

Appendix B. Acronyms

AANM	Astronomy and Astrophysics in the New Millennium Survey	CCSDS	Consultative Committee for Space Data System
ACE	Advanced Composition Explorer	CDF	Chandra Deep Field
ACEIT	Automated Cost Estimating Integrated Tools	CDR	Critical Design Review
ACIS	AXAF CCD Imaging Spectrometer	CE	Control Electronics
ACS	Attitude Control System	CEH	Cost Estimating Handbook
ASIC	Application Specific Integrated Circuit	CESR	Centre d'Etude Spatiale des Rayonnements
ADAM™	Able Deployable Articulated Mast	CEU	Central Electronic Unit
ADR	Adiabatic Demagnetization Refrigerator	CfA	Center for Astrophysics
ADRC	ADR Controller	CFRP	Carbon Fiber Reinforced Plastic
AGILE	Astro-rivelatore Gamma a Immagini LEggero	CIAO	Chandra Interactive Analysis of Observations
AGN	Active Galactic Nucleus	CL	Confidence-level
AIAA	American Institute of Aeronautics and Astronautics	CMOS	Complementary Metal–oxide–Semiconductor
AO	Announcement of Opportunity	CNES	Centre National d'Etudes Spatiales
APS	Active Pixel Sensor	COBE	Cosmic Background Explorer
ASCA	Advanced Satellite for Cosmology & Astrophysics	Con-X	Constellation-X
ASIC	Application-Specific Integrated Circuit	COTS	Commercial Off-the-Shelf
ASIST	Advanced System for Integration and Spacecraft Testing	CPU	Central Processing Unit
AST	Autonomous Star Tracker	DA	Data Analysis
ASTEROID	Active current Switching Technique ReadOut In X-ray spectroscopy with DEPFET	DC	Direct Current
ATP	Authorization to proceed	DE	Dark Energy
AXAF	Advanced X-ray Astrophysics Facility	DEA	Detector Electronics Assembly
BBXRT	Broad Band X-ray Telescope	DEPFET	Depleted P-channel Field Effect Transistor
BEPAC	Beyond Einstein Program Assessment Committee	DEU	Detector Electronics Unit
BH	Black Hole	DM	Dark Matter
BHC	Black Hole Candidate	DM	Deployment Module
BI	Back-Illumination	DS-1	Deep Space 1
BOL	Beginning of Life	DS-CdTe	Double-sided Strip Cadmium Telluride
C&DH	Command and Data Handling	DSN	Deep-Space Network
CAD	Computer-Aided Design	DSSD	Double-sided Si Strip Detector
CAD	Cost Analysis Division	EA	Effective Area
CADR	Continuous Adiabatic Demagnetization Refrigerator	ECLAIRs	Not an acronym; Instrument on SVOM mission
CALDB	Calibration Database	EDU	Engineering Demonstration Unit
CASG	Cost Analysis Steering Group	EELV	Evolved Expendable Launch Vehicle
CAT	Critical Angle Transmission	EGSE	Electrical Ground Support Equipment
CBE	Current Best Estimate	ELV	Expendable Launch Vehicle
CCD	Charge-Coupled Device	EO-1	Earth Observing-1
CCE	Cryocooler Control Electronics	EOB	Extendable Optical Bench
CCHPs	Constant Conductance Heat Pipe	EOL	End of Life
		EOS	Earth Observing System
		EoS	Equation of State
		EPIC	European Photon Imaging Camera
		EPO	Education and Public Outreach
		EPS	Electrical and Power Subsystem
		ESA	European Space Agency

International X-ray Observatory (IXO)

