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Expiration Date: five years from effective date
Responsible Organization: GOES-R Program/Code 410

410-R-LIST-0142
Version 2.0

GOES-R Series
Acronym & Glossary Document

January 28, 2016

U.S. Department of Commerce (DOC)

National Oceanic and Atmospheric Administration (NOAA)

National Aeronautics and Space Administration (NASA)

Prepared by:

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GOES-R SERIES ACRONYM & GLOSSARY DOCUMENT
DOCUMENT CHANGE RECORD

VERSION	DATE	CCR #	PAGES AFFECTED	DESCRIPTION
Baseline/ 1.0	07/09/08	1256	All	Baseline the Acronym & Glossary Document
1.1	12/11/08	1294	8, 21	Updated Event (GLM) and Product Refresh Rate/Coverage Time
1.2	09/04/09	1528	numerous	Add acronyms used by the AWG and the antenna procurement team, update product measurement accuracy and precision definitions, added acronyms from the GSP contractor briefing
2.0	10/12/15	3020	numerous	Added acronyms from PDR/CDR/SIR and MOR, evolution of Flight, GSP, AWG and Cal/Val terms

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1　Introduction

The GOES-R Series Program Glossary is intended to provide a unified source of terminology and definitions that may be unique or uniquely-defined for this Program, including the GOES-R Ground Segment and Flight Projects.

When this Glossary is cited in Program or Project documentation as an Applicable document, the definitions herein take precedence over definitions for the same words in other dictionaries or sources.

2　Glossary List

Term	Definition
Abnormal Operation	Encompasses unforeseen circumstances that are not handled via established contingency plans and operational states such as anomalous conditions or failures.
Absolute Time Commands	Stored Commands that have a time tag containing an absolute spacecraft time.
Absolute Time Command Buffer	An allocated memory area used to store the absolute time commands.
Absolute Time Sequence	Sequence of commands executed at the absolute time tag associated with each command in the sequence.
Accepted Risk	A risk (an unplanned event) that is understood and agreed to by the program, organization partners, sponsors, stakeholders, and customer(s) sufficient to achieve the defined success criteria within the approved level of resources. A risk is accepted when its impact is deemed "acceptable" (does not drive a change to the baseline), and/or no additional resources are expended to mitigate the risk. In other words, it is decided that no further action will be taken to reduce the risk.
Acceptance Tests	Tests that establish the basis for delivery of an item under terms of a contract.
Access Point	The Ground Segment interface from which authorized users can request and access GOES-R products, data, and information.
Accident/Incident	An unplanned event that results in personnel fatality or injury; damage to or loss of launch vehicle, environment, public property, or private property; or could result in an unsafe situation or operational mode. An accident refers to a major event, whereas an incident (mishap) is a minor event or episode that could lead to an accident. *(CCR 3020)*

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Term	Definition
Accuracy	Refers to the error in a measurement that is the difference between the measured and true value. It includes both systematic and random errors. Systematic errors must be estimated from an analysis of the experimental conditions and techniques. Random errors can be determined, and reduced, through repeated measurements under identical conditions and a Standard Deviation calculated. The magnitude of a random error is taken as three standard deviations (3σ).
Activation and Characterization Test (ACT)	The Activation and Characterization Test period is the phase of post-launch test consisting of functional verification of spacecraft and instrument operation.
Ad hoc request	In the context of a GOES product request, indicates a one-time request for a specific product(s). Not a product subscription.
Advanced Baseline Imager (ABI)	A multi-spectral channel, two-axis scanning radiometer designed to provide variable area imagery and radiometric information of the Earth's surface as well as the capability for star sensing. The ABI measures emitted and solar reflected radiance simultaneously in all spectral channels. Data availability, radiometric quality, simultaneous data collection, coverage rates, scan flexibility, and minimizing data loss due to the sun, are prime capability requirements of the ABI system.
Affiliated Organization	Other Government agencies, other NOAA facilities, or research institutions that provide support (acquisition, design, development, financial resources, facilities, materials, procedures, equipment and personnel) to or are otherwise associated with the GOES-R Series Program, Flight or Ground Segment Projects, or contractors.
Algorithm Maturity	When expressed as a percentage (e.g., 80%, 100%), represents a metric of both the completeness of a data processing algorithm and the creator's confidence in the algorithm's ability to meet quality requirements for all expected input data.
Algorithm Theoretical Basis Document (ATBD)	A document delivered for each product generation algorithm that describes the algorithm such that it can be implemented and tested in the Ground System.
Ancillary data	Data from a source other than a GOES-R satellite required to perform an instrument's data processing
Anomaly	A discrepancy or deviation from the expected behavior. Anomalies can result from a variety of sources such as system faults, failures, incorrect configurations, unexpected events, and operator errors.
Antenna shelter	A building or enclosed structure to contain all equipment associated with the antenna station (also known as an equipment shelter). (CCR 1528)

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Term	Definition
Antenna station	An individual component of the Antenna System that includes:
	a. the antenna structure, including reflector, axis gears and drives, pedestal, and equipment shelter and enclosure(s);
	b. feeds and sub-reflector(s);
	c. the receive/transmits paths to the Intermediate Frequency Distribution Switching matrix;
	d. frequency translator;
	e. monitoring and control;
	f. cableway(s) and cables, including cabling between the shelter and site operations building;
	g. power to pads from operations building interface;
	h. grounding and lightning protection;
	i. pad, service area, and road extension to pad;
	j. security fence, cameras, and locks;
	k. antenna and station lighting (CCR 1528)
Antenna System (Ground Segment)	Provides the Ground Segment portion of the interface with the GOES-R series satellites and includes:
	a. the set of antenna stations
	b. GOES-R Antenna Monitor, Control, and Test subsystem (GAMCATS)
	c. Intermediate Frequency Distribution Switching (IFDS) matrices
	d. cables and infrastructure
	e. timing and frequency reference system at the RBU
	f. interfaces to existing WCDAS and NSOF timing and frequency reference systems
	g. access roadways
	h. Data Collection System (DCS) antenna(s) and equipment at RBU to generate and uplink Data Collection Platform Report pilot tone. (CCR 1528)
Applicable documents	Documents to be used as though they were included within the citing document.
Archive (Ground Segment)	Capability at a Data Center for maintaining a permanent electronic record of designated files, data, and documentation.
Assembly	An integrated set of components and/or subassemblies that comprise a defined part of a subsystem.

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Term	Definition
Attitude Knowledge	Attitude knowledge is the difference between the true attitude and estimated attitude.
Audit	A review of the Prime Contractor's, or subcontractor's documentation, software or hardware to verify that it complies with project requirements.
Authorized user	Users authorized to have access to GOES-R ground segment distribution function and associated products, data, and information.
Autonomy	The ability to implement an automatic pre-defined response to a stimulus and / or condition that results in a change of the operational mode and / or status of a piece of hardware and /or software independent of external intervention.
Auxiliary Communication Services	A collection of five GOES communication services: GOES Re-Broadcast (GRB); Emergency Managers Weather Information Network/High Rate Information Transmission (HRIT/EMWIN), (formerly known as EMWIN/LRIT); Data Collection System (DCS); Search and Rescue (SAR); and Spacecraft Tracking. (CCR 1528)
Availability	The probability that a system can provide functionality meeting requirements.
Availability, operational	See Operational Availability
Beginning of Life (BOL)	The point in the mission life just after the satellite achieves its mission orbit altitude, when operational resources and functions are at their maximum (e.g., full propellant load, all components operating at full specification, etc).
Baseline	A baseline is a reference point for measuring progress, and can be cost, schedule or technical (performance).
Body Reference Frame	Refer to the General Interface Requirements Document
Build	A software engineering term, generally meaning all data files, libraries, reusable modules, compiled executables and engineered components that are required to implement one or more functions. For the Ground Segment, also used to refer to the integrated set of software components that will be installed and formally tested at an operational site.
Bus	See Spacecraft Bus definition

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Term	Definition
The term "C or fraction of this term (e.g. C/2)	Describes the current for either charging or discharging a battery and is numerically equal to the rated capacity in ampere-hour (Ah). Therefore, to charge a manufacturer's cell or battery rated at 20 Ah at C/2 would be to charge the cell or battery at a current of 10 A. "C" is also the rated capacity, in ampere-hours (Ah), obtained when a battery is discharged from a full state-of-charge (SOC), the Cell and Battery Manufacturer's recommended end-of-charge voltage, to an average cell discharge voltage of 3.0V/Cell at a C/2 rate at 20°C. The actual measured capacity, "C", will be greater than 20% of the manufacture's nameplate capacity. All capacities will refer to rated capacity.
Cadence	The time interval between the start of successive data collection sequences (EXIS). *(CCR 3020)*
Calibration	The process to determine factors for converting and correcting raw detector measurements into science data units (e.g., radiance) with the specified level of accuracy.
Candidate or Candidate Risk	Candidate is a concern that is mature enough to be considered for elevation to a risk. If the concern is not validated as a risk, no immediate action is taken. Instead, a timetable is set up for specific times to re-evaluate the concern, if needed, for a change in status. These "triggers" might be at regular time intervals, or at specific points in the lifecycle, such as at major reviews. *(CCR 3020)*
Catastrophic Hazard	(1) A hazard that could result in a mishap causing fatal injury to personnel and/or loss of one or more major elements of the flight vehicle or ground facility. (2) A condition that may cause death or permanently disabling injury, major system or facility destruction on the ground, or loss of crew, major systems, or vehicle during the mission
Categorical Product	See Product, Categorical (CCR 1258)
Cell Lot	Battery cells produced from the same batch of source materials used to build the cell plates.
Class I change	Proposed configuration change that is beyond the scope of the baseline
Class II change	Proposed configuration change that is within the scope of the baseline
Close Call	An event. An occurrence or a condition of employee concern in which there is no injury or only minor injury requiring first aid or no significant equipment/property damage/mission failure (less than $1000), but which possesses a potential to cause a mishap.

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Term	Definition
Closed Risk	Risk either fully mitigated or otherwise retired.
Cloud Cover Conditions Qualifier	Provides product specific limitations to the cloud cover associated with the threshold accuracy.
Collected Volatile Condensable Material	The quantity of outgassed matter from a test specimen that condenses on a collector maintained at a specific constant temperature for a specified time.
Co-registration	The process of maintaining the relative location with respect to the Earth reference grid of ABI pixels between various spectral channels.
Component	A functional unit viewed as an entity for purpose of analysis, development, production, testing, or record keeping.
Computer Software Configuration Item (CSCI)	A group of software treated as a single entity by a configuration management (CM) system.
Configuration	The functional and physical variable characteristics of a system and all its integral parts, assemblies and systems that make it capable of fulfilling functional and performance requirements.
Configuration Audit	The process of verifying that required Configuration Items (CIs) were produced, current versions of the CIs agree with specified requirements, technical documentation completely and accurately describes the CIs, and all approved change requests were implemented or otherwise resolved. It also includes procedural audits to ensure proper and accepted configuration management procedures are followed.
Configuration Baseline	Configuration of a product or service, formally established at a specific point in time, which serves as a reference for further activities.
Configuration Control	The systematic evaluation, coordination, approval or disapproval, and implementation of all proposed changes to a system configuration after formal establishment of its baseline(s).
Configuration Control Board (CCB)	The authority responsible for establishing baselines, evaluating and approving or disapproving proposed changes to established baselines and ensuring implementation of the approved changes to those baselines.
Configuration Change Request (CCR)	A documented request to issue, changes, revise, or delete a controlled item.
Configuration Documents	Documents that define requirements, design, build/production, validation, and interfaces of a product or service.
Controlled Document List (CDL)	An index of baseline documents that describe each system configuration.
Configuration Identification	The process of designating and documenting the characteristics of Configuration Items (CIs) in a system configuration.
Configuration Item (CI)	The smallest unit of hardware or software that is individually configuration controlled.

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Term	Definition
Configuration Management (CM)	The process of identifying, controlling, and maintaining, and auditing status information on changes to configurations of documentation, hardware, software, firmware, and aggregate products throughout a system life cycle.
Configuration Status Accounting (CSA)	The recording and reporting of current configuration information, including CDLs, status of proposed changes, and implementation status of approved changes.
Contamination	The presence of materials of molecular or particulate nature, which impair or degrade the performance of hardware.
Contingency	Either a description of an activity, or a type of procedure or other documentation written to correct, and/or prevent, and/or mitigate a potential problem or an either a description of an activity, or a type of procedure or other documentation written to correct, and/or prevent, and/or mitigate a potential problem or an anomaly.
Continuity of Operations Deployment	Temporary relocation of operations and sustainment staff from the GS primary facility to the Remote Backup (RBU) for continuity of operations or as a training exercise.
Constellation	Grouping of GOES satellites in orbit
CONUS – Flight	Defined as a nadir-viewed rectangle 8.0215 x 4.8129 degrees, 5000 East/West x 3000 North/South kilometers, approximately in the geographic area of 10N-60N latitude and 60W-125W longitude.
CONUS – Ground	Defined as nadir-viewed rectangle 8.0215 x 4.8129 degrees, 5000 km East/West x 3000 km North/South, approximately the geographic area of 15-55 N latitude and 50-115 W longitude (when collected from East and Central orbital positions) or 15-55 N latitude and 90-160 W longitude (when collected from West orbital position *(CCR 3020)*
Corrective Action	Action taken to preclude occurrence of an identified hazard or to prevent recurrence of a problem *(CCR 3020)*
Credible Failure	A condition that has a reasonable occurrence. For the purposes of this document, failures of structure, pressure vessels, and pressurized lines and fittings are not considered credible failure modes if those elements comply with the applicable requirements of this document.
Critical Hazard	A condition that may cause severe injury or occupational illness, or major property damage to facilities, systems, or flight hardware.
Critical (Ground Segment)	A designation that an item or its condition may impact ability of the mission to provide KPPs, risk the health & safety of the flight system, cause severe injury or occupational illness, or cause major property damage to facilities, systems, or flight hardware.
Critical Command	A command issued by the ground to the satellite producing changes in operational parameters that have the potential to adversely affect the health and safety of the satellite or result in irreversible changes to the operational state of the satellite.

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Term	Definition
Critical Life and Property products	Those ranked as Key Performance Parameters
Critical Operational Issues	Key questions examined to determine the system's capability to perform its mission *(CCR 3020)*
Critical Single Failure Point	A single item or element, essential to the safe functioning of a system or subsystem, whose failure in a life or mission essential application would cause serious program or mission delays or be hazardous to personnel. *(CCR 3020)*
Critical Structure Members	Structural members are classified as critical when their failure would result in loss of structural integrity of the flight units.
Critical telemetry	Telemetry points that are required to monitor the instrument in powered off state
Daily Operations	Recurring, nominal operations over a 24 hour period.
Data (Ground Segment)	Numerical or other information represented in a form suitable for processing by computer.
Data Latency	The time interval between the end of a data collection sequence and the time that the calibrated data are available for dissemination on the ground. The EXIS contribution to data latency includes delay of delivery of data to the spacecraft interface and the delay due to ground algorithm processing. *(CCR 3020)*
Data Provenance	The process of tracing and recording the origins of data and its movement between databases. It contains the derivation history of data, beginning with its original sources. It includes elements such as who (person) or what (process) created the data, where it came from, how it was transformed, the assumptions made in generating it, and the processes used to modify it.
Depth of Discharge (DOD)	DOD is defined as the percentage of capacity discharged divided by the rated capacity. Therefore, a 60% DOD would be achieved by discharging 60 Ah from a battery with a rated capacity of 100 Ah.
Derating	The reduction of the applied load (or rating) of a device to improve reliability or to permit operation at high ambient temperatures.
Design Life	The minimum period of time during which the spacecraft must be capable of performing all mission operational requirements.
Design Qualification Tests	Tests intended to demonstrate that a test item will function within performance specifications under simulated conditions more severe than those expected from ground handling, installation, launch, ascent, and orbital operations. Their purpose is to uncover deficiencies in design and method of manufacture. They are not intended to exceed design safety margins or to introduce unrealistic modes of failure. The design qualification tests may be to either "prototype" or "protoflight" test levels.

