

Appendix B

SPACE GLOSSARY AND ACRONYMS

ω	Argument of Perigee
Ω	Ascending Node
Δv	delta-v

A

a	Semi-Major Axis
A/MWC	Alternate Missile Warning Center
AA	Attack Assessment
ABM	Anti-Ballistic Missile
ACC	Air Combat Command
ACMS	Alternate Master Control Station
ACS	Attitude Control Subsystem
ADRG	Arch Digitized Raster Graphics
ADSI	Air Defense Systems Integrator
AEPDS	Advanced Electronic Processing and Dissemination System
AFCC	Air Force Communications Command
AFM	Air Force Manual
AFSATCOM	AF Satellite Communications
AFSCN	Air Force Satellite Control Network
AFSPACE	Air Force Space Command
AFSPC	Air Force Space Command
AFSPC/CC	Commander, Air Force Space Command
AFSST	AF Space Support Team
AIRS	Advanced Inertial Reference Sphere
Al	Aluminum
ALCM	Air-Launched Cruise Missile
ALCOR	ARPA Lincoln C-Band Observable Radar
ALERT	Attack and Launch Early Reporting to Theater
ALTAIR	ARPA Long-Range Tracking and Identification Radar
AMCSS	AFSAT Modulation Compatibility Sub System
AMOS	ARPA Maui Optical Site
AOC	Aerospace Operations Center
AOC	Auxiliary Output Chip
APT	Automatic Picture Transmission
ARC	Advanced Research Center
ARPA	Advanced Research Projects Agency
ARSPACE	Army Space Command
ARSPACE FWD	Army Space Command Forward
ARSST	Army Space Support Team
ARTS	Automated Remote Tracking Station
A-S	Anti-Spoofing

ASARS-2	Advanced Synthetic Aperture Radar System-2
ASAT	Anti-Satellite
ASCC	Alternate Space Control Center
ASDP	Army Space Demonstration Program
ASEDP	Army Space Exploitation Demonstration Program
ASIS	Army Space Initiatives Study
ASPADOC	Alternate Space Defense Operations Center
ASPO	Army Space Program Office
ATACMS	Army Tactical Missile System
ATO	Air Tasking Order
ATV	Automated Transfer Vehicle
AU	Distance of Earth from the sun
AUTONAV	Autonomous Navigation
AVHRR	Advanced High Resolution Radiometer
AWACS	Airborne Warning and Control System
AWACS	Airborne Warning and Control System
AWN	Automated Weather Network
AZA	Auroral Zone Absorption

B

BIOT	British Indian Ocean Territory
BMD	Ballistic Missile Defense
BMEWS	Ballistic Missile Early Warning System
BOA	Battlefield Ordnance Awareness

C

c	Linear Eccentricity
C/A	Course Acquisition
C2	Command and Control
CACS	Command and Control Squadron
CACS	Command and Control Squadron
CALCM	Conventional Air Launched Cruise Missile
CANR	Canadian NORAD Region
CCD	Camouflage, Concealment and Deception
CCIS	Civil/Commercial Imagery System
CCS	Constellation Control Station
CCS	Constellation Control Station
CDF	Commercial Demonstration Flight
CEP	Circular Error Probability
CGS	CONUS Ground Station
CIC	Combat Intelligence Correlator
CIC	Combined Intelligence Center
CINC	Commander-in-Chief
CINC	Commander in Chief

CINC-NORAD	Commander-in-Chief CINC of NORAD
CIO	Central Imagery Office
CIR	Color Infrared
CIRA	Cospar International Reference Atmosphere
CM	Cruise Missile
CMAS	Cheyenne Mountain Air Station
CME	Coronal Mass Ejection
CMOC	Cheyenne Mountain Operations Center
CMR	Communication by Moon Relay
CNA	Computer Network Attack
CND	Computer Network Defense
CNO	Chief of Naval Operations
CO₂	Carbon Dioxide
COF	Columbus Orbital Facility
CONOPS	Concept of Operations
CONUS	Continental United States
COTS	Commercial-off-the-Shelf
CRT	Cathode-Ray Tube
CSEL	Combat Survivor/Evader Locator
CSIL	Commercial Satellite Imagery Library
CSPE	Communications Systems Planning Element

