775-01-00: Photospheric FE K Fluorescence as a New Probe of Coronal Geometry, 01/24/2000-01/25/2000

P4776-01-00: Exploring the Nursery Ward of Anomalous X-ray Pulsars, 01/24/2000-01/26/2000

P4777-01-00: High Resolution Spectroscopy of the VELA BULLET D Region, 01/24/2000-01/26/2000

P4778-01-00: Luminous Cluster IEO657-56 Merging & Radio Formation, 01/24/2000-01/26/2000

P4779-01-00: An XRS Observation of the Supernova Remnant KES 79, 01/26/2000-01/27/2000

P4780-01-00: The Thermal & Clerical Structure of the Hot Coronal Component of AD LEO, 01/27/2000-01/28/2000

P4781-01-00: Support of Pre-Formation Phase (PFP) Architecture Study, 01/28/2000-01/31/2000

P4782-02-00: Development of Large-format Silicon Drift Detectors, 02/03/2000-02/07/2000

P4783-02-00: Advanced X-ray Monitor (AXM), 02/01/2000-02/07/2000

P4784-02-00: The Annual Contribution to the Operation Of the 2 MASS Telescope, 02/02/2000-02/07/2000

P4785-02-00: Continue Operations Support for 2 Micron all Sky Survey on 2 MASS Telescope, 02/02/2000-02/07/2000

P4786-02-00: Detectors with Break through Energy Resolution Using Magnetic Sensors, 02/07/2000-02/10/2000

P4787-02-00: Milkyway Magnetic Field Mapping Mission (M4), 02/10/2000-02/11/2000

P4788-02-00: Densely Packed Large Format Microcalorimeter Arrays, 02/10/2000-02/14/2000

P4789-02-00: Light Weight Multilayer Coated, Thin Plastic Foil, Hard X-ray Telescope, 02/11/2000-02/14/2000

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P4790-02-00: Precise Control of Optical Figure of Deformable Ultra-Light Optics Using Integral Piezoelectric Thin Films, 02/14/2000-02/14/2000

P4791-02-00: Structure & Dynamics of Solar Chromosphere, 02/14/2000-02/15/2000

P4792-02-00: Hot Intergalactic Medium Spectroscopy Mission (HIMS), 02/14/2000-02/15/2000

P4793-02-00: Data Analysis Support for SAO Observers Using The VSOP Space VLBI Mission, 02/14/2000-10/19/2000

P4794-02-00: Balloon Borne Microcalorimeter Nuclear-Line Explorers (B-Mine), 02/11/2000-02/16/2000

P4795-02-00: The Stratospheric Observatory for Astronomical Research (SOAR), 02/15/2000-02/16/2000

P4796-02-00: Dual-Channel Extreme Ultra Violet Coronal Explorer (DEUCE), 02/16/2000-02/17/2000

P4797-02-00: Replace the Ion Pump Elements in SAO VLG-10 Series H-Maser Serial #4, 02/17/2000-03/08/2000

P4798-02-00: Development & Application of Advanced Nuclear Magnetic Resonance (NMR), 02/22/2000-02/23/2000

P4799-02-00: Ozone Profile Retrieval Studies Using the Linearized Radiative Transfer Model Lidort, 02/16/2000-06/27/2000

P4800-02-00: Creation of National Science Foundation (NSF)Center for Teaching & Learning, 02/23/2000-03/06/2000

P4801-02-00: An X-ray Monochromater to be used in Laser-based Monoenergetic & Tunable X-ray System for DESA, 02/24/2000-02/22/2001

P4802-02-00: A Knowledge-Based Approach to Clutter Suppression Optically Thin Cloud Detection in Hyper Spectral Imagery, 02/28/2000-03/02/2000

