

## PART 15. ACRONYMS AND ABBREVIATIONS

AC	Atmospheric Corrector
ACCN	ALI Calibration Control Node
ACDS	Attitude Control and Data System
ACCS	Atmospheric Corrector Calibration System
ACDS	Attitude Control and Data System
ACE	Attitude Control Electronics
ACORN	Atmospheric CORrection Now
ACS	Attitude Control System
A/D	Analog-to-Digital
ADT	Architecture Design Team
AGC	Automatic Gain Control
AgTe	Silver Teflon
Ah	Ampere-hour(s)
AIG	Analytical Imaging and Geophysics
AI	Artificial Intelligence
ALI	Advanced Land Imager
ALICE	ALI Control Electronics
Am	Ampere-meter(s)
AMO	Air-Mass-Zero
ANPP	Aboveground Net Primary Productivity
ARM	Atmospheric Radiation Measurement
ASD	Analytical Spectral Devices
ASIC	Application-Specific Integrated Circuit
ASIST	Advanced Spacecraft Integration and Systems Test
ASM	Attached Sync Marker
ASPEN	Automated Scheduling and Planning Environment
AST	Autonomous Star Tracker
ASTER	Advanced Spaceborne Thermal Emission and Reflectance Radiometer
ATREM	Atmospheric REMoval
ATS	Absolute Time Sequence
ATSR	Along Track Scanning Radiometer
AVHRR	Advanced Very Resolution Radiometer
AVIRIS	Airborne Visible and Infrared Imaging Spectrometer
BEF	Bartlett Experiment Forest
BER	Bit Error Rate
BOL	Beginning of Life
BPC	Bayesian Pairwise Classifier
BRDF	Bidirectional Reflectance Distribution Function
BSFR	Back Surface Field and Reflector
C	Celsius
CADU	Channel Access Data Unit
CART	Cloud and Radiation Testbeds
CASI	Compact Airborne Spectrographic Imager
CASPER	Continuous Activity Scheduling Planning Execution and Replanning
C-CAP	Coastal Change Analysis Program

CCD	Charge Coupled Device
C-C	Carbon-Carbon
CCR	Carbon-Carbon Radiator
CCSDS	Consultative Committee for Space Data Systems
C&DH	Command and Data Handling
CDOM	Colored Dissolved Organic Matter
cFE	Core Flight Executive
CFI	Continuous Forest Inventory
CIA	Coleambally Irrigation Area
CIGS	Copper Indium Gallium Diselenide
CIR	Color-Infrared
C/N	Carrier-to-Noise
COBE	Cosmic Background Explorer
CPU	Central Processing Unit
CPT	Comprehensive Performance Test
CRAP	Calibration Reduction Accuracy Problems
CRC	Cyclic-Redundancy Check
CSOC	Consolidated Space Operations Contract
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CSR	Center for Space Research
CSRP	Carbon-Carbon Spacecraft Radiator Partnership
CTE	Coefficient of Thermal Expansion
CuInSe <sub>2</sub>	Copper Indium Diselenide
CIS	Copper Indium Diselenide
CVI	Chemical Vapor Infiltration
dB	Decibel
dBW	Decibel-Watts
dBm	Decibel-Milliwatts
DCE	Data Collection Event
DEM	Digital Elevation Model
DET	Direct Energy Transfer
DFA	Discriminant Function Analysis
DJ GaAs	Dual Junction Gallium Arsenide
DLL	Dynamic Link Libraries
DLT	Digital Linear Tape
DN	Digital Number
DPF	Data Processing Facility
DRAM	Dynamic Random Access Memory
DSN	Deep Space Network
ECU	Electronic Control Unit
EDAC	Error Detection and Correction
EDOS	Earth Observing System Data Operations System
EDU	Engineering Development Unit
EEPROM	Electrically Erasable Programmable Read Only Memory
EFF	Enhanced Formation Flying
EFFORT	Empirical Flat Field Optimal Reflectance Transformation
EFL	Effective Focal Length
EGSE	Electrical Ground Support Equipment
EIRP	Effective Isotropic Radiated Power