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Designated Representative	An individual (such as a plant representative), firm (such as assessment contractor), or other government representative identified and authorized by the government to perform a specific function for the government. As related to the contractor's effort this may include evaluation, assessment, design review, participation, and review/approval of certain documents or actions.
Destructive Physical Analysis (DPA)	An internal destructive examination of a finished part or device to assess design, workmanship, assembly, and any other processing associated with fabrication of the part.
Deviation	A known departure from requirements prior to any manufacturing or development taking place. Requires government approval.
Diagnostic Product	Any product that is output from the Level 1 processing of instrument data received from diagnostic data-producing instrument modes.
Directive	A policy, procedure and guideline, or instruction that has been approved and published by the appropriate authority. GPR 1410.1 addresses four types of directives, each of which serves a specific purpose.
Directive, Ground	An instruction to a component of a ground system, which is operator-defined and may be initiated in response to operator input or defined event criteria.
Discrepancy	See Nonconformance.
Disposal, satellite	The final phase of a satellite mission. At the end of its operational life, GOES satellites are raised 300 kilometers above synchronous altitude to allow another satellite to use the vacated orbital slot.
East Geostationary Orbit location	75 degrees West Longitude.
Eclipse	Defined as when the solar disk is completely or partially occulted by the Earth or Moon as viewed from the spacecraft.
Electromagnetic Compatibility (EMC)	The condition that prevails when various electronic devices are performing their functions according to design in a common electromagnetic environment.
Electromagnetic Interference (EMI)	Electromagnetic energy which interrupts, obstructs, or otherwise degrades or limits the effective performance of electrical equipment.
Electromagnetic Susceptibility	The potential for an undesired response by a component, subsystem, or system to conducted or radiated electromagnetic emissions.
Element	A major grouping of Ground Segment functional capabilities, either Mission Management, Enterprise Management, Product Generation, or Product Distribution
Embedded software	A fixed set of digital instructions stored in a device, which is designed to remain unchanged during operations, also called firmware.

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Term	Definition
Emergency	Any condition that can result in personnel injury or threat to life and requires immediate corrective action. *(CCR 3020)*
End of Life (EOL)	The point in the mission life where resources required to maintain operational specification have been effectively exhausted (e.g. propellant remaining only for de-orbit, components degraded, etc).
End-Product	A collection of one or more geophysical variables derived from remotely sensed data (products) that is uniformly packaged, processed and formatted and made available to a user with associated ancillary data.
	An end-product is a product with specific formatting as output by the Ground Segment. End-product is not interchangeable with product as specified in the Mission Requirements Document.
End-to-End (E-T-E or ETE)	For an operational system, this includes data gathering by the satellite payload and on-board payload processing for downlink, data ingest and preparation, together with ground telemetry processing, product generation and distribution within stated latency and performance constraints. For a sub-system element such as an instrument, ground MM or PG, initiates at the receipt of data through its precedent interface, through completion at the element level to its delivery interface.
End-to-End Test	A Program-defined test that verifies the interoperability of the space segment-to-ground segment interface in a configuration as close to flight-like as possible.
Engineering Data (ABI specific)	All data available on-board about health, safety, environment, or status of the spacecraft and instruments. • Spacecraft Engineering Data – The subset of engineering data from spacecraft sensor measurements and on-board computations • Instrument Engineering Data – All non-science data provided by the instrument.
Engineering Review Board (ERB)	A group of Program and/or Project technical and management personnel convened to review all proposed changes to contract applicable documents per the GOES-R Configuration Management Plan (CMP).
Engineering Telemetry	The state of health, health and safety, housekeeping, and diagnostic data that are transmitted to the ground and used in the control, monitoring, and operation of the satellite.
Enterprise Management (EM)	Supports all operational functions by monitoring, assessing, and controlling the configuration of the operational systems, networks, and communications for the GOES-R ground segment. EM serves as the "glue" that links the MM, PG, and PD elements and provides for a degree of automated control. EM thus contributes to greater operational availability, efficiency, and safety of the GOES-R system.

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Term	Definition
Environmental Test Requirements	The environmental test requirements of GEVS generally start at the component or unit-level assembly and continue hardware/software build through the end-to-end system level. The assurance program includes the part level. Validation testing may also include testing at the assembly and subassembly levels of assembly; for test record keeping, these levels are combined into a "subassembly" level. The validation program continues through launch, and on-orbit performance.
Essential Loads	Power loads that are essential for safety and health of the space vehicle.
Event (Ground Segment)	An activity or asynchronous change of state, which fulfills a predetermined set of criteria.
Event (GLM)	A single sample exceeding the background threshold in a single frame. Event sources can include (but are not limited to) lightning, radiation, electronics noise, surface glint, and jitter. A lightning event (Ground Segment) is the result of level 1b processing where source events are selected to include only lightning. (CCR1294)
Event Message (Ground Segment)	Information that describes or identifies the occurrence of an event, and should contain sufficient information such that an operator can manage routine and anomalous conditions across the GS, to include GS supervision, anomaly tracking, history accounting, etc. *(CCR 3020)*
Expected Value (or Expected Utility)	The product of two numbers, probability and impact (value or amount at stake other than a monetary value, i.e. utility).
Extendibility	The ability for a hardware or software system or component to accommodate modifications to increase its storage or functional capacity.
Extensibility	The ability of a hardware or software system to accommodate expanded capabilities without significant changes in design.
External Document	A document, such as a plan, specification, or standard that comes from an external source and is implemented by an organization as part of the QMS. Examples include military specifications and industry standards.
Extreme Ultraviolet Sensor (EUVS)	Provides information on the full solar EUV spectrum that is critical to understanding and modeling the thermosphere and ionosphere.
Factory	A general term to refer to the contractor's development facility(s) or location(s).
Failure	See Nonconformance.
Failure Modes and Effects Analysis (FMEA)	A procedure by which each credible failure mode of each item from a low indenture level to the highest is analyzed to determine the effects on the system and to classify each potential failure mode in accordance with the severity of its effect.
Fault Management	Process of detecting and reacting to the occurrence of a fault or anomaly, whether in hardware or software.
Fault Tolerance	Built-in capability of a system to perform as intended in the presence of specified hardware or software failures.

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Term	Definition
Final Acceptance	The formal change of ownership from one organization to another.
Firmware	Computer programs and data loaded into a class of memory not dynamically modifiable by the computer during processing (e.g., Programmable Read Only Memories, Application Specific Integrated Circuits with embedded read only memory, Microcontrollers with embedded read only memory). *(CCR 3020))*
Fixed Grid	A two-dimensional angular grid projected from the ideal location of a GOES spacecraft; used by the ground system to remap actual observations of the Earth onto a constant projection. See Image Navigation and Registration.
Flash (GLM)	A series of groups separated temporally by no more than a specified interval (typically 1 second) and spatially by no more than 1 ground sample distance (nominally 10km).
Flexible Image Transport System (FITS)	The standard data interchange and archive format of the astronomy community.
Flight Acceptance	See Acceptance Tests.
Flight Hardware	Hardware used, or to be used, operationally in space.
Flight Software	Software used or to be used operationally in space.
Flux Resolution	Minimum difference in flux which can be measured. (EXIS) *(CCR 3020)*
Frequency of Delivery	The frequency of data submissions will be identified by one of the following items: Weekly (W), Bi-weekly (BW), Off Bi-Weekly (OBW), Monthly (M), Bi-Monthly (BM), Quarterly (Q), Annually (A), As Required (AR), and As Generated (AG).
Full Disk	Defined as a 17.76-degree diameter circle centered at nadir, where 0.36 degree is added to the normal Earth diameter of 17.4 degrees for non-ideal orbital characteristics and anticipated image motion.
Full Solar Disk	Defined as 40 arc-min diameter - 1.3 times the visible solar diameter. (EXIS) *(CCR 3020)*
Full Operational Capability	Defines the event at which full availability requirements of both East and West operational stations are met exclusively with GOES-R series resources.
Fully Functional Configuration	Being able to collect the full complement of science data; determine instrument response changes; acquisition of sensor health and status data; generation of sensor, calibration, monitoring, health and status data streams; and reception and execution of command and control data.
Functional Tests	The operation of a unit in accordance with a defined operational procedure to determine whether performance is within the specified requirements.
Geometric Calibration	The process of locating instrument observed data to a reference frame (e.g., Earth, solar, inertial).
Goddard Policy Directive (GPD)	A policy statement that describes what is required by GSFC management for achieving NASA's vision and mission.

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Term	Definition
Goddard Procedural Requirements (GPR)	A statement of specific, detailed procedures for implementing NASA and Goddard policies.
GOES CENTRAL / GOES-CENTRAL	GOES-CENTRAL is the name given to whichever GOES satellite is currently located in the On-orbit check-out location and processing operational data. This distinguishes it from the retired or spare GOES satellites and GOES-EAST/WEST. *(CCR 3020)*
GOES EAST / GOES-EAST	GOES-EAST/WEST is the name given to whichever GOES satellite is currently located in the East/West Geostationary Orbit and processing operational data. This distinguishes them from the retired or spare GOES satellites and GOES CENTRAL. *(CCR 3020)*
GOES WEST / GOES-WEST	GOES-EAST/WEST is the name given to whichever GOES satellite is currently located in the East/West Geostationary Orbit and processing operational data. This distinguishes them from the retired or spare GOES satellites and GOES CENTRAL. *(CCR 3020)*
GOES-R Access Point	The Ground Segment interface from which authorized users can request and access GOES-R products, data, and information.
GOES Rebroadcast (GRB)	The relay of selected GOES-R data products through the satellite. This term is often used to refer to the product set being rebroadcast.
GOES Variable (GVAR)	The service for rebroadcasting GOES I-P data.
Government	In the context of personnel, includes Government personnel and designated Government support contractor personnel
Ground Data Latency	Product-dependent baseline maximum time allocated to the GS, defined as: a) the time between the receipt of the last image data packet on the ground and delivery to the AWIPS demarcation point in the case of sectorized products, and b) the time between the receipt of the last image data packet on the ground and the end-point of the GOES-R Access Subsystem in the case of all other products (CCR 1528)
Ground Directive	An instruction issued to affect the configuration or state of the Ground Segment at the component (CSCI), subsystem, element, or system level based on operational conditions or in response to an anomaly or fault. A ground directive may be issued by an operator via HMI or by an automated system response via script or procedure. Ground directives may be constrained to a particular element (e.g. directives controlling configuration within EM, MM, PG, or PD) or apply across elements (e.g. EM controlling configuration within other elements and MM controlling external resources such as antennas). *(CCR 3020)*

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Term	Definition
Ground Latency, Antenna-Allocated	Sum of (1) the Baseline maximum time allocated between the receiving of the data in the last packet of the observation at the RF input to the antenna and the intermediate frequency conversion and (2) the Baseline maximum time between the intermediate frequency on the transmit side of the GRB transmitter on the ground at CDAS and the intermediate frequency on the received side of the GRB transmitter on the ground at NSOF. (CCR 1528)
Ground Latency, GAS-Allocated	Baseline maximum time between the arrival of the last bit of a GOES-R product at the ingest point of the GAS and: a) the time when the file is ready to be pushed to the external recipient b) the time when the file is staged and available to be pulled by the external recipient (CCR 1528)
Ground Latency, Vendor-Allocated	Product-dependent baseline maximum time allocated to the GS vendor, defined as the time between the arrival of the last data packet of an observation at the intermediate frequency conversion and the arrival of the last bit of a GOES-R product at either: a) the AWIPS demarcation point in the case of sectorized products, or b) the ingest point of the GOES-R Access Subsystem in the case of all other products. (CCR 1528)
Ground Segment	That part of the GOES-R System that includes the ground-based satellite operations and data capture, processing, and distribution elements. The main functional elements include Mission Management, Enterprise Management, Product Generation, and Product Distribution.
Group (GLM)	A series of lightning events (since the non-lightning events will have been filtered out before grouping) occurring at the same time (i.e. within an integration period) and in adjacent pixels
Guidance Navigation and Control (GN&C)	Comprises the disciplines of attitude determination and control, orbit determination, propulsion, and flight dynamics.
Handover	The formal change of responsibility from one organization to another.

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Term	Definition
Hardware	As used in this document, there are two major categories of hardware as follows:
	a) Prototype Hardware: Hardware of a new design; it is subject to a design qualification test program; it is not intended for flight.
	b) Flight Hardware: Hardware to be used operationally in space.
	1) Protoflight Hardware: Flight hardware of a new design; it is subject to a qualification test program that combines elements of prototype and flight acceptance validation; that is, the application of design qualification test levels and duration of flight acceptance tests.
	2) Follow-On Hardware: Flight hardware built in accordance with a design that has been qualified either as prototype or as protoflight hardware; follow-on hardware is subject to a flight acceptance test program.
	3) Spare Hardware: Hardware the design of which has been proven in a design qualification test program; it is subject to a flight acceptance test program and is used to replace flight hardware that is no longer acceptable for flight.
Hazard	The presence of a potential risk situation caused by an unsafe act or condition. *(CCR 3020)*
Hazardous Command	A command whose execution (including inadvertent, out-of-sequence, or incorrectly executed) could lead to an identified critical or catastrophic hazard, or a command whose execution can lead to a reduction in the control of a hazard (including reduction in failure tolerance against a hazard or the elimination of an inhibit against a hazard).
Hazard Detection	An alarm system used to alert personnel to an actual or impending hazardous situation for which corrective action or protection is required. *(CCR 3020)*
Heartbeat	A message sent by client software to its server indicating an online status
High fidelity simulation	Recreating a functional element's capability in such a way as to be nearly indistinguishable from the physical reality; very faithful to the original.
History track mode	An open-loop antenna control mode in which the Antenna Control Unit repeats prior tracking patterns based on input from the history data base produced by the signal track mode, entered manually or retrieved from prior history track files.
Housekeeping	The set of activities or resources periodically invoked to maintain the satellite within mission-acceptable parameters and in a condition to provide full mission objectives.
Housekeeping Telemetry	Data required to monitor instrument and/or observatory operation, health, and safety

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Term	Definition
Image Navigation and Registration (INR)	A set of image quality metrics pertaining to the location errors of Earth-referenced instrument pixels in Level-1b data. Navigation is absolute pixel location accuracy, and the various registration requirements specify relative pixel location accuracy. Within-frame registration and line-to-line registration are relative pixel-to-pixel location errors within a single frame. These errors result in image distortion and shear within a single image. Frame-to-frame registration is the relative motion of a given pixel in sequential frames. This error produces jumps when successive images are looped. Channel-to-channel registration is the offset between spectral channels for a given pixel location. These errors affect multi-spectral products derived from raw imagery.
Independent Inhibit	Two or more inhibits are independent if no single credible failure, event or environment can eliminate more than one inhibit.
Independent Verification and Validation	A system analysis, test, and evaluation effort that is conducted by an entity independent of the development organization and the customer organization. (CCR 1528)
Information rate	The rate of earth observation data prior to coding or other overhead that contributes to the total transmission rate.
Inhibit (Space Segment)	A design feature that provides a physical interruption between a stimulus and a function.
Initial Operational Capability (IOC)	The event when the first GOES-R series mission has satisfactorily completed flight testing, and the complete flight and ground system has been verified as meeting all functional, performance, and availability requirements for a complete set of instruments at either the East or West operational stations.
Initial Risk List	An initial set of risks identified by GOES-R Series Program. These risks will be identified through brainstorming sessions and interviews conducted by the Risk Management Coordinator with the Program team, and will include preliminary analysis of Program schedules, technical performance, budgets, and resource allocations.
Inspection	The process of measuring, examining, gauging, or otherwise comparing an article or service with specified requirements.
Instrument	For GOES-R the instruments are: ABI, EXIS, GLM, Magnetometer, SEISS, and SUVI.
Instrument data	Data output from an instrument which consists of raw science data, instrument engineering telemetry, and associated spacecraft telemetry.
Instrument Unit	Means the sensor unit, electronics box (if applicable), or other units of the instrument.

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Term	Definition
Integrated Product Team	(IPT)/Integrated Development Team (IDT) or Working Group (WG). A (generally small) formal or informal GOES-R Series Program group, working on a specific task, service, product, or functional discipline. Under GOES-R Series Program Risk Management, risks are assigned to Risk Owners to be worked with support from subject matter expertise and the program team.*(CCR 3020)*
Interface Control Document (ICD)	A specification of the mechanical, thermal, electrical, power, command, data, communications and other interfaces that system elements must meet.
Interoperable	A characteristic of multiple systems that work together or communicate seamlessly.
Joint Risks	Risks related to the GOES-R Series Program, contractors, or affiliated organizations collectively involving coordinated risk handling/action. These risks may include risks crossing all segments or risk impacting multiple risk areas.
Key Performance Parameters (KPPs)	The minimum mission subset of products identified as critical to the protection of life and property. For GOES-R, the KPPs are cloud and moisture imagery.
Landmark	A geographical feature, such as a segment of coastline, identified in image data (at one or more spectral bands) and used to locate instrument reference frame data on the Earth reference grid.
Latency, Ground Data	See Ground Latency.
Launch	The period of time between lift off and the separation of the GOES-R Series satellite from the launch vehicle.
Launch and Orbit Raising (LOR)	The launch and orbit raising (if needed) phase consists of the launch, transfer orbit operations, orbital maneuvers to the checkout station, appendage deployments, and spacecraft functional checkout. (CCR 1528)
Level 0	Reconstructed unprocessed instrument data at full resolution; any and all communications artifacts (e.g. synchronization frames, communications headers) removed.
Level 1a data	Level 0 data with all supplemental information appended for use in subsequent processing.
Level 1b data	Level 0 data with calibration and geometric correction applied to produce parameters in physical units. (CCR 1528)
Level 2 data	Derived environmental variables (e.g., sea surface temperature) at a comparable temporal and spatial resolution to the Level 1 source.
Level 2+ data	All level 2 and higher products.
Level 3 data	Data or retrieved environmental variables which have been spatially and/or temporally resampled (i.e. derived from Level 1 or 2). Such resampling may include averaging and/or compositing.