D

D	Distance
DAGR	Defense Advanced GPS Receiver
DAMA	Demand Assigned Multiple Access
DARO	Defense Airborne Reconnaissance Office
DARPA	Defense Advanced Research Projects Agency
dB	Decibels
DC	Direct Current
DCSOPS	Deputy Chief of Staff for Operations
DDC	Data Distribution Center
DEM	Digital Elevation Model
DEW	Distant Early Warning
DGPS	Differential GPS
DIA	Defense Intelligence Agency
DISA	Defense Information Systems Agency
DISN	Defense Information Systems Network
DMA	Defense Mapping Agency
DMS	Defense Message System
DMSP	Defense Meteorological Satellite Program
DOD	Department of Defense
DR	Detection Radar
DRC	Data Reduction Center
DSCS	Defense Satellite Communication System

DSCSOC	DSCS Operations Center
DSN	Defense Switched Network
DSP	Defense Support Program
DSTS	Deep Space Tracking System
DTED	Digital Terrain Elevation Data
DTRA	Defense Threat Reduction Agency
DTS	Diplomatic Telecommunications Service
DWSW	Deployable Weather Satellite Workstation

E

e	Eccentricity
EAC	Echelon Above Corps
EAM	Emergency Action Message
EC	Earth Coverage
EDGE	Exploitation of DGPS for Guidance Enhancement
EELV	Evolved Expendable Launch Vehicle
EGS	European Ground Station
EHF	Extremely High Frequency
EIRP	Effective Isotropic Radiated Power
ELSET	Element Set
EM	Electromagnetic
EMD	Engineering and Manufacturing Development
EMP	Electromagnetic Pulse
ENEC	Extendable Nozzle Exit Cone
EOSAT	Earth Observation Satellite
EPDS	Electronic Processing and Dissemination System
ERS-1	European Remote Sensing Satellite
ERTS-A	Earth Resources Technology Satellite-A
ESA	European Space Agency
ESSA	Environmental Science Service Administration
ET	External Tank
ET	Extra-Terrestrial
ETM+	Enhanced Thematic Mapper Plus
ETRAC	Enhanced Tactical Radar Correlator
ETUT	Enhanced Tactical User Terminal
EUV	Extreme Ultraviolet
EVA	Extravehicular Activity

F

FAST	Forward Area Support Terminal
FAST	Forward Space Support in Theater
FBM	Fleet Ballistic Missile
FDMA	Frequency Division Multiple Access
FEP	FLTSAT EHF Package

FLTSAT	Fleet Satellite
FLTSATCOM	Fleet Satellite Communications
FNMOC	Fleet Numerical Meteorological and Oceanographic Center
FOSIC	Fleet Ocean Surveillance Information Center
FOV	Field-Of-View
FSSC	Fleet Surveillance Support Command
FSU	Former Soviet Union

G

GATS	B GPS-Aided Targeting System
GBS	Global Broadcast Service
GCCS	Global Command and Control System
GCN	Ground Communications Network
GCNU	Ground Communications Network Upgrade
GCSS	Global Combat Support System
GDA	Gimbaleed Dish Antenna
GEO	Geosynchronous Earth Orbit
GEODSS	Ground-based Electro-Optical Deep Space Surveillance
GMF	Ground Mobile Forces
GMS	Geostationary Meteorological Satellite
GOES	Geostationary Operational Environmental Satellite
GOTS	Government-off-the Shelf
GPS	Global Positioning System
GPS MCS	GPS Master Control Station
GSD	Ground Sampling Distance
GSSC	Global SATCOM Support Center
GSUs	Geographically Separated Unit
GTO	Geosynchronous Transfer Orbit

H

H₂O	Hydrogen Dioxide (Water)
HEMP	High-Altitude Electromagnetic Pulse
HEO	Highly Elliptical Orbit
HELSTF	High Energy Laser System Test Facility
HF	High Frequency
HRPT	High Resolution Picture Transmission
HRV	High Resolution Visible
HSD	High Speed Data
HSI	Hyperspectral Imagery
HSMP	High Speed Message Processor
HSS	High Speed Stream
HST	Hubble Space Telescope

I

ICBM Inter-Continental Ballistic Missile
ISR Intelligence, Reconnaissance and Surveillance
ITW Integrated Tactical Warning
ITW/AA Integrated Tactical Warning and Attack Assessment
IUS Inertial Upper Stage

i Inclination
ICBM Intercontinental Ballistic Missile
ICDB Integrated Communications Database
IDSCP Initial Defense Communications Satellite Program
IFOV Instantaneous Field of View
IG Intelligence Group
IGMDP Integrated Guided Missile Development Program
IGY International Geophysical Year
IMF Interplanetary Magnetic Field
INMARSAT International Maritime Satellite
INS Inertial Navigation System
INSAT Indian National Satellite
Intelsat International Telecommunications Satellite
IOC Initial Operating Capability
IPL Integrated Priority List
IPO Integrated Program Office
IR Infrared
IRBM Intermediate Range Ballistic Missile
IRS Indian Remote Sensing Satellite
 I_{sp} Specific Impulse
ISS International Space Station
ITAC Intelligence and Threat Analysis Center
ITOS Improved TIROS Operational Satellite
IUS Inertial Upper Stage