- P4803-03-00: SAO with the United States Olympic Committee (USOE),  
02/29/2000-04/14/2000
- P4804-03-00: Spectroscopy of Low Mass X-ray Binaries: New Insights Into  
Accretion, 3/25/2000-09/14/2000
- P4805-03-00: Coronal Thermal Structure & Abundance of Super-Metal Rich  
Late-Type Stars, 02/29/2000-08/31/2000
- P4806-03-00: Cloud Retrieval Algorithm for GOME Additional Studies,  
02/25/2000-03/01/2000
- P4807-03-00: A Deep X-ray Survey of Low Mass PMS Stars in NGC 2264,  
03/20/2000-02/23/2001
- P4808-03-00: The X-ray Halo & Spectrum of the Unusual O Star HD 148937,  
11/30/1999-09/14/2000
- P4809-03-00: The Origin & Distribution of Heavy Elements in the CD Group  
MKW4 & AMW4, 03/02/2000-08/31/2000
- P4810-03-00: Clump Giants in the Hyades, 03/02/2000-08/18/2000
- P4811-03-00: Black Hole Event Horizon & Advection Dominated Accretion,  
03/03/2000-09/05/2000
- P4812-03-00: The Evolution of CTB-109, 03/03/2000-08/31/2000
- P4813-03-00: The Synchrotron Nebula in MSH15-56, 03/03/2000-08/31/2000
- P4814-03-00: XMM Study of the Supernova Remnant W44,  
03/03/2000-08/30/2000
- P4815-03-00: Studying the Iron Line Complex in the Bright Seyfert Galaxy  
NGC 5506, 03/03/2000-09/05/2000
- P4816-03-00: Beppo SAX/XMM Observations of the Soft & Hard X-ray  
Coupling in the Compact Jet Source GX-339-4, 03/07/2000-09/14/2000
- P4817-03-00: XMM Observations of Saturn, 03/11/2000-09/12/2000
- P4818-03-00: The Oscillating States of MKn110, 03/06/2000-03/07/2000
- P4819-03-00: Exploring the Hard X-ray Spectrum of the Bright NLSY 1 MrK  
1044, 03/06/2000-03/07/2000
- P4820-03-00: Investigating the Enigmatic Source X-9 Near M81,  
03/06/2000-03/07/2000
- P4821-03-00: A Beppo SAX Broad Band Study of the Variable X-ray  
Features of the Bright Seyfert 1 Galaxy NGC 3516, 03/06/2000-03/07/2000
- P4822-03-00: Multi-Epoch XMM Observations of NGC 4258,  
03/08/2000-03/09/2000

P4823-03-00: Simultaneous X-ray & Optical Timing Observations of  
GX-339-4, 03/08/2000-03/08/2000

P4824-03-00: Temperature Function for Distant Clusters High-T- End,  
03/08/2000-09/07/2000

P4825-03-00: Possible Very Distant or Optically Dark Clusters of Galaxies,  
03/08/2000-09/06/2000

P4826-03-00: Hybrid Stars & Coronal Evolution, 03/08/2000-08/30/2000

P4827-03-00: The Consequences of Galaxy Feedback on Clusters of  
Galaxies, 03/08/2000-09/08/2000

P4828-03-00: RGS Spectroscopy of the Cygnus Loop XA Knot,  
03/08/2000-08/30/2000

P4829-03-00: Mass & Dynamical Structure of the Lensing Clusters  
CL0024+17 & CL 2244-02, 03/08/2000-09/05/2000

P4830-03-00: New Star Forming Regions Associated with the Gould Belt,  
03/08/2000-09/08/2000

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P4831-03-00: Metallicity Effects on Stellar Magnetic Activity: Blanco1 as a  
Test Case, 03/08/2000-09/08/2000

P4832-03-00: The Coronal Spectra of Nearby Halo DM Stars,  
03/08/2000-09/08/2000

P4833-03-00: Multi-Temperature Emission & Abundances in the Hot  
Gaseous Halo, 03/08/2000-09/08/2000

P4834-03-00: The X-ray Baldwin Effect: Z=2 FE-K & Compton Humps as  
Ionized Disk Diagnostics, 03/08/2000-08/18/2000

P4835-03-00: From the Cluster Temperature Function to the Mass Function  
at Low Z, 03/08/2000-09/05/2000

P4836-03-00: Getting to Know G29.7-0.3, Inside and Out,  
03/08/2000-09/06/2000

P4837-03-00: Variable Super-Eddington Sources in Nearby Galaxies,  
03/08/2000-03/10/2000

P4838-03-00: A 1367- A Cluster in Formation, 03/09/2000-09/05/2000

P4839-03-00: A 4 MPC X-ray Filament Falling into The Cluster A85,  
03/09/2000-08/31/2000

P4840-03-00: Centaurus A- Source Populations in the Nearest Bright  
Elliptical, 03/09/2000-08/30/2000

P4841-03-00: Probing for Pulsars: An XMM, Study of the composite SNRS  
G327.1-1.1 & CTA 1, 03/09/2000-09/06/2000