EIRR	External Independent Readiness Review
EMI/EMC	Electromagnetic Interference/ Electromagnetic Compatibility
EO-1	Earth Observing-1
EOCAP	Earth Observations Commercial Applications Program
EOL	End of Life
EOS	Earth Observing System
EPOS	Earth Phenomena Observing System
EROS	Earth Resources Observation and Science
ESDIS	Earth Science Data and Information System
ESE	Earth Science Enterprise
ESF	Edge Spread Function
ESMO	Earth Science Mission Operations
ESN	Essential Services Node
ESTO	Earth-Sun Systems Technology Office
ETM+	Enhanced Thematic Mapper
EVEOSD	Evaluation and Validation of EO-1 for Sustainable Development
FDC	Failure Detection & Correction
FLAASH	Fast Line-of-sight Atmospheric Analysis of Spectral Hypercubes
FMEA	Failure Mode and Effects Analysis
FOM	Figure of Merit
FOT	Flight Operations Team
FOV	Field of View
FPA	Focal Plane Array, Assembly
FPE	Focal Plane Electronics
FPGA	Field Programmable Gate Array
FWHM	Full Width Half Maximum
GaAs/Ge	Gallium Arsenide on Germanium
Gbit	Gigabit
GC	Green Cover
GCP	Ground Control Point
GER	Geophysical and Environment Research Corp.
GS	Goddard Ground Station
GIS	Grating Image Spectrometer
GIS	Geographic Information System
GMM	Geometric Math Model
GMSEC	GSFC Mission Services Evolution Center
GMT	Greenwich Mean Time
GN	Ground Network
GN&C	Guidance Navigation & Control
GPIB	General Purpose Interface Bus
GPS	Global Positioning System
GRC	Glenn Research Center
GSE	Ground Support Equipment
GSFC	Goddard Space Flight Center
HATCH	High Accuracy ATmospheric Correction
HDF	Hierarchical Data Format
HgCdTe	Mercury Cadmium Telluride
HK	Housekeeping

HOORC	Harry Oppenheimer Okavango Research Center
HOP	High Output Paraffin
HOPA	High Output Paraffin Actuator
HS	Hyperspectral
Hz	Hertz
I	Measured Reflected Intensity
ICD	Interface Control Document
IDL	Interactive Data Language
IF	Intermediate Frequency
IFOV	Instantaneous Field of View
IG	Inverted-Gaussian
ILS	Integrated Logistics Support
InGaAs	Indium Gallium Arsenide
InP	Indium Phosphide
I/O	Input/Output
IPDT	Integrated Product Development Team
IR	Infrared
ISS	International Space Station
I&T	Integration and Test
J	Joule
JAN	JPL Autonomous Navigation
JPL	Jet Propulsion Laboratory
K	Kelvin
krad (Si)	Radiation Dose - kilo-rads in Silicon
L2	Livingstone 2
LAC	Leaf Area Index
LDCM	Landsat Data Continuity Mission
LED	Light Emitting Diode
LEISA/AC	Linear Etalon Imaging Spectral Array/Atmospheric Corrector
LFSA	Lightweight Flexible Solar Array
LHC	Left-hand Circular
LNA	Low-Noise Amplifier
LOS	Lines of Sight
LO	Local Oscillator
LPT	Limited Performance Test
LSF	Line Spread Function
LUPI	Laser Unequal Path Interferometer
LUT	Look-up Table
LVE	Linear Variable Etalon LPT
LXR	Landsat Transfer Radiometer
MAC	Maricopa Agricultural Center
Mbits/s	Megabits per second
Mbps	Millibits per second
MCM	Multi-Chip Module

MEOP	Mean Effective Operating Pressure
MFR	Multi-Frequency Shadow-Band Radiometer
MHz	Megahertz
MIL-STD	Military Standard
MIT	Massachusetts Institute of Technology
MIVIS	Multispectral Infrared Visible Imaging Spectrometer
MLC	Maximum Likelihood Classification
MLI	Multi-Layer Insulation
MLT	Mean Local Time
MMIC	Monolithic Microwave Integrated Circuit
MNF	Maximum Noise Fraction
MODIS	Moderate Resolution Imaging Spectroradiometer
MOC	Mission Operations Center
mrad	milliradian
MS	Multispectral
MSSP	Medium Speed Serial Port
MSR	Modified Simple Ratio
MTB	Magnetic Torquer Bar
MTF	Modulation Transfer Function
MTMF	Mixture Tuned Matched Filter
N	Nitrogen
N <sub>2</sub>	Nitrogen
NDVI	Normalized Difference Vegetation Index
NDWI	Normalized Difference Water Index
NF	Near Field
NGST	Next Generation Space Telescope
NIR	Near Infrared
NIST	National Institute of Standards and Technology
NLI	Non-Linear Vegetation Index
nm	nanometer
Nm	Newton-meter(s)
NMP	New Millennium Program
NPP	National Polar-orbiting Operational Environmental Satellite System Preparatory Project
NPV	Non-Photosynthetic Vegetation
NRA	NASA Research Announcement
NRZ	Non-Return to Zero
NRZ-L	Non-Return to Zero - L
NRZ-M	Non-Return to Zero - M
NSI	Near Field Systems, Inc.
OAP	Orbit Average Power
OLI	Operational Land Imager
OTF	Optical Transfer Function
OVP	Over Voltage Protection
PAA	Phased Array Antenna
PAE	Power Added Efficiency
PAM	Performance Assessment Machine
Pan	Panchromatic
PCA	Principal Components Analysis