J

JASSM Joint Air-to-Surface Standoff Missile
JBS Joint Broadcast Service
JCS Joint Chiefs of Staff
JDAM Joint Direct Attack Munition
JEM Japanese Experiment Module
JIOC Joint Information Operations Center
JITI Joint In-Theater Injection
JNTF Joint National Test Facility
JRSC Jam Resistant Secure Communications
JSCP Joint Strategic Capabilities Plan
JSIPS Joint Services Imagery Processing System
JSOW Joint Stand Off Weapon

JSTARS/GSM	Joint Surveillance Target Attack Radar System/Ground Support Module
JTAGS	Joint Tactical Ground Station
JTF-CND	Joint Task Force - Computer Network Defense
JTFST	Joint Task Force Satellite Terminal

K

K	Kelvin
KE	Kinetic Energy
km	Kilometer
kW	Kilowatt
kW/s	Kilowatts per Steradian

L

LAAS	Local Area Augmentation System
LASS	Low-Altitude Space Surveillance System
LCC	Launch Control Center
LDR	Low Data Rate
LEGG	Launch Ejection Gas Generator
LEO	Low Earth Orbit
LF	Launch Facility
LF	Low Frequency
LH	Liquid Hydrogen
LITVC	Liquid Injection Thrust Vector Control
LLV	Lockheed Launch Vehicle
LMLV	Lockheed-Martin Launch Vehicle
LOC	Line of Communication
LOX	Liquid Oxygen
LPD	Low Probability of Detection
LPI	Low Probability of Intercept
LPS	Large Processing Station
LPSU	Large Processing Station Upgrade
LS	Light Smooth
LSD	Low Speed Data
LSMP	Low Speed Message Processor
LSTT	Light-Weight STT
LUF	Lowest Useable Frequency
LWIR	Long Wave Infra-red

M

m	Mass
MAGR	Miniaturized Aircraft GPS Receiver
MAJCOM	Major Command
MBA	Multiple Beam Antenna

MC&G	Mapping, Charting and Geodesy
MCC	Mission Control Center
MCS	Master Control Station
MCS	Mission Control Station
MDM	Mission Data Message
MDR	Medium Data Rate
MECA	Missile Electronics and Computer Assembly
MGS	Missile Guidance Set
MGS	Mobile Ground System
MI	Military Intelligence
MIES	Modernized Imagery Exploitation System
MILSATCOM	Military Satellite Communications
MIRV	Multiple Independently Targetable Reentry Vehicle
MIT	Massachusetts Institute of Technology
MITT	Mobile Integrated Tactical Terminal
MLRS	Multiple Launch Rocket System
MOC	Milstar Operations Center
MOL	Manned Orbiting Laboratory
MOS/PIM	Multiple Orbit Satellite/Program Improvement Module
MOTIF	Maui Optical Tracking and Identification Facility
MPSOC	Multi-Purpose Satellite Operations Center
M_R	Mass Ratio
MRBM	Medium Range Ballistic Missile
MSF	Milstar Support Facility
MSI	Multispectral Imagery
MSIP	MSI Processor
MSS	Mobile Service System
MSS	Multispectral Scanner
MSTS	Multi-Source Tactical System
MT	Megaton
MUF	Maximum Useable Frequency
MWIR	Medium Wave Infrared

N

NAVSPACECOM	Naval Space Command
NAVSPASUR	Naval Space Surveillance Center
NCA	National Command Authority
NIPC	National Infrastructure Protection Center
NOAA	National Oceanic Atmospheric Administration
NORAD	North American Aerospace Defense
NRO	National Reconnaissance Office
NSWCDD	Naval Surface Warfare Center, Dahlgren Division
NWS	North Warning System
NACA	National Advisory Committee on Aeronautics