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Term	Definition
Level 4 data	Model output or results from analyses of lower level data (i.e., data that are not directly measured by the instruments, but are derived from these measurements).
Level of Assembly (Space Segment)	The environmental test requirements of GEVS generally start at the component or unit-level assembly and continue hardware/software build through the system level (referred to in GEVS as the payload or spacecraft level). The assurance program includes the part level. Validation testing may also include testing at the assembly and subassembly levels of assembly; for test record keeping these levels are combined into a "subassembly" level. The validation program continues through launch, and on-orbit performance. The following levels of assembly are also used for describing test and analysis configurations:

- Part: A hardware element that is not normally subject to further subdivision or disassembly without destruction of design use. Examples include resistor, integrated circuit, relay, connector, bolt, and gaskets.

- Subassembly: A subdivision of an assembly. Examples are wire harness and loaded printed circuit boards.

- Assembly: A functional subdivision of a component consisting of parts or subassemblies that perform functions necessary for the operation of the component as a whole. Examples are a power amplifier and gyroscope.

- Component or unit: A functional subdivision of a subsystem and generally a self-contained combination of items performing a function necessary for the subsystem's operation. Examples are electronic box, transmitter, gyro package, actuator, motor, battery. For the purposes of this document, "component" and "unit" are used interchangeably.

- Subsystem: A functional subdivision of a system consisting of two or more components. Examples are structural, attitude control, electrical power, and communication subsystems. Also included as subsystems of the payload are the science instruments or experiments.

- Element: A major grouping of Segment functional capabilities. For Space Segment, these include the spacecraft bus, instruments, and auxiliary communications. For the Ground Segment, these include Mission Management, Enterprise Management, Product Generation, and Product Distribution.

- Segment: A major product, service, or facility of the system. For GOES-R, Ground Segment and Space Segment are defined.

- System: The entire GOES-R satellite constellation and its supporting ground infrastructure. The system is an integrated set of segments, elements, and/or subsystems that accomplish a defined objective. The GOES-R System represents the combined Space Segment and Ground Segment capabilities.

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Term	Definition
Level of Assembly (Ground Segment)	A term that refers to a level of Ground Segment decomposition or integration. The order of the levels is as follows: GOES-R System <> Ground Segment <> Element <> Subsystem <> Component
Limit Loads	Defined as all worst case load conditions including temperature effects from the environments expected during all phases of the structure's service life including manufacturing, ground handling, transportation, environmental testing, integration, pre-launch, launch and on-orbit operations and storage.
Limited Life Items	Hardware: • That has an expected failure-free life that is less than the projected mission life, when considering cumulative development, operations and storage. • Limited shelf life material used to fabricate hardware.
Local Zenith Angle	The angle between the local vertical and the line-of- sight of the spacecraft.
Magnetometer Instrument	Consists of an electronics unit and boom mounted tri-axial magnetic sensors.
Maintenance Levels	First Level - Routine and recurring maintenance by Government and on-site support contractors. Second Level - First attempt at repair or replacement of a failed component (e.g., board swap or unit replacement) by Government and on-site support contractors. Third Level - Maintenance support from specialized vendors to supplement on-site Government and support contractors. Usually through contracts with associated response times.
Manifest	In the context of the Ground Segment interface to CLASS, a list of the GOES-R products currently available for delivery to CLASS and is sent to initiate the archive delivery process. (CCR 1528)
Margin	The amount by which a capability exceeds mission requirements, as defined by: Margin% = [(Available Resource - Current Best Estimate) / (Available Resource)] x 100%.
Marginal	Minor injury/illness and/or minor equipment damage resulting in limited delay of mission.
Material	Substances including hardware, software and data that wholly or partially comprise a system, subsystem, component, or assembly.
Material/Failure Review Board (MRB)	The formal Contractor board established for the purpose of reviewing, evaluating, and disposing of specific nonconforming materials, supplies or services, and for ensuring the implementation and accomplishment of corrective action to preclude recurrence.
Mean Time Between Failure (MRD)	The average time that a system/component works without a failure.
Mean Time to Failure	The expected time that a system/component will operate before the first failure will occur.

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Term	Definition
Mean Time to Repair	The average time required to repair a system/component.
Maximum Time To Restore Services	The specified time required to restore services of a system or component.
Measurement Resolution	Resolution of the A/D converter.
Mesoscale (MESO)	Defined as the equivalent of a 1.6043 x 1.6043 degree, 1000 x 1000 km nadir viewed area.
Metadata	Information about data. An information file that exists to provide supplementary details about a data product. Metadata specifications are tailored to the needs and content of the product file. Metadata may include items such as product quality flag, data time span, algorithm version used for creation, ancillary file name(s), etc.
Metric	A defined variable or set of variables, that uses collected measurements and information to describe the performance of a unit, subsystem, or a system.
Mission	The full life cycle development and operation of a particular satellite. The Mission Phases are: Pre-launch, Launch and Orbit Raising, Post-Launch Test, Operations, Storage, and Disposal.
Mission Allowable Temperature (MAT)	The established range of temperatures that units are permitted to experience while operating and non-operating in orbit. Mission allowable temperatures are established based upon analytical temperature predictions and upon the temperature range over which the hardware can operate. MAT encompasses worst case operating and non-operating temperature predictions, uncertainty, and any contractor desired temperature margin.
Mission availability	The probability that the entire GOES-R series system can be successfully used for its specified mission over the stated period of time.
Mission Critical (Ground Segment)	Having the potential to adversely affect either the health and safety of a flight system resource or the capability of the end-to-end GOES-R System to provide KPP product data. Components or functions designated as "mission critical" may include hardware, software, and procedural components and functions in either flight or ground systems.
Mission Critical (Space Segment)	Hardware or software whose loss could affect the health and safety of the personnel, the satellite vehicle in flight, or the launch vehicle during launch.
Mission Critical Events	Critical events are the events in a mission that must occur in sequence to achieve overall mission success. If the event is not executed properly and without anomaly, it could result in failure to accomplish the mission. Examples of critical events include orbit raising, station keeping and appendage deployment.
Mission Management (MM)	Includes satellite mission scheduling, operations, state-of-health trending, orbital analysis, data acquisition, and ground operations.
Mission Operations	Activities including real-time console operations, offline engineering and trending, bus and instrument health and safety and performance monitoring, anomaly detection and resolution, procedure development, spacecraft resource accounting, and special operations planning and execution.

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Term	Definition
Mission Operations Support Team (MOST)	A team formed by the Flight Project to focus on mission operations, from pre-launch planning and development, through launch and orbit raising, post-launch test, and transition to sustaining operations. The MOST includes personnel from both the Flight and Ground Segment Projects, Program System Engineering and the NOAA Office of Satellite Operations, including discipline engineers (spacecraft bus and instrument), systems engineers, flight and ground controllers, mission planners and schedulers, ground systems engineers, software maintenance, and associated support personnel. Membership will include Flight and Ground Segment contractor personnel, depending on mission phase. A key feature of the GOES-R MOST will be early involvement of several NOAA operations staff dedicated to GOES-R mission operations in the early stages of pre-launch development. The MOST will be led by the GOES-R Mission Operations Manager. (CCR 1528)
Mission Readiness Test	Any of the series of tests performed prior to satellite launch, to verify and validate the connectivity and communications between the ground segment and the various external entities that will provide launch and early orbit operations support (e.g., launch site tracking stations). Tests usually performed near to launch time when such interfaces are configured and available for testing.
Mission Plan	A time-ordered collection of schedules, where each schedule contains command sequences and ground directives that collectively accomplish mission objectives *(CCR 3020)*
Mode	Manner of operation, use or existence of a system.
Monitor	To track or witness the progress of an activity.

Alternate definition - Ascertains the safety status of the observatory and GSE functions, devices, parameters, etc. *(CCR 3020)* |
Near-real time	The designation applied to the propagation of data through a system with time delays that do not adversely impact the system and are compatible with operational requirements.
Negligible	Injury requiring minor first aid and/or minor system damage.
Nesting (commands)	A method of command sequence or procedure (PROC) organization by which a set of commands is established as subordinate to a "parent" command, and all subordinate commands execute prior to the next "parent" command in the sequence or PROC. Subordinate commands can, themselves, be "parents" to other groupings of subordinate commands, which is referred to as "nesting."
Network Common Data Form (NetCDF)	Network Common Data Form - A machine-independent self-describing file format for scientific data.

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Term	Definition
Nonconformance	A condition of any hardware, software, material, or service in which one or more characteristics do not meet requirements. The inability of a system, subsystem, component or part to perform its required function within specified limits, under specified conditions for a specified duration. (per SSPP) *(CCR 3020)*
Nonconformance, minor	A nonconformance that is not likely to materially reduce the usability of the supplies or services for their intended purpose, or is a departure from established standards having little bearing on the effective use or operation of the supplies or services.
Non-critical telemetry	Telemetry points that are required to monitor the instrument in powered on state.
Non-Essential Loads	Power loads that can be powered off without adversely affecting the minimum controllability and commandability of the spacecraft.
Non-interference basis	No interference causing loss of data or reduction in data quality occurs between affected systems.
Non-operational Temperatures (NOT)	The established range of temperatures that components are permitted to experience while dormant, not operating and not powered. NOT temperatures represent the permissible range while the hardware is off. During flight, survival heaters maintain hardware at or above the cold NOT limit and passive design maintains hardware below the upper NOT limit. It is also known as non-operating MAT.
Normal Operation	Operational states of the spacecraft that exist or occur by design, according to the expectation of the mission designers and planners.
Notifications	Unsolicited communications from the Ground Segment to Users. These messages may be communicated using a variety of communication methods.
Off-gassing	The loss of volatile materials under nominal (760 torr) ambient pressure, with a dependency on temperature with respect to the rate of loss (CCR 1528)
Off-line development	The build-up and testing of components for an operational system without interference with the operational system.
On-orbit check-out location	89.5 degrees West Longitude *(CCR 3020)*
On-orbit storage location	105 degrees West Longitude
Open	An attribute of a hardware or software system's design such that it employs modular design tenets and uses widely supported, consensus-based, and non-proprietary standards for its key interfaces, operating systems, data formats, and languages.
Operational	A status designation that indicates readiness, capability, and authorization to support or conduct mission operations. Also a descriptive term to refer to something in an operations-like state or configuration.

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Term	Definition
Operational Activation	Activation of a satellite from a non-operational state (e.g., storage) to a state that is able to perform full mission operations.
Operational Availability	Steady-state availability through the GOES-R series operational lifetime, averaged over 30 days, including the GOES-R facilities and networks (to the extent of the demarcations defined in the applicable IRDs).
Operational Capability	Set of end-to-end activities consisting of people, processes and technical means necessary to perform an operational task to achieve an operational effect. *(CCR 3020)*
Operational Lifetime	GOES-R series operational lifetime begins immediately after instrument check-out of the first satellite on-orbit and extends through the operational usage of a GOES-R series satellite (providing at least partial CONUS coverage) (TBR) while meeting the mission availability requirements. (CCR 1528)
Operational Loads	The expected on-orbit structural loads
Operational Sun-pointing Time	Refers to when the pointing performance of the spacecraft is within the 3-sigma values defined for the pointing error and pointing stability.(EXIS) *(CCR 3020)*
Operations	See Mission Operations
Operations Concept	A concept that defines how the GOES-R system will be verified, launched, commissioned, operated, and disposed. Defines how the design is used to meet the requirements. If separate concepts for maintenance and testing are not provided, then these items are also included in the operations concept.
Operator	Authorized and certified personnel who operate the Ground Segment according to their operator role and privileges (e.g., flight and ground controller, mission planners and scheduler, ground systems engineer).
Orbit Reference Frame	Refer to the General Interface Requirements Document (GIRD).
Organization Head	The head of any organization needing to establish configuration management procedures. Examples include project managers, project scientists, branch heads, Directors of, etc.
Outgassing	The emanation of volatile materials resulting in a mass loss and/or material condensation on nearby surfaces.
Part	The lowest level of separately identifiable items.
Payload	An instrument or communications component mounted on the spacecraft that provides measurement data or communications service to fulfill mission goals. Alternate definition - An unmanned load that is launched by a launch vehicle. It includes sub-systems and components constituting a payload. *(CCR 3020)*

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Term	Definition
Personal Maintenance Unit	A unit that allows maintenance personnel to control the antenna at the antenna station, providing sufficient control capability to protect personnel from inadvertent antenna movement. (CCR 1528)
Phase	Stage in the life cycle of a mission.
Pilot signal	In the context of the Data Collection System, a continuous UHF signal to both the GOES-East and -West spacecraft, used to compensate for frequency drift in the spacecraft DCS transponder and to adjust the overall system gain by employing phase-lock loop technique.
Pixel	Applies to calibrated and navigated data samples (after resampling during the ground processing if required). (EXIS) *(CCR 3020)*
Pointing accuracy, antenna	The accuracy with which the antenna boresight can be commanded to point to a certain position and can be held at the position under the environmental operating conditions (see also Tracking accuracy). (CCR 1528)
Portal	A virtual environment that provides organized capabilities to its users and a pathway to other content.
Post-Launch Product Test (PLPT)	PLPT includes those verification and validation activities necessary to certify the set of new GOES-R end-products. PLPT will begin during the SPOT phase, when the instrument checkout is sufficiently far along to result in usable data. PLPT will exercise GS product generation capabilities and ensure that the end-products meet GOES-R requirements and objectives. (IV&V) *(CCR 3020)*
Post-Launch Test (PLT)	Refers to a test phase, which begins immediately after LOR and acquisition of the desired checkout orbital location with the execution of a pre-defined series of spacecraft and instrument test plans. These test sequences are designed to verify compliance with all space and ground segment mission requirements. The PLT phase consists of three test sets; Activation and Characterization Test (ACT), Systems Performance and Operations Test (SPOT), and Post-Launch Product Testing (PLPT). Together these verify and validate function and performance through on-orbit operations and determine readiness of the GOES-R System for handover and Government acceptance. *(CCR 3020)*
Precision	Refers to the standard deviation (1s) of a statistically meaningful number of samples of a measurement.(EXIS PORD) *(CCR 3020)*
Pre-Launch (PREL)	The pre-launch phase provides for the design, construction, integration, and testing of each spacecraft, satellite integration and test, shipment to the launch site, as well as launch site activities. This phase also includes the development, installation, and testing of any associated ground equipment software, and facilities required during all subsequent mission phases. This phase begins at spacecraft contract award and continues until one day before launch (L-1 day).
Primary instruments	All the ABI instruments
Prime Contractor	The contractor under direct government contract, usually for a large project.

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Term	Definition
Procedures and Guidelines	A documented description of how a Goddard organization will perform its own activities.
Product	Derived data from the raw instrument measurements in a specific output format. Products may be classified as Level 0, Level 1, and Level 2+ depending on their degree of processing.
Product Baseline	Indicates product or product parameters that are part of the base contract.
Product, Categorical	A product whose output is limited to a set of discrete values. (CCR 1528)
Product Development Lead (PDL)	The leader of the contractor and/or civil servant team responsible for the development of a GOES-R product as part of the Flight Project or Ground Segment Project. Responsible for assigning risks to team members, including study and development contractors, and also verifying that new risks submitted to the team have been routed correctly and vetted through the risk management process described in the Risk Management Plan.
Product Distribution (PD)	Includes distribution of Level 1b, Level 2+, and derived products to user portals while addressing interfaces with the user for accessing GOES data. The primary user portals include the GOES-R satellite series (e.g., for uplink of Global Re-Broadcast (GRB)) NOAA's National Weather Service (NWS).
Product Extent Qualifier	Provides product specific limitations to the solar zenith angle coverage of the products over which a product can be computed. The use of the term quantitative in any of the product extent qualifiers defines the generation of the product while meeting the threshold product measurement accuracy performance in that region, whereas the use of qualitative in any of the product extent qualifiers defines the generation of the product without meeting the threshold product measurement accuracy performance requirements. For CONUS (3000 km x 5000 km) products and mesoscale (1000 km x 1000 km) products, the product will be computed within the CONUS-sized measurement area and the mesoscale-sized measurement area that falls within the product qualifier limitations.
Product Generation (PG)	Includes algorithm support, processed raw data, processing to Level 1b (including calibration, navigation and registration), generation of the data for rebroadcast and for higher level data creation including operational derived products. The government will provide the necessary science algorithms for the generation of user products.
Product Geographic Coverage / Conditions	The size of the area that must be observed in the revisit time in order to complete the product; in the case of CONUS, it also specifies a particular area as well as location. The GOES-R products will be calculated for the coverage areas of the L1b data provided by the instrument, subject to the Product Qualifiers.
Product Horizontal/ Angular Resolution	Product Horizontal/Angular Resolution is defined for the Space and Solar Products only and is nominally the equivalent of the Product Horizontal Resolution.
Product Horizontal Resolution	The finest horizontal spatial element of the product measured at nadir. The GOES-R System will not spatially degrade the product horizontal resolution beyond that of the L1b data of the earth-looking instruments when making Level 2 and higher products, except in the generation of GOES-R products with coarser horizontal resolution.