ESLOC	Equivalent Software Lines Of Code	HXMM	Hard X-ray Mirror Module
ETU	Engineering Test Unit	HXT	Hard X-ray Telescope
EURECA	European Retrievable Carrier	HZ	Hydrazine
FCB	Feedback/Controller Box	I&T	Integration and Test
FEDS	Front End Data System	I/F	Interface
FEM	Finite Element Modeling	I/O	Input/Output
FIP	Fixed Instrument Platform	IASF	Istituto di Astrofisica Spaziale e Fisica Cosmica
FITS	Flexible Image Transport System	ICE	Independent Cost Estimate
FMA	Flight Mirror Assembly	IDL	Instrument Design Lab
FMS	Fixed Metering Structure	IGM	Intergalactic Medium
FOV	Field of View	IIRT	Integrated Independent Review Team
FPGA	Field Programmable Gate Array	IM	Instrument Manager
FRR	Flight Readiness Review	IM	Instrument Module
FSW	Flight Software	IMAGE	Imager for Magnetopause-to-Aurora Global Exploration
FTE	Full Time Equivalent	INAF	Istituto Nazionale di Astrofisica Nucleare
FTOOLS	FITS Tools	IP	Internet Protocol
FWC	Filter Wheel Control Electronics	IR	Infrared
FWHM	Full Width Half Maximum	ISAS	Institute of Space and Astronautical Sciences
FY	Fiscal Year	ISOC	IXO Science and Operations Center
GAS	Grating Assembly Structure	ISS	International Space Station
GEMS	Gravity and Extreme Magnetism SMEX	ITAR	International Traffic in Arms Regulations
GMSEC	GSFC Mission Services Evolution Center	ITOS	Integrated Test and Operations System
GN&C	Guidance, Navigation & Control	IXO	International X-ray Observatory
GNC	Guidance, Navigation & Control	JAXA	Japan Aerospace Exploration Agency
GOES	Geostationary Operational Environmental Satellites	JPL	Jet Propulsion Laboratory
GOES-R	Geostationary Operational Environmental Satellite-R Series	JT	Joule-Thomson
GOLD	Goddard Open Learning Design	JWST	James Webb Space Telescope
GOTS	Government Off-The-Shelf	KDP	Key Decision Point
GPD	Graphical Pilot Display	KSC	Kennedy Space Center
GPM	Global Precipitation Measurement mission	LL	Lincoln Laboratory
GR	General Relativity	LLNL	Lawrence Livermore National Laboratory
GS	Ground System	LM	Lockheed-Martin
GSE	Ground Support Equipment	LMXB	Low Mass X-ray Binary
GSFC	Goddard Space Flight Center	LRD	Launch Readiness Date
HEASARC	High Energy Astrophysics Science Archive Research Center	LRO	Lunar Reconnaissance Orbiter
HEFT	High Energy Focusing Telescope	LV	Launch Vehicle
HESSI	High Energy Solar Spectroscopic Imager	LVPC	Low Voltage Power Converter
HETG	High Energy Transmission Grating	MAR	Mission Assurance Requirements
HGA	High Gain Antenna	MCR	Mission Confirmation Review
HK	Housekeeping data	MDL	Mission Design Lab
HPD	Half Power Diameter	MDP	Minimum Detectable Polarization
HQ	Headquarters	MDR	Mission Definition Review
HST	Hubble Space Telescope	MDS	Mission Data System
HTRS	High Time Resolution Spectrometer	MEL	Master Equipment List
HUDF	Hubble Ultra-Deep Field	MEOP	Maximum Expected Operating Pressure
HV	High Voltage		
HXI	Hard X-ray Imager		

International X-ray Observatory (IXO)