NASA	National Aeronautics and Space Administration
NASA	National Aeronautics and Space Administration
NATO	North Atlantic Treaty Organization
NAVASTROGRU	Navy Astronautics Group
NAVSOC	Naval Satellite Operations Center
NAVSPACE	Naval Space Command
NAVSPACECOM	Naval Space Command
NAVSPASUR	Naval Space Surveillance
NAVSPOC	Naval Space Operations Center
NAVSTAR GPS	Navigation Satellite Timing and Ranging Global Positioning System
NAVWAR	Navigation Warfare
NCA	National Command Authority
NDI	Non-Developmental Item
Ni-Cad	Nickel-Cadmium
Ni-H₂	Nickel-Hydrogen
NIMA	National Imagery and Mapping Agency
NIR	Near Infrared
NITF	National Imagery Transmission Format
NM	Nautical Mile
NMCC	National Military Command Center
NNSS	Navy Navigation Satellite
NOAA	National Oceanic and Atmospheric Administration
NORAD	North American Aerospace Defense Command
NPIC	National Photographic Interpretation Center
NPOESS	National Polar Orbiting Operational Environmental Satellite System
NRL	Naval Research Laboratory
NRO	National Reconnaissance Office
NSD	National Security Directive
NSDD	National Security Decision Directive
NSPC	National Space Council
NSPD	National Space Policy Directive
NSST	Naval Space Support Team
NSTC	National Science and Technology Council
NTR	Nuclear Thermal Rocket
NUDET	Nuclear Detection

O

O	Oxygen molecule
O&M	Operations and Maintenance
O₂	Oxygen (gas)
OC	Operations Center
OCC	Operations Control Center
OGS	Overseas Ground Station
OLS	Operational Linescan System

OMS	Orbital Maneuvering System
OPCON	Operational Control
OPSEC	Operations Security
OSC	Orbital Sciences Corporation
OTH-B	Over-the-Horizon Backscatter
OUSDA&T	Under Secretary of Defense for Acquisition and Technology

P

PAR	Phased Array Radar
PARCS	Perimeter Acquisition Radar Attack Characterization System
PBCS	Post Boost Control System
PBV	Post Boost Vehicle
PCA	Polar Cap Absorption
PCM	Phase-Change Material
P-code	precision code
PD	Presidential Directive
PDD	Presidential Decision Directive
PE	Potential Energy
PEC	Photoelectric Cell
PLGR	Precision Lightweight GPS Receiver
PMT	Photo Multiplier Tube
POES	Polar Orbiting Environmental Satellite
PPS	Precise Positioning Service
PPSE	PAVE PAWS South East
PPSW	PAVE PAWS South West
PR	Production Requirement
PRC	Peoples Republic of China
PRD	Presidential Review Directive
psi	per square inch
PSRE	Propulsion System Rocket Engine
PUP	Peripheral Upgrade Program

Q

QDR	Quadrennial Defense Review
QPSK	Quadra Phase Shift-Keyed

R

R&D	Research and Development
RAF	Royal Air Force
RAOC	Region Air Operations Center
RCMP	Royal Canadian Mounted Police
RDS	Real-time Data Smooth
REACT	Rapid Execution and Combat Targeting

RFI	Radio Frequency Interference
RGS	Relay Ground Stations
RISTA	Reconnaissance, Intelligence, Surveillance, and Target Acquisition
RMS	Remote Manipulator System
ROCC	Region Operations Control Center
ROTHR	Relocatable Over-the-Horizon Radar
ROW	Rest-of-World
RSC	Reaction Control System
RSSC	Regional SATCOM Support Center
RTC	Real-Time Command
RTD	Real-time Data Fine
RTG	Radioisotope Thermoelectric Generator

S

S&T	Science and Technology
SA	Selective Availability
SAA	Satellite Access Authorization
SAASM	Selective Availability Anti-Spoofing Module
SAGE	Semi-Automatic Ground Environment
SAM	Surface-to-Air Missile
SAMT	state-of-the-art Medium Terminal
SAOC	Sector Air Operation Center
SAR	Satellite Access Request
SAR	Search and Rescue
SAR	Support Assistance Request
SAR	Synthetic Aperture Radar
SATCOM	Satellite Communications
SATCON	Satellite Control
SATRAN	Satellite Reconnaissance Advance Notice
SBIRS	Space Based Infrared System
SCC	Space Control Center
SCG	Security Classification Guide
SCI	Sensitive Compartmented Information
SCIS	Survivable Communications Integration System
SCT	Single Channel Transponder
SDIO	Strategic Defense Initiative Organization
SDS	Satellite Data System
SED	Sensor Evolutionary Development
SEON	Solar Electro-Optical Network
SEP	Spherical Error Probable
SEU	Single Event Upset
SG	Space Group
SHF	Super High Frequency
SID	Sudden Ionospheric Disturbance
SIDEARM	Secondary Imagery Dissemination Environment and Resource Manager