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Term	Definition
Product Long-Term Stability	The deviation in accuracy over a period of time, typically the lifetime of the mission, unless otherwise specified in the product long-term stability values.
Product Mapping Accuracy (Product Navigation)	The accuracy of the registration of the collected data to the appropriate Earth or other reference frame. The GOES-R System will geolocate the GOES-R series L1b data (which meets instrument image navigation and registration requirement for earth-looking instruments) to comply with the product mapping accuracy requirements.
Product Measurement Accuracy (categorical products)	The accuracy of the product, defined in terms of the percentage of correct classification over a statistically significant population of data. (CCR 1528)
Product Measurement Accuracy (non-categorical products)	The systematic difference or bias between the derived parameter and ground truth. It is determined by computing the absolute value of the average of differences between the derived parameter and truth over a statistically significant population of data such that the magnitude of the random error is negligible relative to the magnitude of the systematic error. (CCR 1528)
Product Measurement Precision (categorical products)	For products that are classified into three or more categories, the precision is defined as the standard deviation of the misclassification error (number of bins away from the correct bin) over a statistically significant population of data. For products that are classified into two categories, this measure is not applicable. (CCR 1528)
Product Measurement Precision (non-categorical products)	The one-sigma standard deviation of the differences between the derived parameters and ground truth over the same population of data used to compute the product measurement accuracy. (CCR 1528)
Product Measurement Range	The range from the minimum to the maximum values over which the product will be measured.
Product Option	Indicates product or product parameters that are part of the contract options.
Product Orthogonality / Coverage	(Space and Solar Products only) The equivalent of the Product Geographic Coverage.
Product Pointing/ Mapping Accuracy	(Space and Solar Products only) The equivalent of Product Mapping Accuracy.
Product Pointing Knowledge / Mapping Uncertainty	(Space and Solar Products only) The knowledge of the line of sight of the space and solar instruments.
Product Refresh Rate/Coverage Time	The time between the completion of the nth update of the product and the completion of the (n+1)th update of the same product for the user. The GOES-R baseline product tables list refresh times for products. However, ABI data may be produced more frequently than the listed times, particularly due to the different scan modes of ABI. Products that rely on surface observations with product refreshes that are long, compared to the instrument image refresh times, benefit from observations without obscurations caused by clouds. The product refresh is often longer than the coverage time associated with the data collection, as with the GLM in which case the longer of the two is listed for this composite parameter. (CCR 1294, 1528)

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Term	Definition
Product Reproducibility	The degree to which the information is replicated, subject to an acceptable degree of imprecision as defined in the GS F&PS
Product Set #	Subset of the total GOES-R products, indicating which products are required for implementation at certain delivery milestones.
Product Statistics Qualifier	Provides product specific limitations, where applicable, to the product generation scene statistics under which the product measurement accuracies apply.
Product Vertical Resolution	Defined as layering averaging of the resultant samples corresponding to different heights in the atmosphere; where only one vertical sample is collected, no layer averaging is needed. The GOES-R System will produce the required vertical layering of the GOES-R products employing external data sources if needed. For typical imaging products, the vertical layering is typically over the total column.
Program Material Review Board	The formal Contractor board established for the purpose of reviewing, evaluating, and disposing of specific nonconforming materials, supplies or services, and for ensuring the implementation and accomplishment of corrective action to preclude recurrence.
Program track mode	An open-loop antenna control mode in which the antenna system is driven to follow a sequence of angles in a specific time order, calculated from acquisition data stored in the Antenna Control Unit. (CCR 1528)
Protoflight Testing	See Hardware.
Prototype Testing	See Hardware.
Proxy data	Customized test input and output data files, developed from real data and modified to represent input for a specific product generation algorithm.
Pseudo-telemetry	New telemetry point(s) that are generated/derived on the ground by combining or manipulating (through the use of mathematical instruction) one or more satellite telemetry points. These are created for ease of trending and analysis.
Pull	Mode for data access in response to a user request where a user (or user environment, if automated) is notified of availability of data for pickup from a specific distribution server. Once notified, the user (or user environment) initiates the transfer of the data from a distribution server
Push	Mode for data access in compliance with a pre-established user agreement where a distribution server automatically sends data to a user environment without prior notification to the user.
Qualification	See Design Qualification Tests.
Qualitative Risk Analysis	A subjective assessment of risks to determine: which risk events warrant a response; the probability and impact of all risks; the probability of each risk occurring based on past experience; the impact of each risk; which risks to analyze more fully using quantification; and the overall risk ranking for the program.

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Quantitative Risk Analysis	A numerical analysis of the probability and consequences (amount at stake or impacts) of the highest risks on the program. Risk quantification involves the following activities: • Further investigation into the highest risks on the program • Determination of the type of probability distribution that will be used – e.g., triangular, normal, beta, uniform, or log normal distribution. • Interviewing experts (data elicitation) • Sensitivity analysis – determine which risks have the most impact on the program • Monte Carlo analysis (computer based simulation) • Decision Tree analysis
Radiometric Calibration	The process of converting raw instrument detector measurements (counts) into standardized science data units (e.g. radiance). (CCR 1528)
Random errors	Unrepeatable statistical fluctuations in the measured data due to the precision limitations of the measurement.
Raw Data	Data in CCSDS transfer frame packets, as received from a satellite.
Real-time	The designation applied to the propagation of data through a system with minimum, deterministic, time delays.
Recapitalization	The rebuild and selected upgrade of currently fielded systems to ensure operational readiness • Rebuild - Restores system to a like-new condition in appearance, performance, and life expectancy; inserts new technology to improve reliability and maintainability • Selected Upgrade - Adds capability improvements to address capability shortcomings.
Receive chain	All equipment required to receive a signal from a satellite, from the antenna through the IF switch. (CCR 1528)
Red Limit	The value of a telemetry point requiring action when the point is either greater than or less than, depending on the point monitored the stored limit value.
Redundancy	The use of more than one independent means of accomplishing a given function.
Redundant Structural Members	Structural members are classified as redundant when their failure would result in the redistribution of applied loads to other structural members without loss of structural integrity.
Reference	Information that is non-binding on the contractor
Relative Time Command (RTC)	A command for which its execution time is specified as a time interval after a preceding command.
Relative Time Command Sequence (RTCS)	A named sequence of Relative Timed Commands, which perform a specific function.

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Term	Definition
Relative Time Sequence (RTS)	See Relative Time Command Sequence
Relative Time Sequence Buffer (RTSB)	An allocated memory area used to store the named Relative Command Sequences.
Relative Time Sequences Command (RTSC)	Sequences of commands that can be sent from the on-board processor following a pre-defined sequence with execution times relative when the previous command in the sequence was issued.
Release (Ground Segment)	A defined Ground Segment capability level, installed and verified at its operational site(s) that is associated with a specific milestone or date. Each release augments the capabilities of previous releases.
Reliability Event	An instance that causes the lowering of the segment's or system's reliability.
Remote (Ground Segment)	Regarding the Ground Segment, indicates a location or connection that is external to the distributed Ground Segment.
Repair	A corrective maintenance action performed as a result of a failure so as to restore an item to operate within specified limits.
Requirement	A statement of a function to be performed, a performance level to be achieved, or an interface to be met.
Requirements Management	A systematic process for establishing and maintaining control and evaluation of all GOES-R requirements.
Residual Risk	The element of a risk remaining after a risk has been mitigated.
Resolution	Ability to distinguish two adjacent features in the spectral, spatial or temporal domain.
Resource Tracking	The activity of tracking and maintaining technical resource allocations, estimates, and margins for system elements. Technical resources include mass, power, volume, area, pointing accuracy and knowledge, link margin, computers, communications, data bases and others.
Review	A formal or informal presentation of material with a defined agenda, objective, participants, and success criteria.
Review documents	Documents in this category shall be received by the GOES R Project within the time period specified, and will be subject to evaluation. These documents shall be implemented upon issuance unless otherwise noted. However, when an evaluation reveals inadequacies in a document, the Contractor shall correct the document as required.
Rework	Return for completion of operations (complete to drawing). The article shall be reprocessed to conform to the original specifications or drawings.
Risk	The combination of the likelihood that a program will experience an uncertain event and the consequence of the event, were it to occur. Note: Positive-outcome events and/or extremely low probability/impact-outcome events can similarly be considered. Any circumstance or situation that impacts; public safety, program controlled cost; program controlled schedule; or major mission objectives, and for which an acceptable resolution is deemed unlikely without focused management effort.

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Term	Definition
Risk Action Plan (Risk Mitigation Plan)	A formal plan to determine the action needed to address a risk. In the GOES-R Series Program Risk Management database, each action plan will be entered as a data item.
Risk Analysis	The activity of identifying risks or adverse events, and the analysis of the probability of occurrence and the consequence of occurrence of these events.
Risk Categories	Sometimes referred to as sources of risk or common categories of risks experienced by an organization or program. The categories help analyze and identify risks on each program. Some categories of risks are: • Technical risks (e.g., operations or performance) • Program management risks • Organizational risks • External risks (e.g., legal or environmental)
Risk Exposure	The qualitative combination of Likelihood (Probability) and Consequence (Impact) components of a risk using a Risk Rating Matrix to prioritize risk to a program.
Risk Factors/Risk Attributes	The major characteristics of the risk that include: • Probability that a risk will occur or anticipated frequency of risk event (how often) • Range of possible outcomes (what) (impact, severity, or amount at stake) • Anticipated timing or timeframe (when) • Expected Value (EV) (How much money?) or Expected Utility (EU) (What non-monetary value?).
Risk Fallback Plan	A formal plan devised to identify specific action to be taken if the Risk Action Plan (Risk Mitigation Plan) is not effective. In the GOES-R Series Program Risk Management database, each fallback plan will be entered as a data item.
Risk Identification	A risk management activity that determines which uncertain events or conditions might affect the program and documenting their characteristics
Risk Handling/ Action Planning	Determining approaches that make the negative risk smaller or eliminate it entirely, as well as finding ways to make opportunities more likely or greater in benefit. This process involves: • Strategies agreed upon in advance by all parties • Primary backup strategies are selected • Risks assigned to individuals, the Risk Owner, to take responsibility • Strategies reviewed over the life of the program for appropriateness and effectiveness • Triggers notifying the Risk Owner to take pre-planned, pre-approved action

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Term	Definition
Risk Management	A process involving the following six steps: • Risk Management Planning • Risk Identification • Risk Assessment and Analysis (Qualitative and Quantitative) • Risk Handling/Action • Risk Tracking and Control • Risk Documentation and Communication
Risk Management Board (RMB)	Management board that is the official forum for formal evaluation, deliberation, classification and control of program risks.
Risk Originator	The individual that first identifies and records the risk in the Risk Management database.
Risk Owner	An individual assigned by the Program or Project Manager through the RMB to implement action/ mitigation plan activities needed to close or accept a specific risk with the authority and resources to action on a pre-approved plan once triggers are reached.
Risk Rating Matrix (Risk Matrix)	A matrix used to qualitatively sort or rate risks so a determination can be made as to which risks will move on through the risk process. Use of this matrix results in a more consistent evaluation of low, medium, or high making the risk rating process more repeatable across the program.
Risk Research	An extension of the Risk Identification in the case where specific research is warranted before completing the risk identification step and deciding between specific risk handling approaches. The risk action plan in the RM database then takes the form of a research plan with a commitment for the research report to be delivered by a specific date with other specific triggers and metrics also required.
Risk Response Strategies	Activities needed to close or accept a specific risk. These strategies also referred to as risk action approaches involve developing options and determining actions to address the risk. This may include changing the planned approach to completing the objectives – e.g., changes to the Work Breakdown Structure (WBS), schedule, or budget. In each case, communication of risks and strategies is necessary as part of the risk handling/action planning. These strategies are documented in the risk action plan and the risk database. The strategies include: • Research (part of the identify & analysis process) • Watch (part of the identify & analysis process) • Eliminate (Risk Avoidance) • Mitigation (Risk Control) • Acceptance • Transfer
Risk Reduction	The activities performed to reduce the likelihood of a risk occurring, or the consequence should the risk occur, or both.

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Term	Definition
Risk Tolerance	The amount of risk that is acceptable (tolerance level). For example: "a risk that affects our reputation will not be tolerated", or "a risk of a two week delay is okay, but nothing more."
Risk Triggers	The early warning signs or indirect manifestations (trends) for each risk on a program that indicate action needs to be taken. Risk triggers are part of the risk handling/action plan providing the "go-ahead" for implementing the pre-approved action plan.
R-squared (Ground Segment)	Statistical measure of how well a regression line approximates real data points, an r-squared of 1.0 (100%) indicates a perfect fit. The formula for r is: r(x, y) = [cov(x,y)]/[stddev(x) * stddev(y)].
Sample	The data within the smallest discrete measurement.
Satellite	The orbital system comprising the spacecraft bus, instruments, and any other payloads.
Satellite Failure	Occurs when one of the primary instruments fails to meet the specified performance required to produce its mission criticality level 1 products. (TBR).
Scalability	The ability of a hardware or software system to continue to function according to original specifications when it is enlarged (e.g., in terms of processing, storage, or throughput capacity) and to take performance advantage of the increase.
Scanline	Refers to any line of pixels that extends in an East-West direction across the Sun or space in the format of GOES EXIS data. *(CCR 3020)*
Segment	A major product, service, or facility of the system. For GOES-R Program, two segments are defined: Ground Segment and Space Segment.
Sensor Unit	Refers to the unit that contains the optics when pertaining to the instrument.
Service Request	Any type of request for information or service including requests for products.
Service Response	A response to the customer regarding a service request.
Shall	Use of this imperative word in a written statement designates a requirement.
Shall Allow (Ground Segment)	See "Shall be capable"
Shall be capable (Ground Segment)	The term shall be interpreted to mean that the function, service or capacity described is a mandatory requirement for the GS, but that the capability, service or capacity may not necessarily be exercised continuously (i.e., event driven, operator selected, operator initiated, etc.)
Shall enable (Ground Segment)	See "Shall be capable"
Shall have the capability (Ground Segment)	See "Shall be capable"
Shall permit (Ground Segment)	See "Shall be capable"

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Term	Definition
Shall provide the capability (Ground Segment)	See "Shall be capable"
Should	Designates a desired level of performance the government would like the contractor to strive towards achieving and is synonymous with the term "goal".
Signal track mode	A closed-loop antenna control mode in which the antenna boresight pointing is optimized to position the antenna with respect to the desired satellite or stellar radio source by monitoring the signal strength via a signal track receiver. (CCR 1528)
Simulated data	Data generated to mimic the characteristics and content of real data.
Single Point Failure	A failure of a hardware or software element with no redundancy.
Single string of equipment	A system capable of performing all required functionality from data input through data output.
Software	Computer programs, procedures, rules, and associated documentation and data pertaining to the development and operation of a computer system. Software also includes Commercial Off-the-Shelf (COTS), Government Off-the-Shelf (GOTS), Modified Off-the-Shelf (MOTS), embedded software, reuse, heritage, legacy, auto generated code, firmware (instructions, logic, or associated data loaded into programmable devices (e.g. ASICs and FPGAs), and open source software components.
Space and Launch Segment Availability	The probability that the Space and Launch Segment can be successfully used for any specified mission over the stated period of time; this is a probability of success.
Space Packet	Protocol Data Units that form the CCSDS packets
Space Segment	The Space Segment (SS) consists of a constellation of geostationary satellites and required pre-launch ground support equipment.
Space Weather	Effect of solar particles, fields, and flux on the Earth's environment. *(CCR 3020)*
Spacewire	SpaceWire is a standard for high-speed links and networks for use onboard spacecraft, easing the interconnection of: sensors, mass-memories, processing units, and downlink telemetry sub-systems. SpaceWire equipment is connected together using SpaceWire links which are: serial, high-speed (2 Mbits/sec to 200 Mbits/sec), bi-directional, and full-duplex. Application information is sent along a SpaceWire link in discrete packets. Control and time information can also be sent along SpaceWire links
Spacecraft	For GOES-R, the spacecraft consists of the spacecraft bus, auxiliary communication services payloads, and Magnetometer.
Spacecraft Bus	The spacecraft bus consists of the necessary hardware and software required to accommodate the instruments and auxiliary communication services payloads.
Special Operation	Activity to support maintenance of satellite functions or engineering and science investigation outside of normal, routinely scheduled operations.