- P4842-03-00: Activity Cycles in Solar-Type-Stars, 03/09/2000-09/07/2000
- P4843-03-00: Spectroscopy of the Perseus Cluster, 03/09/2000-09/05/2000
- P4844-03-00: The Antennae: NGC 4038/4039, 03/09/2000-08/18/2000
- P4845-03-00: The SOMBRERO: An Edge-On Spiral: HALO Dynamics A Massive Dark Object & XRBS, 03/09/2000-08/21/2000
- P4846-03-00: Coronal Diagnostic of the Intermediate Activity Star XI BOO A, 03/10/2000-08/18/2000
- P4847-03-00: Completing the Local AGN Inventory: The AGN Content of Composite Nuclei Cycle 9, Phase II, 04/04/2000-05/15/2000
- P4848-03-00: Plasma Conditions in the Inner Corona: Predicted Versus Observed EUV Emission-A Comprehensive Study, 03/15/2000-03/16/2000
- P4849-03-00: A Focal Plane Stellar X-ray Polarimeter for the Spectrum X-Gamma Mission, 03/14/2000-03/21/2000
- P4850-03-00: Metal Mesh Fabrication & Testing for Infrared Astronomy & ISO Science, 03/20/2000-03/22/2000
- P4851-03-00: Outbursts in Symbiotic Binaries, 03/21/2000-08/30/2000
- P4852-03-00: Tuneable XUV Imager (TXI) Sounding Rocket, 03/17/2000-03/23/2000
- P4853-03-00: A Search for Super Planets around Weak-T-Tauri Stars, 03/21/2000-03/24/2000
- P4854-04-00: NSF Planning Grant: Sport Smarts, 03/29/2000-04/05/2000
- P4855-04-00: Mass Space Grant Program, 10/20/1998-10/15/1999
- P4856-04-00: Development of Small High-Stability Rb Maser Atomic Clocks, 04/18/2000-04/24/2000
- P4857-04-00: A Comprehensive X-ray and Optical Study of An Outburst of 4U1608-52, 04/20/2000-05/03/2000
- P4858-04-00: Fast Timing of X-ray Burst, 04/20/2000-04/25/2000
- P4859-04-00: Simultaneous Spectral and Timing Observations of Accreting Neutron Stars, 04/20/2000-05/03/2000
- P4860-04-00: Hard X-ray Emission of X-ray Bursters, 04/20/2000-04/25/2000
- P4861-04-00: High Energy Resolution Detectors for X-ray & Gamma Ray, 04/21/2000-07/27/2001
- P4862-04-00: Student/Faculty Research Enrichment in Space Science, 04/21/2000-07/27/2000

P4863-04-00: Blending & the Extragalactic Distance Scale: Accurate  
DIRECT Distance to M33, 04/18/2000-04/26/2000

P4864-04-00: Organic Molecules in Space: A Laboratory & Observational  
Study, 04/25/2000-04/25/2000

P4865-04-00: Energetic Atoms in the Martian Atmosphere,  
04/21/2000-04/24/2000

P4866-04-00: SAO's Participation in Satellite Observations of Regional  
Pollution over the United States, 04/24/2000-04/24/2000

P4867-04-00: HRC Launch Delay & Spares Production,  
01/15/2000-11/14/2000

P4868-04-00: Large Format Solid State X-ray Detectors for X-ray Astronomy,  
04/26/2000-04/27/2000

P4869-04-00: Repair of Maser VLG 10 Serial No. P3, 04/25/2000-05/25/2000

P4870-04-00: Membership & Coronal Activity in the RCRAT Association,  
04/25/2000-04/28/2000

#### Box 17

##### Contract Files

NAS8-32672 (F): Facilities in Support of Scientific Programs including  
NAS8-27969, NAS8-30453, and NAS8-30751 in Cambridge, MA,  
12/21/1978-10/28/1997 (2 folders)

NAS8-36123: Advanced X-Ray Astrophysics Facility (AXAF) - Contracts and  
modifications, 11/15/1984-01/19/2000 (2 folders)

NAS8-36123: Advanced X-Ray Astrophysics Facility (AXAF),  
11/15/1984-01/19/2000

#### Box 18

NAS8-36123: Advanced X-Ray Astrophysics Facility (AXAF) - Proposals,  
11/15/1984-01/19/2000