SIGINT	Signals Intelligence
SINCGARS	Single Channel Ground and Air Radio System
SIOP	Single Integrated Operations Plan
SLBM	Sea-Launched Ballistic Missile
SLCM	Sea-Launched Cruise Missile
SLCM	Submarine-Launched Cruise Missile
SLEP	Service Life Enhancement Program
SLGR	Small Lightweight GPS Receiver
SLS	Space Launch Squadron
SMABC	Space and Missile Applications Basic Course
SMDBL	SMDC Battle Lab
SMDC	Space and Missile Defense Command
SOC	Satellite Operations Center
SOC	Space Operations Center
SOCC	Satellite Operations Control Center
SOH	State of Health
SOI	Space Object Identification
SOM	Satellite Operations Manager
SOPS	Satellite Operations Squadron
SOPS	Space Operations Squadron
SPAWAR	Space and Naval Warfare
SPC	Stored Programs Command
SPIN	SATCOM Planning Information Network
SPO	Special Projects Office
SPOT	Satellite Pour L'Observation de la Terre
SPS	Simplified Processing Station
SPS	Standard Positioning Service
SPSS	Space Surveillance Squadron
SRBM	Short Range Ballistic Missile
SRM	Solid-Rocket Motor
SRMU	Solid Rocket Motor Upgrade
SRS	Satellite Readout Station
SRSU	SRS Upgrade
SSB	Solar Sector Boundary
SSBN	Nuclear Capable Submarine
SSC	Space Surveillance Center
SSDC	Space and Strategic Defense Command
SSE	SATCOM System Expert
SSM/I	Special Sensor Microwave Imager
SSMA	Spread Spectrum Multiple Access
SSN	Space Surveillance Network
START	Strategic Arms Reduction Treaty
STO	Space Tasking Order
STS	Space Transport System
STS	Space Transportation System
STT	Small Tactical Terminal

SWC	Space Warfare Center
SWF	Short Wave Fade
SWIR	Shortwave Infrared
SWO	Space Weather Officer
SWS	Space Warning Squadron
SWS	Strategic Weapon System

T

T	Thrust
T/R	Transmit/Receive
TACDAR	Tactical Detection and Reporting
TACSAT	Tactical Satellite
TACSATCOM	Tactical Satellite Communications
TACTERM	Tactical Terminal
TAOS	Technology for Autonomous Operational Survivability
TASR	Tactical Automated Situational Receiver
TAT-1	Transatlantic Telephone (first cable)
TBM	Tactical Ballistic Missile
TCF	Technical Control Facility
TDDS	Tactical Data Dissemination System
TEC	Topographic Engineering Center
TEC	Total Electron Content
TEL	Transporter-Erector-Launcher
TENCAP	Tactical Exploitation of National Capabilities
TERCAT	Terrain Categorization
TERCOM	Terrain Contour Matching
TES	Theater Event System
TIBS	Tactical Information Broadcast Service
TIROS	Television and Infrared Operational Satellite
TLAM	Tomahawk Land Attack Missile
TM	Thematic Mapper
TMD	Theater Missile Defense
TOMS-EP	Total Ozone Mapping Spectrometer-Earth Probe
TOS	TIROS Operational System
TR	Tracking Radar
TRADOC	Training and Doctrine Command
TS	Thermal Smooth
TSS	Tri-band SATCOM Sub-system
TT&C	Telemetry, Tracking and Commanding
TVC	Thrust Vector Control

U

UCP	Unified Command Plan
UDMH	Unsymmetrical Dimethylhydrazine
UE	User Equipment

UHF F/O	UHF Follow-On
UHF	Ultra-High Frequency
UN	United Nations
USA	US Army
USAF	US Air Force
USCENTCOM	US Central Command
USCINCSpace	CINC, United States Space Command
USMC	US Marine Corps
USSPACECOM	US Space Command
USSTRATCOM	US Strategic Command
UTC	Coordinated Universal Time
UV	Ultraviolet

V

VHF	Very High Frequency
VLF	Very-Low Frequency

W

WAAS	Wide Area Augmentation System
WAGE	Wide Area GPS Enhancement
WEFAX	Weather Facsimile
WSMR	White Sands Missile Range

TOC