PLS	Partial Least Squares
PM	Phase Modulate
PN	Pseudo-Random Noise
PPI	Pixel Purity Index
PPT	Pulsed Plasma Thruster
PRF	Pseudo-Random Fluctuation
PROM	Programmable Read Only Memory
PRT	Platinum Resistance Temperature
PSE	Power Supply Electronics
PSF	Point Spread Function
PSK	Phase Shift Key
PTF	Phase Transfer Function
PV	Photovoltaic
PV	Photosynthetic Vegetation
PVI	Perpendicular Vegetation Index
PWB	Printed Wiring Board
Q	Quadrature
QPSK	Quadrature Phase Shift Key
R	Reflectance Spectra
RCS	Reaction Control System
RDVI	Renormalized Difference Vegetation Index
REP	Red Edge Position
RF	Radio Frequency
RFM	Rational Function Model
RGA	Residual Gas Analyzer
RGB	Red/Green/Blue
RMS	Root Mean Square
RMSE	Root Mean Square Error
ROI	Region of Interest
ROIC	Readout Integrated Circuit
ROLO	Robotic Lunar Observatory
rpm	revolutions per minute
RSN	Remote Services Node
RT	Remote Terminal
RTS	Real-Time Sequencer
RWA	Reaction Wheel Assembly
RWP	Red Well Position
SAM	Spectral Angle Mapper
SAVI	Soil Adjusted Vegetation Index
SBRS	Santa Barbara Remote Sensing (Raytheon SBRS)
SCA	Sensor Chip Assembly
SCR	Silicon-Controlled Rectifier
SDO	Solar Dynamics Observatory SEL
SeaWiFS	Sea-viewing Wide Field-of-view Sensor
SEL	Single-Event Latchup
Si	Silicon
SiC	Silicon Carbide

SMA	Spectral Mixture Analysis
SMA	Shape Memory Alloys
SNiCd	Super Nickel Cadmium
SNR	Signal-to-Noise Ratio
SODA	Space Operations Directive Agreement
SOTA	Special Operations Test Area
SPOT	Systeme Pour L'Observation de la Terre
SR	Simple Ratio
SRTM	Shuttle Radar Topography Mission
SRVI	Simple-Ratio Vegetation
SSDIF	Spacecraft Systems Development and Integration Facility
SSPA	Solid-State Power Amplifier
STDN	Space Tracking and Data Network
STF	Spatial Transfer Function
STM	Structural Thermal Model
STOL	Standard Test Operating Language
SUG	Spacecraft User's Guide
SVF	Science Validation Facility
SVT	Science Validation Team
SWG	Science Working Group
SWIR	Shortwave Infrared
TAM	Three Axis Magnetometer
TCS	Thermal Control System
TDRSS	Tracking and Data Relay Satellite System
TEC	Thermal Electric Cooler
TID	Total Ionizing Dose
TIS	Total Integrated Scatter
TMM	Top of Atmosphere
TRMM	Tropical Rainfall Measuring Mission
TSAVI	Transformed Soil Adjusted Vegetation Index
TSM	Telemetry and Statistics Monitor
USGS	U.S. Geological Survey
UTC	Coordinated Universal Time
UV	Ultraviolet
VCDU	Virtual Channel Data Unit
VDC	Volts-DC
VI	Vegetation Indices
VNIR	Visible and Near-Infrared
W	Watts
WAIM	Wide-Angle Impedance Matching
WARP	Wideband Advanced Recorder Processor
WDVI	Weighted Difference Vegetation Index
WFE	Wave Front Error
WFOV	Wide Field of View
WIS	Wedged Imaging Spectrometer
WOOD	Aboveground Woody Biomass Production

XPAA X-Band Phased Array Antenna  
XTE X-ray Timing Explorer

YNP Yellowstone National Park