NAS8-36123: Advanced X-Ray Astrophysics Facility (AXAF) -  
Correspondence and foreign travel, 11/15/1984-01/19/2000

NAS8-36123: Advanced X-Ray Astrophysics Facility (AXAF) - Property,  
11/15/1984-01/19/2000 (3 folders)

#### Box 19

NAS8-36123: Advanced X-Ray Astrophysics Facility (AXAF) - Reports and  
deliverables, 11/15/1984-01/19/2000 (Folders 1-5 of 6)

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NAS8-36123: Advanced X-Ray Astrophysics Facility (AXAF) - Reports and deliverables, 11/15/1984-01/19/2000 (Folder 6 of 6)

NAS8-36123: Advanced X-Ray Astrophysics Facility (AXAF) - Financial reports, 11/15/1984-01/19/2000

NAS8-36809: Investigation of EM Emissions by the Electro-dynamic Tether, Inclusive of an Observational PGM - Contracts and modifications, 10/01/1985-10/28/1998 (3 folders)

NAS8-36809: Investigation of EM Emissions by the Electro-dynamic Tether, Inclusive of an Observational PGM - Correspondence, 10/01/1985-10/28/1998

NAS8-36809: Investigation of EM Emissions by the Electro-dynamic Tether, Inclusive of an Observational PGM - Financial reports, 10/01/1985-10/28/1998

NAS8-36809: Investigation of EM Emissions by the Electro-dynamic Tether, Inclusive of an Observational PGM - Foreign travel, 10/01/1985-10/28/1998

NAS8-36809: Investigation of EM Emissions by the Electro-dynamic Tether, Inclusive of an Observational PGM - Progress reports, 10/01/1985-10/28/1998

NAS8-36809: Investigation of EM Emissions by the Electro-dynamic Tether, Inclusive of an Observational PGM - Property, 10/01/1985-10/28/1998

#### Box 21

NAS8-36810: Investigation and Measurement of Dynamic Noise in Tethered Satellite Systems - Contracts and modifications, 12/30/1985-01/28/1999 (2 folders)

NAS8-36810: Investigation and Measurement of Dynamic Noise in Tethered Satellite Systems - Correspondence, 12/30/1985-01/28/1999

NAS8-36810: Investigation and Measurement of Dynamic Noise in Tethered Satellite Systems - Financial reports, 12/30/1985-01/28/1999

NAS8-36810: Investigation and Measurement of Dynamic Noise in Tethered Satellite Systems - Foreign travel, 12/30/1985-01/28/1999

NAS8-36810: Investigation and Measurement of Dynamic Noise in Tethered Satellite Systems - Progress reports, 12/30/1985-01/28/1999

NAS8-36810: Investigation and Measurement of Dynamic Noise in Tethered Satellite Systems - Property, 12/30/1985-01/28/1999

NAS8-37710: Assignment of H. Tananbaum as Alternate COTR for TRW contract with NASA, 12/17/1997-01/25/1999

NAS8-37752: Construction and In Space Performance Evaluation of High Stability Hydrogen, 08/11/1988-06/02/1995

NAS8-38665: Space Station Freedom-Lamar, 05/01/1990-06/18/1996

Box 22

NAS8-39194: Development and In Space Evaluation of a High Stability Hydrogen Maser Clock - Contracts and modifications, 07/18/1991-02/28/1997 (3 folders)

NAS8-39194: Development and In Space Evaluation of a High Stability Hydrogen Maser Clock - Proposals, 07/18/1991-02/28/1997

NAS8-39194: Development and In Space Evaluation of a High Stability Hydrogen Maser Clock - Correspondence, 07/18/1991-02/28/1997 (2 folders)

NAS8-39194: Development and In Space Evaluation of a High Stability Hydrogen Maser Clock - Financial reports, 07/18/1991-02/28/1997

NAS8-39194: Development and In Space Evaluation of a High Stability Hydrogen Maser Clock - Foreign travel, 07/18/1991-02/28/1997

NAS8-39194: Development and In Space Evaluation of a High Stability Hydrogen Maser Clock - Progress reports, 07/18/1991-02/28/1997

NAS8-39194: Development and In Space Evaluation of a High Stability Hydrogen Maser Clock - Property, 07/18/1991-02/28/1997

NAS8-40224: AXAF Research and Development Effort - Contracts & Modifications, 08/01/1994-03/08/2001 (3 folders)