MESSENGER	MErcury Surface, Space ENvironment, GEochemistry, and Ranging	PSE	Power Supply Electronics
MIP	Movable Instrument Platform	PSF	Point Spread Function
MIRI	Mid-InfraRed Instrument	PSR	Pre-Shipment Review
MIXS	Mercury Imaging X-ray Spectrometer	QA	Quality Assurance
MLI	Multi-Layer Insulation	QE	Quantum Efficiency
MM	Mass Memory	QSO	Quasi - stellar Objects
MMS	Magnetosphere Multi-Scale satellite constellation	RASS	ROSAT All-Sky Survey
MO	Mission Operations	RF	Radio Frequency
MO&DA	Mission Operations and Data Analysis	RFI	Request for Information
MOCM	Mission Operations Cost Model	RFP	Request for Proposals
MODA	Mission Operations & Data Analysis	RGS	Reflection Grating Spectrometer
MOR	Missions Operation Review	RIU	Remote Interface Units
MPE	Max-Planck-Institut für Extraterrestrische Physik	ROM	Rough Order of Magnitude
MS	Mission Simulation	ROSAT	Röntgensatellit - a German X-ray satellite telescope
MSFC	Marshall Space Flight Center	RVDT	Rotary Variable Differential Transformer
N/A	Not Available	RXTE	Rossi X-ray Timing Explorer
NAR	Non-Advocate Review	RY	Real Year
NASA	National Aeronautics and Space Administration	S/A	Solar Array
NEAR	Near Earth Asteroid Rendezvous	S/C	Spacecraft
NGST	Next Generation Space Telescope	S/N	Signal to Noise
NIST	National Institute of Standards and Technology	SAO	Smithsonian Astrophysical Observatory
NPOESS	National Polar-orbiting Operational Environmental Satellite System	SAX	Satellite per Astronomia X-ray
NRC	National Research Council	SBIL	Scanning Beam Interference
NS	Neutron Star	SCG	Study Coordination Group
NTO	Nitrogen tetroxide (or dinitrogen tetroxide), rocket fuel	SDD	Silicon Drift Diodes
OB	Optical Bench	SDO	Solar Dynamics Observatory
OGS	Objective Grating Spectrometer	SDS	Science Data System
OM	Observatory Manager	SDT	Science Definition Team
OM	Optics Module	SE	Systems Engineer
OP	Optical path	SEER-H	Software Estimation and Evaluation of Resources for Hardware
ORR	Operations Readiness Review	SIRU	Scalable Inertial Reference Unit
P	parabolic	SIRu	Spacecraft Intertial Reference unit
PA	Power Amplifier	SLOC	Software Line of Code
PA&E	Program Analysis and Evaluation	SM	Spacecraft Module
PBB	Pre-Amplifier Bias Box	SMEX	Small Explorer mission
PDD	Payload Definition Document	S&MA	Safety and Mission Assurance
PDR	Preliminary Design Review	SMBH	Super Massive Black Hole
PDU	Power Distribution Unit	SMEX	Small Explorer
PER	Pre-Environmental Review	SMILES	Superconducting Submillimeter-Wave Limb-Emission Sounder
PLF	Payload Fairing	SNR	Signal-to-Noise Ratio
PM	Project Manager	SOC	Science Operations Center
PPE	Pulse Processing Electronics	SOHO	Solar and Heliospheric Observatory
PRT	Positive Resistance Thermistors	SPO	Silicon Pore Optic
PRICE-H	Parametric Review of Information for Costing and Evaluation Hardware	SQUID	Superconducting Quantum Interference Device
		SR&T	Supporting Research and Technology
		SRR	Systems Requirements Review
		SRTMM	Shuttle Radar Topography Mapper
		ST	Star Tracker

STEREO	Solar Terrestrial Relations Observatory
SVOM	Space multi-band Variable Object Monitor
SWG	Science Working Group
SXS	Soft X-ray Spectrometer
SXT	Spectroscopy X-ray Telescope
TADS	Telescope Aspect Determination System
TB	Thermal Balance
TBD	To Be Determined
TBR	To Be Revised
TCP/IP	Transmission Control Protocol/ Internet Protocol
TDM	Time-Division-Multiplexing
TDRSS	Tracking and Data Relay Satellite System
TES	Transition Edge Sensor
TM	Telescope Module
TMCO	Technical, Management, Cost and Other
TOPEX	Topography Experiment for Ocean Circulation
TRACE	Transition Region and Coronal Explorer
TRL	Technology Readiness Level
TRMM	Tropical Rainfall Monitoring Mission
TT&C	Tracking, Telemetry and Command
TV	Thermal Vacuum
TWINS	Two Wide- Angle Imaging Neutral- Atom Spectrometers mission
TWG	Telescope Working Group
UV	Ultraviolet
V&V	Verification and Validation
VELA	VLSI ELectronic for Astronomy
VCHP	Variable Conductance Heat Pipe
WBS	Work Breakdown Structure
WFI	Wide Field Imager
WHIM	Warm-Hot Intergalactic Medium
WMAP	Wilkinson Microwave Anisotropy Probe
WP	White Paper
XEUS	X-ray Evolving Universe Spectroscopy
XGS	X-ray Grating Spectrometer
XIS	X-ray Imaging Spectrometer
XMM	X-ray Multi-Mirror Mission
XMS	X-ray Microcalorimeter Spectrometer
XPOL	X-ray Polarimeter
XQC	X-ray Quantum Calorimeter
XRБ	X-ray Binary
XRCF	X-Ray Calibration Facility
XRS	X-ray Spectrometer
XRT	X-ray Telescope
YTD	year-to-date