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Term	Definition
Specification	A detailed requirements or design document that provides a verification basis for a system or system element.
State	Condition of a system with respect to circumstances in the mission.
Stationkeeping	On-orbit spacecraft maneuver that corrects for orbital drifts.
Store (v.)	Retain and maintain data and information for retrieval. Does not imply permanent archive.
Stored Commands	Commands that are stored in the on-board computers RAM that are executed at a specified time. Each stored command contains a either an absolute or relative time tag that indicates when the command will be executed.
Subscription	A standing request for data or notification of data availability defined by user-specified criteria, to be delivered on a continuous or conditional basis.
Synthetic Data	Any kind of input or output data that is created to represent GOES-R data. Both proxy data and simulated data are types of synthetic data.
System	An integrated set of elements, segments, and/or subsystems that accomplish a defined objective. For the GOES-R Program, the GOES-R System represents the combined Space Segment and Ground Segment capabilities.
System Concept	The overall system technical approach, the architecture, and system operations concept developed to satisfy the system requirements document and user concept of operations.
System of Interest	The identified part of the system hierarchy, whether a part, assembly, or subsystem, that is assigned to the engineering team.
System Performance and Operations Test (SPOT)	Refers to the period, which consists mainly of detailed verification and validation (V&V) of each aspect of flight and ground system performance, through V&V of: spacecraft performance metrics, bus subsystems and the end user products.
Systematic Errors	Consistently reproducible inaccuracies in the measured data due to the precision limitations of the measurement and bias.
Systems Engineering Life-Cycle	The systems engineering life cycle consists of three major stages: Concept Studies, Program Definition and Risk Reduction (PDRR), and Acquisition and Operations (A&O). Disposal of a satellite after its life is considered part of operations. (CCR 1528)
Systems Engineering Management Plan (SEMP)	An implementation plan for the performance of systems engineering functions and the development of systems engineering products. This plan identifies what, when, where, by whom, and how the functions are performed. It specifies the schedule for the development, and the resources required.
Tailored product	Any product modified to be different from its GOES-R required definition (e.g., sectorization, another format). A tailored product is no longer a GOES-R product.
Tailoring	The modification of a product to a form other than one of the standard forms produced by the GOES-R program, as defined and agreed in a Ground Segment IRD. OSDPD is responsible for tailoring GOES products.

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Term	Definition
Technical Performance Measurement System	The Technical Performance Measurement System is the system that will be used to track actual versus planned progress of critical performance and technical metrics.
Technology Refresh	Upgrade or replacement of ground-based equipment and system support software to reflect advances in technology occurring throughout the mission lifecycle.
Temperature Cycle	A transition from some initial temperature condition to temperature stabilization at one extreme and then to temperature stabilization at the opposite extreme and returning to the initial temperature condition.
Temporal Coverage Qualifier	Provides product-specific limitations to the solar zenith angle coverage of the products. When the term Day is used in the temporal qualifier, Day is defined as solar zenith angles less than or equal to 96 degrees. When the term Night is used in the temporal qualifier, Night is defined as solar zenith angles greater than 96 degrees and includes the period of twilight.
Theoretical Available Observable Data	Data collected during time periods when the instrument theoretically should be able to collect useful data
Thermal Balance Test	A test conducted to verify the adequacy of the thermal model, the adequacy of the thermal design, and the capability of the thermal control system to maintain thermal conditions within established mission limits.
Thermal-Vacuum Test	A test conducted to demonstrate the capability of the test item to operate satisfactorily in vacuum at temperatures based on those expected for the mission. The test, including the gradient shifts induced by cycling between temperature extremes, can also uncover latent defects in design, parts, and workmanship.
Tiger Team	A group of experts assigned to investigate and/or solve technical or systemic problems. *(CCR 3020)*
TMON Rule	A TMON Rule defines the action to be taken when a red limit violation is detected.
To Be Determined (TBD)	Information that is currently unknown or uncertain and must be proposed by the contractor.
To Be Reviewed (TBR)	Statements, requirements, or values that are subject to review by the Government and the contractor. The requirement applies as written, and "TBR" indicates that the value may change upon review. Contractor may review and suggest a modified value and rationale for TBR values.
To Be Supplied (TBS)	Information, data, or details to be supplied at a future time by the government. The government will provide a date or milestone to resolve each TBS requirement.
Total Mass Loss (TML)	Total mass of material outgassed from a specimen that is maintained at a specified constant temperature and operating pressure for a specified time.
Tracking accuracy	The accuracy with which the antenna can maintain pointing at a satellite or a star (see also Pointing accuracy). (CCR 1528)
Transfer Orbit	The sequence of events that transpires to establish the GOES-R series satellite on-station after the GOES-R series satellite has separated from the launch vehicle. *(CCR 3020))*

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Term	Definition
Transmission rate	The total downlink or uplink data rate that includes the rate of observation data as well as coding or other overhead.
Transmit chain	All equipment required to uplink a signal to a satellite, from the Intermediate Frequency switch through the output of the antenna. (CCR 1528)
Two Step Command	A command that requires a confirmation from the Space Operations Control Center (SOCC) once the command is initiated.
Unique Payload Services	A collection of three GOES communication services: HRIT/EMWIN/ (formerly known as EMWIN/LRIT); DCS; and SAR. (CCR 1528)
Unit	A functional subdivision of a subsystem and generally a self-contained combination of items performing a function necessary for the subsystem's operation. Examples are electronics unit and sensor unit.
User	A class of organizations that acquire GOES-R data and products to support a mission, environmental assessment, or scientific research.
User, Authorized	A set of users approved to receive GOES-R-distributed end-products. Authorization is granted through a user access form and approval by OSDPD through SPSRB (Satellite Product & Services Review Board).
User, CLASS	Any user with access to the CLASS archive repository for GOES products stored therein. Includes retrospective and other users, whether authorized or not.
User, GRB	Any user with the ability to receive GOES Rebroadcast Level 1b product via space-ground link. A GRB user does not have to be an authorized user. Their optional interaction back to GOES-R is to report reception problems or other GRB performance observations. (CCR 1528)
User, eGVAR	Any user receiving GOES-R information via GOES legacy broadcast. An eGVAR user does not have to be an authorized user. The Ground Segment interface is to the GOES-N ground segment and does not include the broadcast interface.
User Community	A general term describing the aggregate of GOES-R users composed of the subset of rebroadcast users, data subscription users, data products subscription users, retrospective users, and communication systems data users.
User Distribution Point	The Ground Segment interface from which GOES-R products and information are distributed by the Ground Segment.
User Service Functionality	Includes the software and hardware of the system that provides the capacity of the system to interface with the user through the Mission Management Functionality.
Validation	The process of determining that the deliverable item satisfies its intended use in its intended environment.
Validation Basis	The basis for validation is a set of requirements that provide the success criteria for a system or system element. The validation basis requirements are provided in the program Concept of Operations (CONOPS), an applicable document.

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Variance	An authorization for temporary relief in advance from a specific requirement and is requested during the formulation/planning/design stages of a program/project operation to address expected situations.
Verification	The process of determining that the deliverable item meets specified requirements, using methods such as test, demonstration, analysis, and inspection.
Verification Basis	The basis of verification is a description and definition, for each requirement, of the method used to verify that requirement has been achieved, e.g. by test, analysis, design, inspection and/or a combination of methods**.**
Verification by Analysis	The use of mathematical models and analytical techniques to predict the suitability of design and compliance with a requirement, when the subject item is not available or suitable for testing.
Verification by Demonstration	The observation of an item in use under specific, controlled conditions in order to determine if it satisfies a requirement, without the detailed data collection and analysis that is part of testing.
Verification by Inspection	The visual examination of an item in order to determine if it satisfies a requirement.
Verification by Test	The use of an item under specific, controlled conditions in order to obtain detailed data and/or information that can be evaluated to determine if the item satisfies a requirement.
Waiver	A known departure from requirements identified after manufacturing or development. Requires government approval.
	Alternate definition - Granted use or acceptance of an article that does not meet the specified requirements after manufacture. Requires government approval. *(CCR 3020)*
Watch Item	An issue or concern considered for elevation to a risk. If the issue is not validated as a risk, no immediate action is taken.
West Geostationary Orbit Location	137 degrees West Longitude.
Will	The term "will" designates a statement of fact or intention of the government and is not to be interpreted as a contractor requirement.
Witness	A personal, on-the-scene observation of a performance assurance activity with the purpose of verifying compliance with project requirements
Yaw Flip	An attitude maneuver of the spacecraft 180 degrees about the nadir (yaw) axis that reverses the signs of pitch and roll relative to the orbit frame while maintaining yaw pointing at nadir.
	Alternative definition - An on-orbit maneuver that rotates the spacecraft 180º about the spacecraft z axis (yaw). The net effect reverses the signs of the roll and pitch axes while maintaining yaw pointing at nadir.*(CCR 3020)*

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3.0   Acronym List

Acronyms are formed using the initial letters of words or word parts in a phrase or name. Acronyms are usually pronounced in a way that is distinct from that of the full forms for which they stand: as the names of the individual letters.

Common acronyms are in general not included in this list. *(CCR 3020)*

Acronym	Definition
%AC	Percent Area Coverage
4GL	Fourth Generation Language
6-DOF	Six degrees of freedom
8-PSK	Eight Phase Shift Keying
A	
A&A	Assessment & Authorization
A&O	Acquisition and Operations
A&R	Applicable and Reference
A&S	Analysis and Simulation
Aa	Availability achieved
AA	Archive and Access
AA	Assistant Administrator (NOAA)
AA	Associate Administrator (NASA)
AAA	Authentication, Authorization and Accounting
AAS	American Astronautical Society
ASS	Antenna Administrative Server
AATSR	Advanced Along-Track Scanning Radiometer
AAWDS	ABI AWG/UW Data Set

Acronym	Definition
ABI	Advanced Baseline Imager
ABIE	Advanced Baseline Imager Emulator
ABL	Allocated Baseline
ABPL	As-Built Parts List
ABR	Area Border Router
AC	Above Clouds
AC	Access Control (security)
AC	Accomplishment Criteria
AC	Active Cooler
AC	Actual Cost
AC	Area Coverage
ACA	Associate Contractor Agreement
ACC	Attitude Control Console
ACCS	Accounting Code Classification Structure
ACE	Advanced Correlation Engine
ACE	Advanced Composition Explorer
ACH	ABI Cloud Height
ACHA	ABI Cloud Height Algorithm

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Acronym	Definition
ACHE	Alternating Current Heater Electronics
ACL	Access Control List
ACM	Advanced Baseline Imager (ABI) Cloud Mask
ACO	Administrative Contracting Officer
ACP	Access Control Plan
ACRN	Accounting Classification Reference Number
ACS	Attitude Control System
ACSPO	Advanced Clear-Sky Processor for Oceans
ACT	ABI Cloud Type
ACT	Activation and Characterization Test
ACTD	Advanced Concept Technology Demonstration
ACTE	Auxiliary Communication Test Equipment
ACU	Antenna Control Unit
ACWP	Actual Cost of Work Performed
ACWS	Actual Cost of Work Scheduled
ADAM	Automatic Dynamic Analysis of Mechanical Systems (MSC Software)
ADC	Analog to Digital Converter
ADD	Algorithm Description Document
ADDE	Abstract Data Distribution Environment (McIDAS data server)
ADEB	Algorithm Development Executive Board
ADIS	Angle Detecting Inclined Sensor
ADL	AER Development Lab
ADM	Aerosol Detection Product
ADMP	Algorithm Development Management Plan
ADO	Algorithm Development Organization
ADP	Analog Detection Product

Acronym	Definition
ADPL	As-Delivered Parts List
ADR	Algorithm Design Review
ADRR	Algorithm Design Review Report
ADRS	Ancillary Data Relay System
ADT	Advanced Dvorak Technique
AE	Autumnal Equinox
AECS	Automated Entry Control System
AEHF	Advanced Extremely High Frequency
AEL	Active Event List
AER	Atmospheric & Environmental Research Inc.
AERI	Atmospheric Emitted Radiance Interferometer
AERONET	AErosol RObotics NETwork
AEROSE	Aerosol and Ocean Science Expedition
AES	Advanced Encryption Standard
AES	Automated Export System
AES/SED	AES/ Shipper's Export Declaration
AET	Aerospace Engineering Technician
AET	Antenna Element Tracking
AETD	Applied Engineering and Technology Directorate
AF	Automation Framework
AF	Assured Forwarding
AF	award fee
AFM	Anti-alias Filter Module
AFRB	Award Fee Review Board
AFRL	Air Force Research Laboratory
AFSCM/ AFSPCMAN	Air Force Space Command Manual
AFSCN	Air Force Space Command Network

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Acronym	Definition
AFSPC	Air Force Space Command
AFWA	Air Force Weather Agency
AG	As Generated
AGE	Aerospace Ground Equipment
AGI	Analytical Graphics, Inc
AGM	Annual Guidance Memorandum
AGMA	American Gear Manufacturers Association
AGO	Acquisition and Grants Office (NOAA)
AGS	Alaska Ground System
AH	Authorization Header
AHI	Advanced Himawari Imager
AI	Availability - Inherent
AI&T	Assembly, Integration, and Test
AIAA	American Institute of Aeronautics & Astronautics
AIADD	Algorithm Interface and Ancillary Data Description
AIM	ABI Ice Motion
AIP	Aerosol Imagery Products
AIR	Action Item Review
AIRS	Atmospheric Infrared Sounder
AIS	Automated Instrument Scheduling
AISC	American Institute of Steel Construction
AIT	Algorithm Integration Team
AIT	Assembly Integration and Test
AITA	ABI ice thickness and age
AITP	Algorithm Implementation and Test Plan
AJAX	Asynchronous JavaScript And XML
ALC	Automatic/Auto-Level Control

Acronym	Definition
ALI	EO-1 Advanced Land Imager
AlloIDs	Allocation Identifications
ALT	Accelerated Life Testing
AMCS	Articulation Motor Control System
AMM	Analog Magnetometer Module
AMO	Air Mass Zero
AMOS	Automatic Meteorological Observing Station
AMS	Agent Management Services
AMS	American Meteorological Society
AMSC	American Mobile Satellite Corporation
AMSR-E	Advanced Microwave Scanning Radiometer - Earth Observing System
AMSU	Advanced Microwave Sounding Unit
AMV	Atmospheric Motion Vectors
ANCF	AWIPS Network Control Facility
AND	Alpha-Numeric Display (part of SDGUD suite)
ANGEN	Analytic Generation of Spectral Response
ANSI	American National Standards Institute
ANSI/EIA	ANSI / Electronics Industry Associates
ANSI/ISO	ANSI/ International Organization of Standards
ANT	Antenna/Antenna Systems
ANTC	Antenna Station Control
AO	Active Object
AO	Active Operational
AO	Announcement of Opportunity
AO	Authorizing Official
Ao	Availability (Operational)
AoA	Analysis of Alternatives

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Acronym	Definition
AOC	Active Object Class
AOD	Aerosol Optical Depth
AODR	Authorizing Official's Designated Representative
AODT	Advanced Objective Dvorak Technique
AOL	Atmosphere Oceans and Land
AOP	Annual Operating Plan
AOS	Acquisition of Signal
AOS	Advanced Orbiting System (CCSDS)
AP	Algorithm Package
AP	Advanced Platform
APA	Allowance for Program Adjustment
API	Application (Program) Programming Interface
APID	Application Process Identifier
APM	Assistant Project Manager
APO	Annual Operating Plan
APPF	Astrotech Payload Processing Facility
APPL	Academy of Program and Project Leadership
APS	Active Pixel Sensor
APS	Aerosol Particle Size
AR	Acceptance Review
AR	As required
ARB	Acquisition Review Board
ARC	Ames Research Center
ARES	Applied Research and Engineering Sciences
ARM	Atmospheric Radiation Measurement
ART	Anomaly Reporting and Tracking
ARTCC	Air Route Traffic Control Center

Acronym	Definition
ARTS	ASRC Research and Technology Solutions
AS	Advanced Server
AS	Antenna System
ASA	Assistant Secretary for Administration
ASCII	American Standard Code for Information Interchange
ASCOUTS	A2100 Satellite Check Out and Universal Test System
ASCR	Antenna Station Certification Review
ASD	Acceleration Spectral Density
ASDP	Alliance for Supplier Diversity Professionals
ASDR	AS Delivery Review
ASE	Asset Sustainability Edition
ASI	Application Specific Input
ASIC	Application Specific Integrated Circuit
ASIS	Antenna System Interface Simulator
ASIST	Advanced Spacecraft Integration and Systems Test
ASM	Acquisition Strategy Meeting
ASN	Autonomous System Number
ASO	Application Specific Output
ASO	Astrotech
ASOC	Atlas Spaceflight Operations Center
ASOS	Automated Surface Observing System
ASP	Attitude Sensor Package
ASPD	Assistant System Program Director
ASQ	American Society for Quality
ASQC	American Society for Quality Control
ASRC	Arctic Slope Regional Corporation