NAS8-40224: AXAF Research and Development Effort - Proposals, 08/01/1994-03/08/2001

Box 23

NAS8-40224: AXAF Research and Development Effort - Correspondence, 08/01/1994-03/08/2001

NAS8-40224: AXAF Research and Development Effort - EVS Screening, 08/01/1994-03/08/2001

NAS8-40224: AXAF Research and Development Effort - Financial reports, 08/01/1994-03/08/2001 (4 folders)

NAS8-40224: AXAF Research and Development Effort - Foreign travel, 08/01/1994-03/08/2001

NAS8-40224: AXAF Research and Development Effort - Property, 08/01/1994-03/08/2001

NAS8-40224: AXAF Research and Development Effort - Progress reports, 08/01/1994-03/08/2001

NAS8-40224: AXAF Research and Development Effort - Deliverable documents, 08/01/1994-03/08/2001 (Folders 1-3 of 6)

Box 24

NAS8-40224: AXAF Research and Development Effort - Deliverable documents, 08/01/1994-03/08/2001 (Folders 4-6 of 6)

NAS8-97104 (F): Facilities in Support of Scientific Programs, 12/17/1996-12/14/2000

NAS8-99099: Solar-B X-ray Telescope - Contracts & Modifications, 02/01/1999-06/28/2001

NAS8-99099: Solar-B X-ray Telescope - Correspondence, 02/01/1999-06/28/2001

NAS8-99099: Solar-B X-ray Telescope - Foreign Travel, 02/01/1999-06/28/2001

NAS8-99099: Solar-B X-ray Telescope - Presentations, 02/01/1999-06/28/2001

NAS8-99099: Solar-B X-ray Telescope - Progress Reports, 02/01/1999-06/28/2001

NAS5-30934: ROSAT Science Data Center - Contracts and modifications, 09/04/1990-07/14/1999 (2 folders)

NAS5-30934: ROSAT Science Data Center - Correspondence, 09/04/1990-07/17/1999

NAS5-30934: ROSAT Science Data Center - Financial Reports, 09/04/1990-07/17/1999

NAS5-30934: ROSAT Science Data Center - Foreign travel, 09/04/1990-07/17/1999

Box 25

NAS5-30934: ROSAT Science Data Center - Property, 09/04/1990-07/17/1999

NAS5-30934: ROSAT Science Data Center - Progress reports, 09/04/1990-07/17/1999

NAS5-31330: Analysis of Management Support for Laser Ranging Operations in Europe and North America - Contracts & Modifications, Proposals, Financial Reports, 04/12/1991-06/04/1996

NAS5-31330: Analysis of Management Support for Laser Ranging Operations in Europe and North America - Correspondence, Property, 04/12/1991-06/04/1996

NAS5-31330: Analysis of Management Support for Laser Ranging Operations in Europe and North America - Foreign travel, 04/12/1991-06/04/1996 (2 folders)

NAS5-31330: Analysis of Management Support for Laser Ranging Operations in Europe and North America - Progress reports, 04/12/1991-06/04/1996

NAS5-32061: US Gateway to SIMBAD Astronomical Database,  
07/31/1992-11/06/2002

NAS5-32779: A US Coordination Facility for the Spectrum-X-Gamma  
Observatory - Contracts & Modifications, 10/1/1994-02/06/2004

NAS5-32779: A US Coordination Facility for the Spectrum-X-Gamma  
Observatory - Proposals, 10/1/1994-02/06/2004

NAS5-32779: A US Coordination Facility for the Spectrum-X-Gamma  
Observatory - Correspondence, 10/1/1994-02/06/2004

NAS5-32779: A US Coordination Facility for the Spectrum-X-Gamma  
Observatory - Foreign travel, 10/1/1994-02/06/2004

NAS5-32779: A US Coordination Facility for the Spectrum-X-Gamma  
Observatory - Financial reports, 10/1/1994-02/06/2004

Box 26

NAS5-32779: A US Coordination Facility for the Spectrum-X-Gamma  
Observatory - Progress reports, 10/1/1994-02/06/2004

NAS5-32779: A US Coordination Facility for the Spectrum-X-Gamma  
Observatory - Property and equipment, 10/1/1994-02/06/2004

NAS5-32800: Distribution of a Generic Mission Planning and,  
10/19/1994-09/23/2003

