



## Abbreviations and Acronyms

### A

A	ampere
A/D	analog to digital
AAM	apogee adjust maneuver
ADC	analog to digital converter
ADM	attitude data multiplexer
ADS	angular displacement sensor
AEI	average error integrator
Ah	ampere-hour
AMF	apogee maneuver firing
AOC	attitude and orbit control
AOCE	attitude and orbit control electronics
AOCS	attitude and orbit control subsystem
AOS	acquisition of signal

### B

b/s	bits/second
BB	blackbody
B/S	beam splitter
BECO	booster engine cutoff

### C

C	Celsius
CASS	coarse analog sun sensor
CASSE	CASS electronics
CCD	charge coupled device
CCSDS	Consultative Committee for Space Data Systems
CDA	command and data acquisition
CEI	coherent error integrator
Ch	channel
CME	Coronal Mass Ejection
cm	centimeter
CONUS	Continental United States
C&DMS	Command & Data Management System

### D

D/A	digital to analog
dB	decibel
dc	direct current
DCP	data collection platform
DCPI	data collection platform interrogate
DCPR	data collection platform report

Revision 1

DCS	data collection system
DID	dynamic interaction diagnostic
DIRA	digital integrating rate assembly
DPU	data processing unit
DSN	deep space network
DSS	digital sun sensor

### E

EED	electroexplosive device
EIRP	effective isotropic radiated power
ELT	emergency locator transmitter
EOC	edge of coverage
EPIRB	emergency position indicating radio beacon
EPS	energetic particles sensor
ES	earth sensor
EST	Exposure Setting Table
E/W	east/west
EWSK	east/west stationkeeping

### F

FB	Federal Building
FET	Field Effect Transistor
FOT	Fiber Optics Taper
FOV	field of view

### G

g	gram
g	gravity
GFE	Government-furnished equipment
GFRP	graphite-fiber-reinforced plastic
GIMTACS	GOES I-M telemetry and command system
GMS	Geostationary Meteorological Satellite (Japan)
GOES	Geostationary Operational Environmental Satellite
G/T	gain-to-noise temperature ratio, dB/K
GVAR	GOES variable data format

### H

HASS	High Accuracy Sun Sensor
He	helium
HEPAD	high energy proton and alpha particle detector



HgCdTe mercury cadmium telluride  
(mercadtelluride)  
hr hour  
HVPS High Voltage Power Supply  
Hz hertz

**I**

IF intermediate frequency  
ICT Imaging Control Table  
IFC in-flight calibration  
IGFOV instantaneous geometric field  
of view  
IMC image motion compensation  
INR image navigation and registration  
InSb indium antimonide  
IOS Indian Ocean Station  
IR infrared  
ISS interrupt safety system

**K**

K degrees kelvin  
kb/s kilobits per second  
keV kiloelectronvolt  
kHz kilohertz  
km kilometer

**L**

L liter  
L/O lift-off  
LSTP local solar time at perigee  
LW longwave

**M**

m meter  
Mb/s megabits per second  
MCP Micro Channel Plate  
MDL multiuse data link  
MECO main engine cutoff  
MES main engine start  
MeV megaelectronvolt  
MHz megahertz  
min minute  
MLI multilayer insulation  
mm millimeter  
MMC mirror motion compensation  
MMH monomethyl hydrazine  
ms multi second  
MTF Modulation Transfer Function  
MUX multiplexer  
MW midwave  
MW momentum wheel

**N**

N newton, north  
NASA National Aeronautics and Space  
Administration  
NEΔT noise equivalent change in  
temperature  
NESDIS National Environmental Satellite  
Data and Information Service  
NEΔN noise equivalent radiance  
difference  
NH Northern Hemisphere  
NLUT normalization look-up table  
NOAA National Oceanic and  
Atmospheric Administration  
NRZ Non-return to zero  
N/S north/south  
NSSK north/south stationkeeping  
nT nanoTesla  
NWS National Weather Service  
N·m·s newton-meter-second  
N<sub>2</sub>O<sub>4</sub> nitrogen tetroxide

**O**

OATS orbit and attitude tracking system  
ODAPS OGE data acquisition and  
patching subsystem  
OGE operations ground equipment  
OIS OGE input simulator  
OMUX output multiplexer  
OSR optical solar reflector

**P**

PCM pulse code modulation  
PCU power control unit  
PDR processed data relay  
PM product monitor  
PMD propellant management device  
PMT photomultiplier tube  
PT Parameter Table

**Q**

q dynamic pressure

**R**

rad radians  
RAM Random Access Memory  
RF radio frequency  
RFI radio frequency interference  
RHC right hand circular

RMS	root mean square
ROM	Read Only Memory
RW	reaction wheel

**S**

s	second
SADA	solar array drive assembly
SADE	solar array drive electronics
SAR	search and rescue
SARSAT	search and rescue satellite-aided tracking
SAS	sun analog sensor
SATTDE	solar array trim tab drive electronics
SAU	signal analyzer unit
S/C	spacecraft
SD	sensor data
SECO	sustainer engine cutoff
SEC	Space Environment Center
SEM	space environment monitor
SEU	Single Event Upset
SESC	Space Environment Services Center
SFSS	satellite field service station
SH	Southern Hemisphere
SHM	safe hold mode
SHME	safe hold mode electronics
SK	stationkeeping
SMS	Synchronous Meteorological Satellite
S/N	signal-to-noise ratio
SOCC	satellite operations control center
SPS	sensor processing system
sr	steradian
SSA	sequential shunt assembly
STDN	satellite tracking data network
SW	shortwave
SXI	Solar X-Ray Imager

**T**

T&C	telemetry and command
TACTS	telemetry and command transmission system
TC&R	telemetry, command and ranging
TLM	telemetry
TMF	trim maneuver firing

**U**

UHF	ultra high frequency
UTC	universal time coordinated
UV	Ultraviolet

**V**

v	velocity
V	volt
VAS	visible and infrared spin scan radiometer atmospheric sounder
VCDE	valve coil drive electronics
VECO	vernier engine cutoff
VIE	VAS interface electronics

**W**

W	west, watts
WDE	wheel drive electronics
WEFAX	weather facsimile

**X**

XRP	X-ray positioner
XRPE	X-ray positioner electronics
XRS	X-ray sensor

**Symbols**

Å	angstrom
Δ	difference
μ	micro (10 <sup>-6</sup> )
Ω	ohm