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Acronym	Definition
ASRS	Antenna System Requirements Specification
AST	All Software Testbed
ASTER	Advanced Spaceborne Thermal Emission and Reflection radiometer (EOS)
ASTM	American Society for Testing and Materials
ASTMGT	Asset Management
ASU	Advanced Settings Utility
ASU	Arizona State University
ATBD	Algorithm Theoretical Basis Document
AT	Action Team
AT	Awareness and Training
ATC	Advanced Technology Center
ATC	Assurance Technology Corporation (SEISS)
ATCF	Air Traffic Control Association
ATCF	Automated Tropical Cyclone Forecast
ATD	Advanced Technology Devices
ATJM	Advanced Triple Junction with Monolithic Diode Solar Cell
ATK	Alliant Techsystems Incorporated
ATLO	Assembly, Test, and Launch Operations
ATM	Asynchronous Transfer Mode
ATO	Authority to Operate
ATP	Acceptance Test Procedure
ATP	Algorithm Test and Performance
ATP	Authority To Proceed
ATR	Alternative Technical Representatives
ATRR	Acceptance Test Readiness Review
ATS	Absolute Time Sequence

Acronym	Definition
AU	Astronomical Unit
AV	Anti-Virus
AVD	Active Vibration Damping
AVHRR	Advanced Very High Resolution Radiometer
AVI	Airborne Visible Imager
AVIRIS	NASA Airborne Visible/Infrared Imaging Spectrometer
AVVID	Architecture for Voice, Video and Integrated Data
AWA	Antenna Wing Assembly
AWE	Alert, Warning and Event
AWG	Algorithm Working Group
AWG	Arbitrary Waveform Generator
AWG	Algorithm Working Group
AWGConfig	Algorithm Working Group Configuration File
AWiFS	Advanced Wide Field Sensor
AWIPS	Advanced Weather Interactive Processing System
B	
B/L	Baseline
B/W	Black / White
BAA	Broad Agency Announcement
BAC	Budget At Completion
BAE	British Aerospace Engineering
BAT	Bench Acceptance Test
BB	Brassboard
BB	Blackbody
BB	Black Box
BBC	Bus Baseband Console
BCD	Binary Coded Decimal

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Acronym	Definition
Bc	Business Availability Center
BCD	Battery Charger / Discharger
BCH	Bose, Chaudhuri, and Hocquenghem error correcting code
BCN	Baseline Change Notice
BCP	Best Current Practice
BCR	Baseline Change Request
BCWP	Budgeted Cost of Work Performed
BCWS	Budgeted Cost of Work Scheduled
BDL	Boeing Development Lab
BDS	Baseline Data Set
BECO	Booster Engine Cut Off
BEI	Baseline Execution Index
BER	Bit Error Rate
BERB	Battery Enable Relay Box
BETA	Harris Proprietary Program
BFFC	Bit Flip Flush Cycles
BFM	Basic Fault Management
BGITF	Boeing Geospatial Imagery Transformation Network
BGP	Border Gateway Protocol
BGSE	Bus Ground Support Equipment
BIRT	Business Intelligence and Reporting Tool
BIT	Built In Test
BITE	Built In Test Equipment
BLM	Block Level Metadata
BM	Bi-Monthly
BMGR	Baseline Manager

Acronym	Definition
BNCF	Backup Network Control Facility (AWIPS)
BNL	Brookhaven National Laboratory
BOC	Break of Configuration
BOE	Basis of Estimate
BOL	Beginning Of Life
BOM	Bill of Materials
BOM	Business Operations Manual
bps	bits per second
BPSK	Bi/Binary Phase - Shift Keying
BRDF	Bi-Directional Reflectance Distribution Function
BRF	Body Reference Frame
BRTS	Biateration Ranging Transponder System
BSD	Berkeley Software Distribution
BSM	Business Service Management
BSP	Board Support Package
BSRN	Baseline Surface Radiation Network
BSS	Block Started by Symbol (GLM)
BSS	Boeing Space Systems
BT	Brightness Temperature
BTD	Brightness Temperature Difference
BTO	Business Technology Optimization
BTX	Balanced Technology Extended
BU	Business Unit
BUSIO	Bus Input / Output (FSW CSC)
BV	Brightness Value
BW	bandwidth
BW	Bi-weekly

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Acronym	Definition
C	
C	Capacity
C/NOFS	Communications/Navigation Outage Forecasting System
C&A	Certification and Accreditation
C&DH	Command and Data Handling
C&DM	Configuration and Data Management
C&I	Cloud & Imagery
C2	Command and Control
C3M	Command, Control, Communication and Monitoring
C3S	Command, Control, and Communications Segment
CA	Certificate Authority (Security Assessment & Authorization)/ Certification Agent
CA	Computer Associates
CA	Control Account
CA	Contract Award
CA/RA	Certificate Authority/Registration Authority
CAB	Corrective Action Board
CACO	Corporate Administrative Contracting Officer
CAC	Common Access Card
CAD	Computer-Aided Design
CAD	Contract Availability Date
CADCAM	Computer Aided Design Computer Aided Manufacturing
CADR/CADRe	Cost Analysis Data Requirement
CADU	Channel Access Data Unit
CADU	Coded Access Data Unit

Acronym	Definition
CAGE	Commercial and Government Entity
CAIV	Cost as an Independent Variable
CAL	Calibration
Cal/Val	Calibration and Validation
CALIOP	Cloud-Aerosol LIDAR with Orthogonal Polarization
CALIPSO	Cloud-Aerosol LIDAR and Infrared Pathfinder Satellite Observation Satellite
CAM	Certificate Authority Managers
CAM	Commerce Acquisition Manual (DOC)
CAM	Cost/Control Account Manager
CAMS	Configuration, Audit and Maintenance System
CAN	Controls Algorithm Notebook
CAP	Contractor Acquired Property
CAP	Control Account Plan
CAPE	Convective Available Potential Energy
CAPL	Capillary Pumped Looped Technology
CAR	Cal Anomaly Report
CAR	CVCT Anomaly Report
CAR	Commerce Acquisition Regulations (DOC)
CARD	Cost Analysis Requirements Document
CARD	Cost Analysis Requirement Data
CARR	Carr Astronautics
CART	Cloud and Radiation Testbed
CAS	Cost Accounting Standard
CASB	Cost Accounting Standards Board
CASE	Computer Aided Software Engineering
CATS	Common Anomaly Tracking System (CCR 1528)

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Acronym	Definition
CAVE	Clouds and Earth's Radiant Energy System (CERES) Atmospheric Radiation Measurement Program (ARM) Validation Experiment
Cba	Battery Actual Capacity
CBB	Capability Based Build
CBE	Current Best Estimate
CBHB	Critical Bus Heartbeat
CBIT	Continuous Built In Test
Cbr	Battery Rated Capacity
CBS	Composite Bench Structure
CBS	Commerce Business System
Cbsysa	Battery System Actual Capacity
Cbsysr	Battery System Rated Capacity
CBT	Computer Based Training
CBU	Consolidated Back Up (replaces RBU)
CC	Clear Case
CCA	Circuit Card Assembly
CCAFS	Cape Canaveral Air Force Station
CCAP	Cause and Corrective Action Plan
CCB	Configuration Control Board / Change Control Board
CCBD	Configuration Control Board Directive
CCC	Component Configuration Command
CCD	Charge Coupled Device
CCE	Cryocooler Control Electronics
CCF	Common Cause Failures
CCF	MSU's Coupled Cyclotron Facility
CCHP	Constant Conduction Heat Pipe

Acronym	Definition
CCL	Commerce Control List
CCL	OS/COMET Control Language
CCMDB	Change and Configuration Management Database
CCP	Contamination Control Plan
CCP	Common Control Provider
CCR	Center for Climatic Research (IES)
CCR	Central contractor Registry
CCR	Change Control Request
CCR	Channel to Channel Registration
CCR	Configuration Change Request
CCR	Contract Change Request (S/C, GLM)
CCRM	Continuous Cost Risk Management
CCSDS	Consultative Committee for Space Data Systems
CCTV	Closed Circuit Television
CCU	Control Client Utility
CD	Center Director
CD	Compact Disk
CD	Critical Design
CDA	Command and Data Acquisition
CDA	Command Data Acquisition
CDA	Controllable Drive Actuators
CDAS	Command and Data Acquisition Station
CDB	Component Data Base
CDD	Critical Design Document
CDDL	Common Development and Distribution License
CDF	Common Data Format
CDH	Command and Data Handling

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Acronym	Definition
CDL	Controlled Document List
CDMA	Code Division Multiple Access
CDO	Central Dense Overcast
CDR	Climate Data Record
CDR	Critical Design Review
CDRD	Contract Data Requirements Document
CDRL	Contract Data Requirements List
CDRR	Critical Design Review Report
CDS	Correlated Double Sampling
CDUA	Command Decryption Unit Assembly
CE	Chief Engineer
CE	Collaborative Environment
CEA	Center Export Administrator
CEC	Central Electronics Complex
CEE	Common Event Expression
CEE	Converged Enhanced Ethernet
CEOS	Committee on Earth Observation Satellites
CEP	Circular Equivalent Pointing
CEPS	Cloud Effective Particle Size
CEQ	Center for Environmental Quality
CER	Cost Estimating Relationships
CER	Cost-to Cost Estimating Relationship
CERES	Clouds and Earth's Radiant Energy System (CCR 1528)
CERT	Computer Emergency Readiness Team
CERT	Cost Estimation Reconciliation Team
CETS	Component Environmental Test Specification

Acronym	Definition
CF	Climate & Forecasts
CF	Customs Form
CF/FEP	Command Formatter/Front End Processor
CFE	Contractor-Furnished Equipment
CFI	Contractor Furnished Information
CFO	Chief Financial Officer
CFR	Code of Federal Regulation
CFSR	Contract Funds Status Report
CFY	Contract Fiscal Year
CG	Center of Gravity
CGI	Common Gateway Interface
CGMS	Coordination Group for Meteorological Satellites (CCR 1528)
CGSE	Communications Government Supplied Equipment
CHOP	Countermeasures Hands-On Program
CI	Configuration Item
CI	Controlled Interface
CI	Cooperative Institutes
CICS-NC	Cooperative Institute for Climate and Satellites
CIL	Critical Items List
CIM	Common Information Model
CIMMS	Cooperative Institute for Mesoscale Meteorological Studies (University of Oklahoma)
CIMOM	Common Information Model Object Manager
CIMSS	Cooperative Institute for Meteorological Satellite Studies
CIMU	Common Inertial Measurement Unit
CIO	Center Information Office (NASA)

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Acronym	Definition
CIO	Chief Information Officer
CIOSS	Cooperative Institute for Oceanographic Satellite Studies
CIP	Celestial Intermediate Pole
CIP	Critical Infrastructure Program
CIPS	Calibration, INR and Product Science
CIPS	Common Integrated Process Standard
CIRA	Cooperative Institute for Research in the Atmosphere [University of Colorado Lab]
CIRC	Computer Incident Response Centers
CIRES	Cooperative Institute for Research in Environmental Studies (Univ. of Colorado, Boulder)
CIRREF	Cirrus Reflectance Test
CIRT	Contractor Interim Response Team
CIS	Center for Internet Security
CITR	Commercial Information Technology Requirements
CITR	Commercial Interim Technology Requirements
CITRB	Commerce Information Technology Review Board (DOC)
CLASS	Comprehensive Large Array-data Stewardship System
CLAVR-x	Clouds from AVHRR - extended
CLCW	Command Link Control Word
CLFM	Component Level Fault Management
CLI	Command Line Interface
CLIN	Contract Line Item Number
CloudSat	Cloud Satellite

Acronym	Definition
CLTU	Command Link Transmission Unit
CM	Configuration Management
CM&O	Center Maintenance and Operations
CMAC	Cipher-based Message Authentication Code
CMART	Configuration Management and Anomaly Reporting & Tracking
CMC	Center Management Council (GSFC)
CMD	Command
CMD	Contract Management Division
CMDB	Configuration Management Data Base
CMDL	Climate Monitoring and Diagnostics Laboratory
CMDR	OS/COMET Commander Tool
CME	Coronal Mass Ejection(s)
CMF	Cost of Money Factors
CMI	Cloud and Moisture Imagery
CMI	Common Modeling Infrastructure
CMI	Crop Moisture Index
CMIP	Cloud and Moisture Imagery Product
CMIS	Conical-scanning Microwave Imager/Sounder
CML	Consolidated Material List
CMM	Capability Maturity Model®
CMMI	Capability Maturity Model Integration
CMO	Configuration Management Office
CMO	Configuration Management Officer (NASA)
CMORPHIR	Climate Prediction Center (CPC) Morphing algorithm with Infrared
CMP	Configuration Management Plan
CMP	Connectivity Management Processor

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Acronym	Definition
CMP	Center Real Property Master Plan
CMR	Command Receiver
CMS	Configuration Management System
CNA	Converged Network Adapter
CND	Could-Not-Duplicate
CNOFS	Communication/Navigation Outage Forecasting System
CNR	Clutter-to-Noise Ratio
CNSS	Committee on National Security Systems
CO	Contracting Officer
CO	Corporate Office
CoC	Chain of Custody
COD	Cloud Optical Depth
CODAR	Coastal Ocean Dynamic Application Radar
CoF	Construction of Facilities
COFR	Certificate of Flight Readiness
COGE	Cognizant Engineer
COI	Critical Operational Issue
COM	Cost of Money
COMET	Cooperative Program for Operational Meteorology, Education, and Training
COMM	Communications
COMS	Communication, Ocean & Meteorological Satellite of Korea
COMSEC	Communications Security
CONOPS	Concept of Operations
CONUS	Continental United States
CO	Corporate Office

Acronym	Definition
CODT	Custom Object Dump Tool
COOP	Continuity of Operations
COP-1	Communications Operation Procedure -1
COPS	Convectively and Orthographically-induced Precipitation Study
COPV	Composite Overwrapped Pressure Vessel
COR	Contracting Officer's Representative
CORBA	Common Object Request Broker Architecture
CORD	Cable Organizing and Routing Device
COREnet	Core Network
CORL	Consolidated Observational Requirement List
COS	Chief of Staff
CoS	Class of Service
CoS	Continuity of Service
COSI	Common Operating System Image
COSPAS	Cosmicheskaya Sistyema Poiska Avariynich Sudov (Space System for the Search of Vessels in Distress)
COSYSMO	Constructive Systems Engineering Cost Model
COTR	Contracting Officer's Technical Representative
COTS	Commercial Off-The-Shelf
COVE	Clouds and Earth's Radiant Energy System (CERES) Ocean Validation Experiment
CP	Certificate Policy
CP	Command Procedure
CP	Contingency Plan
CP	Critical Path
CPAF	Cost Plus Award Fee

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Acronym	Definition
CPB	Cost Performance Baseline
CPC	Climate Prediction Center
CPC	Computer Program Component
CPC-IRFREQ	Climate Prediction Center (CPC) Infrared Frequency Matching
CPCI	Conventional Peripheral Component Interconnect
CPCI	Compact Personal computer Interface
CPCI	Computer Program Configuration Item
CPD	Climate Prediction Center
CPE	Certified Principal Engineer (S/C, GLM)
CPE	Chief Project Engineer
CPFF	Cost Plus Fixed Fee
CPI	Cost Performance Index
CPIC	Capital Planning & Investment Control
CPIF	Cost Plus Incentive Fee
CPL	Consolidated Product List
CPL	Common Public License
CPL	Capillary Pumped Loop
CPLI	Critical Path Length Index
CPM	Central Property Management
CPM	Control and Power Module
CPM	Computer Program Module
CPMT	Command Procedure Message Text
CPR	Cost Performance Report
CPR	Contractor Performance Report
CPS	Cloud Particle Size
CPS	Customer Property System
CPSD	Cloud Particle Size Distribution

Acronym	Definition
CPSR	Contractor Purchasing System Review
CPSS	Core Propulsion Subsystem Simulator
CPT	Comprehensive Performance Test
CPU	Central Processing Unit
CQ	Clear Quest
CQCM	Cryogenic Quartz Crystal Microbalance
CR	Candidate Risk
CR	Change Request
CRAG	Contractor's Risk Assessment Guide
CRB	Change Review Board
CRC	Cyclic Redundancy Check
CRE	Certified Reliability Engineer
CREST	Cooperative Remote Sensing Science & Tech Center
CrIS	Cross-Track Infrared Sounder
CRL	Certificate Revocation List
CRM	Customer Relationship Management
CRM	Continuous Risk Management
CRN	Climate Reference Network
CRRES	Combined Release and Radiation Effects Satellite
CRT	Customer Response Team
CRT	Cloud Restoral Test
CRTM	Community Radiative Transfer Model
CRUD	Create, Read, Update, Delete
CRYOHP	Cryogenic Heat Pipe
CRYOTP	Cryogenic Two Phase
CRYPTO	Cryptography