NAS5-96023: Enhancement to Hitran to Support NASA EOS Program,  
04/19/1996-10/17/2001

NAS5-99002: ROSAT Data Science Center, 04/01/1999-02/02/2004

NAS5-99185: MIDEX Phase A, Advanced Solar Corona Explorer,  
03/11/1999-04/17/2003

F49620-94-1-0112 (Air Force): Investigation of Atomic Physics  
and Frequency Stability with a Cryogenic Hydrogen Maser,  
01/15/1994-06/11/2002

F49620-98-1-0076 (Air Force): Investigation with the Cryogenic Hydrogen  
Maser and the Double-Bulb Rubidium Maser, 11/01/1997-06/24/2002

1808/55000/4658 (CPB): The Annenberg/Corporation for Public  
Broadcasting (CPB) Channel on PBS, 11/14/1997-07/26/1999

1808/1908/5042 (CPB): Annenberg/CPB Channel Core Services,  
07/01/1998-09/14/2001

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1902/55500/5076 (CPB): Annenberg/CPB Math and Science Workshops,  
07/31/1998-09/24/2002 (2 folders)

1908/80616/4072 (Annenberg/CPB): A/CPB Television Services,  
08/05/1996-02/05/1999

51000/5287 (CPB): Teaching the Civil Rights Movement,  
04/28/2000-09/04/2001

10224 (Annenberg/CPB): Harvard-Smithsonian Case Studies in Science  
Education, 04/15/1994-01/08/1998 (2 folders)

GF-1001-97 (AURA): Mapping Star Forming Regions,  
09/02/1997-02/19/1999

Bekey Designs: Tether-Stabilized Earth-Imaging Telescope in GEO,  
04/10/2000-04/12/2001

P876554 (A/CPB/Brown): Teleconference Videos and CD ROM,  
11/19/1997-10/20/1999

P887733 (Brown): Tests for Microcalorimeter Detector,  
10/01/1998-03/12/2001

10196 (Composit Opt): Optical Ray Trace Analysis, 02/11/1998-05/20/1999

10320 (Composit Opt): Development of Mirror Model Software and an  
Associate Analysis, 05/01/1998-03/18/1999

32127-6013 (Cornell University): Radio Studies in the Solar System,  
11/01/1998-12/08/2000

540/95019478 (Dornier): Design and Fabricate Flexible Support Hardware,  
05/20/1998-04/05/1999

LTR 12/6/93 (Astro/Research): Construction of High Efficiency Fiber Feed to  
the Advanced Fiber Optic Echelle, 12/06/1993-04/05/1996

332/60570147 (German Aero): Data Analysis Studies for Gome and  
Sciamachy, 10/01/1995-01/31/1997

331/60570711 (German Aero): Study of Cloud Retrieval for Gome  
Development, 02/06/1998-07/23/1999

332/60570480 (German Aero): Data Analysis Studies for Gome and  
Sciamachy, 01/01/1997-07/19/2002

52870 (Gresham Sci): X-Ray Optic and Mounting Stand,  
02/17/2000-02/02/2001

EDP LTR (EDP Sciences, 03/26/99): Mirror Host, 04/01/1999-04/12/2001

SUB/PHY-93-12572 (Harvard): SAO Participation with Harvard University In  
NSF Grant PHY-93-12572, 08/15/1995-10/12/1999

8708-27458 (John Hopkins): A Multiwavelength Study of Molecules in the  
Interstellar Medium, 06/01/1997-08/21/2000

SYBEL3701F (NASA/GSFC): Initial Design of XUV Instrument,  
10/14/1997-06/02/1998

1544 (Lowell Obser): Multiwavelength Activity Profiles of Cool Stars,  
05/01/1996-10/19/1998

GXD 738876 (MIT Haystack): Technical Services, 12/03/1997-07/09/1998

MICH LTR 9/15/98 (MICH TECH): Dynamic Analysis of the Astor Tether  
Experiment, 09/27/1998-02/14/2001

Box 28

TMTC (Michigan Tech, 8/31/99): Phase-B Analysis of Aireds,  
09/01/1999-04/03/2001

LTR (Mt. Wilson, 12/16/98): Mt. Wilson Institution's Sun/Climate Research  
Program, 01/01/1999-10/01/1999

M.O.S. Agreement (M.O.S., 6/98): Project Astro, 04/01/1998-03/29/2001

S-13963-G (NASA/GSFC): Rosat, 02/16/1999-09/14/2001

H-27835D (NASA/MSFC): Study of a Solar X-Ray Telescope,  
02/28/1997-08/05/1998

N00173-95-F-D026 (NRL): Refit and Shipment of 1 Maser,  
04/17/1995-12/19/1996

N00173-95-F-D012 (NRL): Refit and Shipment of 2 Masers,  
02/01/1995-12/19/1996

N00014-97-P-2039 (NRL): Analysis of Tips Flight Data,  
04/14/1997-11/20/1997

60NANB3D1429 (NIST): Development of a Dual Noble Gas Maser for Use in  
a Precision Test Of Time Reversal Invariance, 09/24/1993-05/27/1997

204253 (NRAO): Repair Hydrogen Maser, 05/02/2000-04/26/2001

ONSALA LTR (SEST, 7/19/96): Repair of a Hydrogen Maser,  
08/07/1996-09/12/1996

ONSALA LTR (ONSALA OBSERV, 3/1/00): Replace Ion Pump Elements in  
VLG-10 Series H Maser, Serial No. 4, 03/01/2000-01/25/2002

351288-A-Q5 (Battell Labs): Support to the Atmospheric Radiation  
Measurement (ARM) Program, 04/21/1995-08/29/2000

PI 430-003 (SETI): Project Phoenix, 08/15/1996-07/18/2001

P1012S01 (RJH Science): Analysis and Design of a Segmented Optics X-  
Ray Telescope Program, 08/01/1999-12/05/2000

DMI-9861389-267 (SRL): Probing Porous Media, 02/15/1999-10/18/1999

OLOSPMJP-05 (SI WASH): Metal Mesh Fabrication and Testing for Infrared Astronomy and ISO Science, 10/01/1999-04/26/2000

SMITHSONIAN - 1999 (Franklin): Search for Terrestrial Temperature Material Around Young Open Cluster and Field Stars, 09/01/1999-04/30/2001

211-2494A (State University New York): Laser Based Monoenergetic and Tunable X-Ray System, 07/10/1999-02/02/2001

UG1-332 (Civilian R&D): High Precision Satellite Laser Ranging to Study Dynamics of the Solid Earth and the Ocean, 07/01/1997-07/10/2001

N62285-93-X-0014 (USNO): Glassware Assembly for VLG-12 Maser, 03/27/1995-04/25/1996

N00600-96-C-3921 (U.S. Navy OB): A Feasibility and Architectural Study of a Spaceborne Astrometric Instrument, 09/15/1996-12/30/1998

N62285-99-M-0004 (USNO): Spaceborne Astrometric Instrument, 10/01/1998-01/11/2000

SA1296-23336 (UC Berkeley): PGA Science Information Infrastructure for Access to Earth and Space Science Data Through Museums, 02/01/1995-04/14/2000

SA2078-26310 (University of California): Multiwavelength Observations of Hercules X-1, 10/01/1998-07/25/2001

153-1747 (University of Colorado): Analysis of GPS Data from Greenland 1995-1999, 11/01/1999-04/18/2001

UP1-365 (Civil R&D): Ground Based High Energy Gamma Ray Investigator, 07/01/1997-07/18/2001

07600-012 (USRA): An Ultra High Throughput X-Ray Astronomy Observatory with a New Mission Architecture, 11/01/1998-09/13/1999

RG 95-0228 (Whitaker): Development of Diode Laser, 12/01/1995-04/01/2002

960242 (JPL): Formulation of a Road Map for the Exploration of Neighboring Planetary Systems, 03/30/1995-04/03/1997

960597 (JPL): Completion of Precision Optical, 05/16/1996-03/17/1999

AST-9321943 (NSF): Research Experiences for Undergraduate (REU) Site at SAO, 03/15/1994-08/24/1999

AST-9521777 (NSF): Constraining the Solar Activity Cycle Using GONG Data, 03/01/1996-10/10/2001

AST-9528563 (NSF): Strength, Distribution and Generation of Magnetic Flux on Cool Stars, 08/01/1996-05/10/2002

AST-9722839 (NSF): Support for the Tenth Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, 06/01/1997-03/11/2003

AST-9803423 (NSF): SOHO VI/GONG Workshop, 05/01/1998-06/09/1999

ATM-9521733 (NSF): An Innovative Approach to Probing Polar Coronal Holes: Simultaneous Observations with Fe IX 3801, Fe X 6374, Fe XI 7892, and Fe IV 5303 during Total Solar Eclipses, 04/15/1996-02/05/2001