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Acronym	Definition
CS	Chief Scientist
CS	Class Selector
CS	Clear Sky
CA	Common/Computer Software
CS	Consolidated Storage
CS	Conducted Susceptibility
CSA	Configuration Status Accounting
CSAM	Cyber-Security Assessment and Management
CSAR	Configuration Status Accounting Report
CSBM	Cell Sense and Bypass Module
CSBT	Clear Sky Brightness Test (CCR 1528)
CSC	Computer Software Component
CSCI	Computer Software Configuration Item
CSD	Computer Services Division
CSDGM	Content Standard for Digital Geospatial Metadata
CSE	Chief Systems Engineer
CSF	Command System Formatter
CSI	Customer Source Inspections
CSO	Chief Safety and Mission Assurance Officer
CSPA	Charge Sensitive Pre-Amplifier
CSRT	Clear Sky Restoral Test (Cloud Restoral test)
CSS	Coarse Sun Sensor
CSS	Common Support Services
CSU	Current Sensor Unit
CSU	Computer Software Unit
CSU	Channel service unit
CSWIT	Combined Software Integration and Test

Acronym	Definition
CT	Cross Track
CTC	Channel to Channel Co-registration
CTE	Coefficient of Thermal Expansion
CTC	Controlled Technology Coordinator
CTE	Critical Technology Element
CTG	Cost To Go
CTNI	CSCI Test Name Identifier
CTP	Command and Telemetry Processor
CTRN	CLASS Test Receipt Node
CTV	Compatibility Test Van
CUT	Code and Unit Test
CV	Cost Variance
CVCM	Calibration and Validation Coordination Manager
CVCM	Collected Volatile Condensable Mass/Material
CVCT	Calibration/Validation Coordination Team
CVE	Common Vulnerabilities & Exposures
CWBS	Contractor Work Breakdown Structure
CWG	Calibration Working Group
D	
D/L	Downlink
D&E	Design and Engineering
DA	Distribution amplifier
DAA	Deputy Assistant Administrator
DAA	Designated Approval Authority
DAAS	Deputy Assistant Administrator Systems
DAB	Data Archive Board (NESDIS)
DAC	Digital to Analog Converter (S/C, GLM)

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Acronym	Definition
DAC	Discretionary Access Control
DACA	Days after contract award
DACO	Defense Administrative Contract Officer
DADDS	DCS Alternate Data Distribution System
DAI	Developer Anomaly and Improvement
DAL	Data Accession List
DAMS	Data Acquisition and Monitoring Subsystem (DCS)
DANCE	Detailed ANalysis of Critical Events (GSP Planning)
DAO	Department of Commerce Administrative Order
DAP	Delivered Algorithm Package
DAPS	Data Collection System (DCS) Automatic Processing System
DAR	Decision Analysis and Resolution
DAR	Designated Acquisition Representative
DARB	Data Acquisition Review Board
DARTS	Digital Advance Ranging with Transport Range Signals
DAS	Data Acquisition System
DAS	Directly Attached Storage
DASHO	Designated Agency Safety and Health Official
DAT	Data Analysis Tool
DBDD	Data Base Design Document
DBDM	Dual Band Data (LM-KO)
DBMS	Database Management System
dBpT	Decibel pico-Tesla
dBu	Micro Decibel

Acronym	Definition
DC	Digital Count
DCAA	Defense Contract Auditing Agency
DCC	Deep Convective Clouds
DCFM	Data Center Fabric Manager
DCLMA	District of Columbia Lightning Mapping Array
DCMA	Defense Contract Management Agency
DCMC	Defense Contract Management Command
DCN	Document Change Notice/Control Number
DCNM	Data Center Network Manager
DCOMP	Daytime Cloud Optical and Microphysical Properties
DCP	Data Collection Platform
DCPC	Data Collection Platform Commands
DCPI	Data Collection Platform Interrogation
DCPR	Data Collection Platform Report
DCR	Document Change Record
DCRB	Delivery Content Review Board
DCS	Data Collection System
DCS	Distributed Control System
DCS-GES	DCS Ground Equipment Set
DD	Data Deliverable
DD	Detailed Design
DD	Description Document
DD	Design Description
DDL	Design Definition Language
DDoS	Distributed Denial of Service
DDR	Data Delivery Report (CLASS)
DDR	Detailed Design Review

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Acronym	Definition
DDTC/DTC	Directorate of Defense Trade Controls [/DOS] which administers ITAR
DE	Data Engineer
DE	Detection Efficiency
DE	Development Environment
DEM	Digital Elevation Model
DEM	Differential Emission Measure
DES	Data Exchange Service
DESA	Defense Evaluation Support Activity
Dev&I	Development and Integration
DEWG	Data Engineering Working Group
DF	Data Fabric
DF	Data Formatter
DFD	Data Flow Diagram
DFP	Digital Front-end Processors
DFT	Discrete Fourier Transform
DGTLS	Diagnostic Tools
DHB	Discrete Heartbeat
DHCP	Dynamic Host Configuration Protocol
DIACAP	Department of Defense Information Assurance Certification and Accreditation Process
DICF	Division Inventory Control Function
DID	Data Item Description
DIF	Data Information Flag
DiffServ	Differentiated Services
DIR	Defense Meteorological Satellite Program Incident Report
DISTM	Detailed Integrated Satellite Thermal Model

Acronym	Definition
DIT	Dynamic Interaction Test
DITE	Development, Integration and Test Environments
DITL	Day-In-The-Life
DITZ	Development environment, Integration and Test Zone
DLCI	Data Link Connection Identifier
DLFM	Domain Level Fault Management
DLOC	Delivered/Devloped Line of Code
DM	Data Management
DM	Data Model
DMAP	Data Management and Analysis Plan
DMC	Dynamic Motion Compensation
DMI	Data Model Interface
DMI	Direct Method Invocation
DML	Database Manipulation Language
DMR	Design Modification Review
DMSMS	Diminishing Manufacturing Sources and Material Shortages
DMSP	Defense Meteorological Satellite Program
DMTF	Distributed Management Task Force
DMW	Derived Motion Winds
DMWA	Derived Motion Winds Algorithm
DNS	Domain Name Service
DNSSec	Domain Name System Security
DO	Data Operations
DOD	Depth of Discharge
DoD	U.S. Department of Defense
DoDAAC	DOD Activity Address Code

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Acronym	Definition
DOE	Data Operations Exercises
DOE	Department of Energy
DOF	Degrees of Freedom
DOI	Digital Object Identifier
DOM	Data Operations Manager
DOORS	Dynamic Object Oriented Requirements System
DOP	Data Operations Procedure
DoS	Denial of Service
DOST	Data Operations Support Team
DOT	Data Operations Test
DOT	Delivery and Operational Transition
DPA	Differential Power Analysis
DPA	Destructive Physical Analysis
DPI	derived product image (CCR 1528)
DPLH	Direct Project Labor Hours
DPM	Deputy Program (or Project) Manager
DPMR	Deputy Project Manager Resources
DPR	Dual-frequency Precipitation Radar
DPU	Data Processing Unit
DPXR	Diplexor Transceiver
DQF	Data Quality Flag
DR	Decommissioning Review
DR	Discrepancy Report
DR	Disposal Review
DRAC	Dell Remote Access Controller
DRB	Design Reference Baseline
DRD	Data Requirement Description

Acronym	Definition
DRFP	Draft Request for Proposal
DRGS	DCS Remote Ground Stations
DRGS	Direct Readout Ground Station (DCS)
DRH	Design Reference Handbook
DRL	Deutsches Zentrum für Luft und Raumfahrt (Oberpfaffenhofen, Germany)
DRM	Design Reference Mission
DRM	Disaster Recovery Manager
DRO	Dielectric Resonator Oscillator
DRO	Direct Readout
DRP	Design Review Program
DRS	DRS Technologies
DS	Data Sharing
DS	Delegation Signer
DS	Digital Signal
DSA	Data Source Adapters
DSCC	Defense Supply Center Columbus
DSCP	DiffServ Code Point
DSE	Data Service Element
DSLOC	Delivered Source Lines of Code
DSN	Deep Space Network
DSN	NOAA Departmental Sponsor
DSP	Digital signal processing
DSPD	Deputy System Program Director
DSR	Downward Shortwave Radiation: Surface
DSS	Digital Signature Standard
DST	Decision Support Tool
DST	Deploy Software and Tables

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Acronym	Definition
DSU	Data synchronization unit
DTED	Digital Terrain Elevation Data
DTO	Data Transport Object
DTO	Detailed Test Objectives
DTWT	Data Transfer Workload Table
DU	Dobson unit
DUS	Deputy Under Secretary
DUT	Data Under Test
DVB-S2	Digital Video Broadcasting - Second Generation
DVD	Digital video disk; digital versatile disk
DVR	Drivers
E	
E	East
E/W	East/West (or East - West)
EA	Engineering Analysis
EA	Enterprise Architecture
EA	Environmental Assessment
EaaS	ESB as a Service
EAC	Estimate At Completion
EAL	Evaluation Assurance Level
EAM	Enterprise Asset Management
EAP	Extensible Authentication Protocol
EAPOL	Extensible Authentication Protocol over LAN
EAR	Engineering Analysis Report
EAR	Export Administration Regulations
EAWS	Engineering Analysis Workstation
EB	Enhancement Build

Acronym	Definition
Eb/No	Energy per bit to Noise Density Ratio
EC	Earth Coverage
EC	Environment Canada
ECA	Earth Central Angle
ECA	Event Correlation and Analysis
ECAL	Electronic In-Flight Calibration
ECB	Engineering Change Board
ECC	Error Correction Circuitry
ECCN	Export Commerce Control Number
ECD	Estimated Completion Date
ECF	Earth Center Fixed
ECF	EGSE Checkout Equipment
ECI	Earth Centered Inertial
ECI	Environmental Calibration Initialization
ECMWF	European Center for Medium-Range Weather Forecasts (CCR 1528)
ECO	Engineering Change Order
ECP	Engineering Change Proposal
ECP	Export Control Plan
ECR	Engineering Change Request
ECR	Environmental Compliance and Restoration
ECRA	Electrical Contact Ring Assembly
ECRB	Engineering Change Review Board
ECSS	European Cooperation for Space Standardization
ECT	External Calibration Target
EDA	EPP Diagnostic Accelerometer
EDAC	Error Detection and Correction

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Acronym	Definition
EDOS	Earth Observing System Data and Operations System
EDOVO	External Data Operations Validation Objectives
EDR	Environmental Data Record
EDR	Eddy dissipation rate
EDS	Error Data Set
EDU	Engineering Development Unit
EE	Expected Error
EED	Electro-Explosive Device
EEE	Electrical, Electronic and Electromechanical
EELV	Evolved Expendable Launch Vehicle
EELV-M	Evolved Expendable Launch Vehicle - Medium
EEP	Electronically Erasable Program
EEPROM	Electronically Erasable Programmable Read Only Memory
EESS	Earth Exploration Satellite Service
EEZ	Exclusive Economic Zone
EF	Expedited Forwarding
EGSE	Electrical Ground Support Equipment
eGVAR	Emulated GVAR
EHIS	Energetic Heavy Ion Sensor
EI	Enterprise Infrastructure
EIA	Electronic Industries Alliance
EIF	Event Integration Facility
EIL	Equipment Identification List
EIR	External Interfaces and Resources
EIR	External Interface Router

Acronym	Definition
EIR	Enhanced infrared
EIRnet	External Interfaces and Resources Network
EIRP	Effective Isotropic Radiated Power
EIRP	Equivalent Isotropic Radiated Power
EIRR	External Independent Readiness Review
EIS	Environmental Impact Statement
EIT	Element Integration & Test
EIT	Engineering Information Technology
ELAN	EGSE-Local Area Network
ELDR	Enhanced Low Dose Rate
ELDRS	ELDR Susceptible
ELM	Enterprise Log Manager
ELT	Emergency Locator Transmitter
ELV	Expendable Launch Vehicle
EM	Engineering Model
EM	Enterprise Management
EM	Equivalent Manning
EMC	Electromagnetic Compatibility
EMC	Embedded Micro Controller
EMC	Environmental Modeling Center
EMCORE	Environmental Management Center Opportunities Resource
EMI	Electromagnetic Interference
EMISS4	4 µm Emissivity Test (cloud detection test)
EMOC	Engineering Mission Operations Control (VCRM)
EMnet	Enterprise Management Network
EMOSS	Engineering and Mission Operations Support Services

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Acronym	Definition
EMWIN	Emergency Managers Weather Information Network
EMT	Emergency Medical Technicial
ENG-CTV	Element Energy- Configuration Table Version
ENIQ	Ericsson Network IQ
ENTCTL	Enterprise Control
ENTLN	Earth Networks Total Lightning Network
ENVI	Environmental Satellite Processing Center
EO	Electro-Optical
EO	Engineering Order
EO-1	Earth Observing Satellite 1
EOC	Element of Cost
EOC	End-of-charge
EOC	End of Contract
EOCC	Experiment Operations Control Center
EOD	End-of-Discharge
EOF	Empirical Orthogonal Function
EOL	End of Life
EOPP	Earth Oriented Parameter Prediction
EOS	Earth Observing System
EoS	Economies of Scale
EOS	Electro-Optical System
EP	Equivalent People
EPC	Electronic Power Conditioner
EP&D	Electrical Power & Distribution
EPA	Environmental Protection Agency (CCR 1528)
EPC	Electrical Power Converter
EPC	Engineering Process Council

Acronym	Definition
EPCU	Enhanced Power Conditioning Unit
EPDM	Enterprise Product Data Management
EPEAD	Energetic Proton, Electron, and Alpha Detector
EPG	Engineering Process Group
EPI	Engineering Process Improvement
EPIC	Eclipse Perl Integration
EPIRB	Emergency Position Indicating Radio Beacon
EPL	Eclipse Public License
EPL	Enterprise Process Lifecycle
EPO	Emergency Power Off
EPP	Earth Pointing Platform
EPROM	Erasable Programmable Read Only Memory
EPS	Electrical Power Subsystem
EPS	Energetic Particle Sensor
EQM	Engineering Qualification Model
ER	Eastern Range
ER/WR	Eastern Range/Western Range
ERB	Engineering Review Board
ERB	Earth Radiation Budget
ERM	Ejector Release Mechanism
EROS	Earth Resources Observation and Science
ERWIN	Entity Relationship - Windows
ES	Enterprise Supervisor
ESA	European Space Agency
ESB	Enterprise Service Bus
ESD	Electro Static Discharge
ESLOC	Equivalent Source Line of Code

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Acronym	Definition
ESM	EGSE System Management
ESM	Enterprise Security Manager
ESP	Encapsulating Security Payload
ESPC	Environmental Satellite Processing Center
ESPDS	Environmental Satellite Processing and Distribution Services
ESRL	Earth Systems Resource Laboratory (NOAA)
ESSL	Earth & Space Science Laboratory
ESSL	European Severe Storms Laboratory
ESSP	Earth System Science Pathfinders
ESTE	Electrical System Test Equipment
ETA	EUV Telescope Assembly
ETC	Estimate to Completion
ETE	End-to-End
ETEWG	End-to-End Working Group
ETL	Engineering Test Labs
ETL	Environmental Test Labs
ETM	Engineering Test Matrices
ETNI	Enterprise Test Name Identifier
ETO	Equipment Transfer Order
ETROP	Emissivity at Tropopause (Cloud Detection Test)
ETS	Engineering and Test Support
ETSI	European Telecommunications Standards Institute
ETU	Engineering Test Unit
EU	Electronics Unit
EU	Engineering Units
EU	Expected Utility

Acronym	Definition
EUMETSAT	European Organization for the Exploitation of Meteorological Satellites
EUV	Extreme Ultraviolet
EUVS	Extreme Ultraviolet Sensor
EV	Earned/Expected Value
EVM	Earned Value Management
EVMGR	Event Manager
EVMON	Event Monitoring
EVMS	Earned Value Management System
EVMSG	Event messaging
EVRD	Environmental & Verification Requirements Document
EVS	Earned Value System
EWSK	East/West Station Keeping
EXELIS	ABI Contractor (Now Harris)
EXIS	Extreme Ultraviolet and X-ray Irradiance Sensors
EXISE	EXIS Emulator
F	
F&PS	Functional and Performance Specification
FA/Tool	Fault Automation Tool
FAA	Federal Aviation Administration
FACD	Financial and Administrative Computing Division
FAD	Formulation Authorization Document
FAR	False Alarm Ratio
FAR	Federal Acquisition Regulation
FARM	Frame Acceptance and Reporting Mechanism
FASCAL	Facility for Spectroradiometric CALibrations