ATM-9615446 (NSF): Solar Flux Tube Models with Radiative Transfer, 12/01/1996-10/10/2001

ATM-9802842 (NSF): Sixth SOHO and GONG 1998 Workshop, 03/15/1998-10/10/2001

BES-9612237 (NSF): Magnetic Resonance Imaging and Spectroscopy of Laser-Polarized Nobel Gases for Biomedical, Geophysics, and Materials Science Investigations (Collaborative Research), 09/15/1996-03/29/2001

EAR-9727055: A Study of Sea Level Change in the Northeastern US Using GPS and Tide Gauge Data with Applications to Global Sea Level Changes, 09/15/1997-10/10/2001

#### Box 29

##### Grant Files

NAG5-626: A Normal Incidence X-Ray Telescope Sounding Rocket Payload, 08/07/1984-10/19/1998

NAG5-682: Development of High Resolution Imaging Detectors and Optics for X-Ray Astronomy, 05/10/1991-10/23/1996

NAG5-1709: Physical Structure of Three Symbiotic Binaries, 07/18/91-06/22/98

NAG5-1871: Comparison of the Dark and Luminous Mass, 02/11/1992-10/01/1998

NAG5-1884: Soft X-Ray Spectra of AGN Discovered Via Their Hard X-Ray, 02/04/1992-08/18/1999

NAG5-1885: X-Ray Variability: A Probe of Heating Mechanism of Inactive Coronae, 03/18/1992-06/19/1998

NAG5-1930: Measurement and Interpretation of Crustal Deformation Rates Associated with Postglacial Rebound, 03/11/1992-10/19/1998

NAG5-1937: The Soft X-Ray Emission Component of Spiral Galaxies, 03/18/1992-08/18/1999

NAG5-1938: The Supernova Remnant CTA, 03/18/1993-07/24/1998

NAG5-2049: Environmental Impact of Intra-Cluster Medium on the Interstellar Medium in Early Type Galaxies, 07/29/1992-07/31/1998

NAG5-2063: Soft X-Ray Emission From Boundary Layers in Cataclysmic Variables, 08/14/1992-10/16/1995



NAG5-2096: HRI Imaging of Cooling Flows, 09/28/1992-10/16/1995

NAG5-2097: A Study of Low Luminosity, Low Temperature X-Ray Clusters, 09/28/1992-08/27/1996

NAG5-2104: SLEW Survey Sources in the ROSAT Survey, 10/21/1992-05/15/1997

NAG5-2119: ROSAT PSPC and HRI Observations of Supernova Remnant G292.0+1.8, 10/07/1992-01/20/1999

NAG5-2123: FE Line Diagnostics of Multiply Shocked Stellar Atmospheres: the Mira S Carinae, 11/16/1992-07/06/1998

NAG5-2145: An X-Ray/Optical Study of the Densest Mass Concentration in the Local Universe, 12/15/1992-02/12/1996

NAG5-2152: High Resolution Observations of Elliptical Galaxies, 12/14/1992-07/31/1998

NAG5-2155: Gravitating Masses of Poor Clusters of Galaxies, 12/15/1992-07/22/1998

NAG5-2163: Observations of Bright AGN and BL LACS, 01/20/1993-08/04/1998

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NAG5-2156: ROSAT PSPC Observations of CL0016+16, 01/20/1993-11/12/1999

NAG5-2157: Optically Well-Studied Clusters With Cool Gas Temperatures, 02/04/1993-10/24/1995

NAG5-2171: A Deep Imaging Survey of NGC 6475, 12/30/1992-07/08/1998

NAG5-2173: IUE Observations of HOT and ROSAT Targets in Cygnus Loop, 01/23/1993-05/03/1996

NAG5-2174: Deep SWP Spectra of Marginal by DRA Stars and UV Spectra of the Super-Cycle

Star: HD 10780, 01/25/1993-10/23/1996

NAG5-2175: Range of Continuum Properties and the UV/Soft X-Ray Connection for Quasars, 01/12/1993-10/23/1996

NAG5-2179: Study of the Atmosphere of Alpha Orionis, 01/12/1993-09/07/1995

NAG5-2180: Inverse Compton Emission from Relic Radio Sources, 01/15/1993-08/12/1994

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