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Acronym	Definition
FAST	Facility, Antenna, Sustainment, and Transition to Operations
FAST	Functional Alignment Support Team
FASTCATS	Functional Alignment Support Team Corrective Action Tracking System
FAT	Factory Acceptance Test
FAT	First Article Test
FBA	Fuse Box Assembly
FBCA	Federal Bridge Certification Authority
FBL	Functional Baseline
FC	Fiber Channel
FCA/GCA/ALC	Fixed Control Attenuator/Gain Control Attenuator/Automatic Level Control
FCA	Functional Configuration Audit
FCC	Federal Communications Commission
FCCS	Fire Characteristic Classification System
FCD	Federal Continuity Directive
FCDAS	Fairbanks CDAS
FCoE	Fiber Channel over Ethernet
FD	Flight Director
FD	Full disk
FDAB	Flight Dynamics Analysis Branch (GSFC)
FD&C	Fault Detection and Correction
FDC	Fault Detection and Correction
FDCA	Field Data Collection Automation
FDCC	Federal Desktop Core Configuration
FDF	Flight Dynamics Facility
FDMA	Frequency Division Multiple Access

Acronym	Definition
FDO	Fee Determination Officials
FDRR	Full Disk Rationing Radiometer
FDS	Flight Dynamics System
FTDB	Forecast Decision Training Branch
FEA	Finite Element Analysis
FEA	Federal Enterprise Architecture
FEC	Forward Error Correction
FECC	Forward error correction code
FEL	NIST FEL Lamp
FEM	Finite Element Model
FEMA	Federal Emergency Management Agency
FEP	Front End Processor
FER	Frame error rate
FER	False Event Rate
FET	Field Effect Transistor
FFBD	Functional Flow Block Diagram
FFM	Financial Forecast Model
FFMEA	Functional Failure Modes and Effects Analysis
FFP	Firm Fixed Price
FFR	Frame to Frame Registration
FFRDC	Federally Funded Research and Development Center
FGDC	Federal Geographic Data Committee
FGF	Fixed Grid Frame (ABI PORD)
FI&T	Factory Integration & Test
FinWS	First in Weather System
FIPS	Federal Information Processing Standard

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Acronym	Definition	Acronym	Definition
FISMA	Federal Information Security Management Act	FOO	Flight Operations Office
FIST	Final Integrated System Test	FOR	Field of regard
FIT	Flight icing threat	FOR	Flight Operations Review
FIT	Factory Integration Test	FOS	Family of Services (NWS)
FITS	Flexible Image Transport System	FOV	Field Of View
FK	Foreign Key	FP	Flight Project
FLI	First Level Integration	FPA	Focal Plane Array/Assembly
FLOP	Floating Point Operation	FPGA	Field Programmable Gate Array
FM	Flight Model	FPM	Facility Project Manager
FM	Frequency Management	FPM	Flight Project Manager
FMA	Final Mission Analysis	FPMS	Flight Projects and Mission Success
FM/FO	Fault Management/Flight Operations	FPO	Flight Project Office
FMDS	Fault Management Design Specification	FPPD	Flight Program and Projects Directorate
FMEA	Failure Modes & Effects Analysis	FPR	Functional & Performance Requirements
FMECA	Failure Modes Effects and Criticality Analysis	FPRA	Forward Pricing Rate Agreement
FMFIA	Federal Managers' Financial Integrity Act	FPS	Final Product Set
FMR	Financial Management Regulations	FQDN	Fully Qualified Domain Name
FMS	Fault Management System	FRA	Facilitated Risk Assessment
FMVT	Fault Management Validation Test	FRACAS	Failure Reporting And Corrective Action System
FMW	Fine mode weight	FRB	Failure Review Board
FM-X	Flight Model – X	FRP	Fire radiative power
FNMOC	Fleet Numerical Meteorology and Oceanography Center	FRR	Flight Readiness Review
FOC	Final Operating Capability	FSC	Fractional Snow Cover
FOC	Full Operational Capability	FSCA	Fractional Snow Cover Algorithm
FOD	Foreign Object Debris	FSDE	Flight Software Development Environment
FOIA	Freedom of Information Act	FSDT	Flight System Design Team
		FSK	Factor of Safety - Known Torque

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Acronym	Definition
FSME	Flight Software Maintenance Environment
FSP	Flight Segment Plan
FSS	Fine Sun Sensor
FSSA	Fine Sun Sensor Assembly
FSSD	Fine Sun Sensor Detector
FSSE	Fine Sun Sensor Electronics
FSV	Factor of Safety - Variable Torque
FSVE	Flight Software Verification Environment
FSW	Flight Software
FT	Factory Test
FTA	Fault Tree Analysis
FTCH	Flight Telemetry and Command Handbook
FTD	Failure to Decommission
FTE	Full-time equivalent
FTE	Fine Track Error (ABI)
FTK	Fuel tank
FTP	File transfer protocol
FTS	Frequency Translator System
FVT	Functional Verification Test
FWHM	Full Width at Half Maximum
FWSM	Firewall Service Module
FY	Fiscal Year
FY-2	China's National Satellite Meteorological Center Fengyun
G	
g	Earth's gravitational acceleration
G/T	Gain-to-Noise Temperature

Acronym	Definition
G&A	General and Administrative
GAGL	Government-Allocated Ground Latency
GAMCATS	GOES-R Antenna Monitor, Control, and Test Subsystem
GAO	Government Accountability Office
GAS	GOES Archive System
GAS	GOES-R Access Subsystem
GbE	Gigabit Ethernet
GCA	Gain Control Attenuator
GCM	Galois/Counter Mode
GCPs	Ground Control Points
GCRs	galactic cosmic rays
GCSD	Government Communications Systems Division (Harris Corporation)
GD	Ground Directive
GDAS	Global Data Assimilation System
GDDL	Greenbelt Development and Demonstration Lab
GDE	GOES-R Data Exploitation
GDMS	GSFC Directives Management System
GDS	Global Domain Server
GDST	General Dynamic Space Telecommunications
GEANT	SGPS GEANT model
GEO	Geostationary Earth Orbit
GEO-CAPE	Geosynchronous Earth Orbit Local User Terminal (COSPAS-SARSAT)
GEOLUT	Geosynchronous Local User Terminal (COSPAS-SARSAT)

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Acronym	Definition
GEONS	GPS Enhanced Onboard Navigation System (LM-KO)
GEOSAR	Geostationary Earth Orbit Search and Rescue
GEOSS	Global Earth Observation System of Systems
GeoTIFF	Tagged Image File Format with geo-referencing information
GERB	Geostationary Earth Radiation Budget
GEVS	General Environmental Verification Standard
GEVS-SE	General Environmental Verification Specification for STS & ELV Payloads, Subsystems, and Components
GFE	Government Furnished Equipment
GFI	Ground fault interrupt (CCR 1528)
GFI	Government Furnished Information
GFP	GOES Flight Project
GFP	Government Furnished Product
GFP	Government Furnished Property
GFS	Global Forecast System
GFY	Government Fiscal Year
GG	Gas Generator
GHB	Goddard Space Flight Center Handbook
GHe	Gaseous Helium
GIA	Government Inspection Agency
GID	Goddard Interim Directive
GIDEP	Government-Industry Data Exchange Program
GIR	GOES Incident Report
GIRD	General Interface Requirements Document
GIS	General Interface Specification

Acronym	Definition
GISS	GOES-R Integrated Scheduling System
GIVVWG	GOES-R Integration, Verification and Validation Working Group
GLASH	GOES-Layer Average Specific Humidity
GL-C3S	Ground Located – Command, Control, & Communications Segment
GLD360	Vaisala Global Lightning Dataset
GLM	Geostationary Lightning Mapper
GLMBGD	GLM Background Images
GLME	GLM Emulator
GLMERS	GLM Emulator, Real-Time Node and Simulator
GMD	Global Monitoring Division, Earth System Research Lab
GMI	Goddard Management Instruction
GMIP	Goddard Management Instruction Policy
GML	Geography Markup Language
GMM	Geometric Math Model
GMM	GOES-R Metadata Model
GMT	Generic Mapping Tool
GN	Ground Network
GN&C	Guidance, Navigation and Control
GNATS	GOES Navigation Analysis and Trending System
GNC&P	Guidance, Navigation and Control & Propulsion
GNC	Guidance, Navigation and Control
GNSO	Ground Network Scheduling Operator
GOCART	Global Ozone Chemistry Aerosol Radiation Transport (CCR 1528)

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Acronym	Definition
GOES	Geostationary Operational Environmental Satellite
GOES I-M	Geostationary Operational Environmental Satellite-I series
GOES-NOP	Geostationary Operational Environmental Satellite-N series
GOES-R	Geostationary Operational Environmental Satellite-R series
GOES-R3	GOES R-series Risk Reduction
GOESRSCAG	GOES-R Snow Cover and Grain Size
GOLD Rules	Goddard Open Learning Design Rules
GOP	Ground Operations Plan
GORD	Geostationary Operations Requirements Document
GORWG	GOES-R Series Operational Requirements Working Group
GOSAT	Japanese "IBUKI", Greenhouse Gas Observing Satellite
GOTS	Government Off-The-Shelf
GOWG	Ground Operations Working Group
GP	Geophysics Directorate
GPA	Ground Processing Algorithm
GPAD	Ground Processing Algorithm Document
GPC	General Purpose Computer
GPD	Goddard Policy Directive
GPDS	Ground Processing Demonstration System
GPDS	Ground Processing Development System (GLM)
GPF	GPS-III Processing Facility
GPFS	General/Generic Parallel File System
GPG	Goddard Procedures and Guidelines

Acronym	Definition
GPL	General Public License
GPM	Global Precipitation Measurement
GPMC	Governing Program Management Council
GPO	GOES-R Program Office
GPR	Goddard Procedural Requirements
GPRA	Government Performance and Results Act
GPRD	GOES Program Requirements Document
GPS	Global Positioning System
GPS-Met	GPS meteorology
GPSR	Global Position System Receiver
GPWG	GSIT Planning Working Group
GQM	Goal- Question Measurement
G-RAD	GPS Requirements Allocation Document
GRATDAT	GOES-R ABI Radiometric Trending and Data Analysis Toolkit
GRB	Global Rebroadcast
GRB	GOES Rebroadcast
GRBT	GRB ground Terminal
GRC	Glenn Research Center (NASA)
GRD	GOES-R Requirements Document
GRD	Ground Readiness Date
GRDDP	GOES-R Reliable Data Delivery Protocol (GLM)
GRE	Ground Readiness Exercises
GRIB	Gridded Binary
GRID	Giver-Receiver Inter-Segment Database
GRMS	Goddard Review Management System
GRO	Government Resident Office
GRS	General Records Schedule

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Acronym	Definition
GRS80	Geodetic Reference System 1980
GRT	Ground Readiness Team
GS	Ground Segment/Ground System
GS	Ground Station (S/C)
GSAR	Ground Segment Acceptance Review
GSC	Ground System Controller
GSD	Ground Sample Distance (ABI)
GSD	Global Systems Division (ESRL)
GSCD	Ground Segment Development Center
GSE	Ground Support Equipment
GSEDS	Ground Systems Engineering & Depot System
GSFPS	Ground Segment Functional & Performance Specifications
GSICS	Global Space-based Inter-Calibration
GSIT	Ground Segment Integration and Test
GSIT	Ground Segment/System Integration Tests
GSKMP	GOES-R System Key Management Plan
GSM	Ground Segment Mission
GSMAR	Ground Segment Mission Assurance Requirements
GSP	Ground Segment Plan
GSP	Ground Segment Project
GSPLA	Ground Segment Post Launch Acceptance
GSPM	Ground Segment Project Manager
GSPO	Ground Segment Project Office
GSPSO	Ground Segment Project Science Office
GSRS	Ground Segment Requirements Specification
GSSE	Ground Segment Systems Engineering/Engineer
GSSIM	Ground Systems Simulator

Acronym	Definition
GSV	Ground Segment Verification
GSVR	Ground Segment Verification Review
GSWTRR	GSE Software Test Readiness (ABI)
G/T	Antenna Gain-to-Noise Temperature Ratio
GT	Guide Telescope (SUVI)
GTA	Guide Telescope Assembly
GTACS	GOES-NQ Telemetry and Command System
GTO	Geosynchronous Transfer Orbit
GTS	Global Telecommunication System (of WMO)
GUC	GOES Users' Conference
GUI	Graphical User Interface
GUM	Guide to the Expression of Uncertainty in Measurement
GVAR	GOES Variable Data (Legacy GOES)
GWT	Google Web Toolkit
H	
H/W	Hardware
H&S	Health and Safety
HA	Hazard analysis
HA	High Accuracy
HA	High Availability
HAMMA	Huntsville Alabama Marx Meter Array
HASS	SXI High Accuracy Sun Sensor
HB	Heartbeat
HBA	Host Bus Adapter
HBT	Hydrazine Bi-propellant thruster (SC KO)
HCI	Human Computer Interface

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Acronym	Definition
HCP	Harris Collaborative Portal
HDBK	Handbook
HDDL	Harris Development and Demonstration Lab
HDF	Hierarchical Data Format
HDP	Hardware Development Plan
HDT	Hardware Debug Tool
HDVIP	High Density Vertically Interconnected Photodiode
HEA	Headquarters Export Administrator (NASA)
HEC	Header Error Code
HEL	High Electron Laser
HELSTF	High Energy System Test Facility
HEPAD	EPS/High Energy Proton and Alpha Detector
HEPP	Human Engineering Program Plan
HES	Hyperspectral Environmental Suite
HFMS	High Fidelity Mechanical Simulator
HFS	Harris Frame Synchronizer
HGA	High Gain Antenna
HIE	Hurricane Intensity Estimate
HIDP	Host-based Intrusion Detection and Prevention
HIDS	Host Intrusion & Detection Software
HIPS	Host-Based Intrusion Prevention System
HIRDLS	High Resolution Dynamics Limb Sounder
HIRS	High Resolution Infrared Radiation Sounder (on NOAA TIROS-N series and MetOp satellites)
HITS	Harris Information Technology Services Corporation
HK	Housekeeping
HMAC	Hash Message Authentication Code

Acronym	Definition
HMD	Hardware Maintenance Depot
HMEA	Hazard Modes and Effects Analysis
HMI	Human Machine Interface
HMS	Hazard Mapping System (NOAA/NESDIS)
HON	Honeywell International Incorporation
HOPA	High Output Paraffin Actuator (GLM)
HOTTB	Hot Thermal Balance
HP	Heat Pipe
HP	Hewlett-Packard
HPA	High Power Amplifier
HPA	High Performance Analog
HPC	Hydro-meteorological Prediction Center
HPOL	Horizontal Polarization
HR	Hurricane Rated
HRC	High Resolution Coating
HRFS	High Reliability Files System
HRG	Hemispherical Resonating Gyros
HRI	Hazard Risk Index
HRIT	High Rate Information Transmission
HRIT/EMWIN	HIRT/Emergency Managers Weather Information Network (was EMWIN/LRIT)
HRR	Handover Readiness Review
HRRR	High Resolution Rapid Refresh
HS	Hot Standby
HSFS	High Speed Frame Sync
HSKP	Housekeeping
HSO	Hot Standby Operation
HSPD	Homeland Security Presidential Directive

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Acronym	Definition
HSS	Heidke Skill Score
HTEMS	HUB Tivoli Enterprise Management Server
HTL	Hazard Tracking Log
HTML	Hypertext Transfer Protocol
HTSI	Honeywell Technology Solutions Incorporated
HTTP	Hyper Text Transfer Protocol
HVEPC	High Voltage EPC
HW	Hardware
HWCI	Hardware Configuration Item
HWIL	Hardware in the Loop
HWPS	Hardware Procurement Specification
HWRS	Hardware Requirements Specification
HWT	Hazardous Weather Testbed
I	
I/B	In-Board
I/F	Interface
I/O	Input/Output
I&AP	Inspect and Analyze Products
I&Q	In-Phase & Quadrature
I&T	Integration and Test
I&TE	Integration and Test Environment
IA	Identification and Authentication (Security)
IA	Impact Assessment
IA	Independent Assessment
IA	Instrument Accommodation
IA	Information Assurance
IABP	International Arctic Buoy Program

Acronym	Definition
IAC	Independent assurance contractor
IAM	Identity and Access Management
IANA	Internet Assigned Numbers Authority
IASI	Infrared Atmospheric Sounding Interferometer
IATT	Interim Authority To Test
IB	Integrated Baseline
IB	InBoard
IBIT	Initiated Built In Test
IBM	International Business Machines
IBPD	Integrated Budget and Performance Document
IBR	Integrated Baseline Review
IC	Integrated Circuit
ICA	Integrated Compatibility Analysis
ICA	Independent Cost Analysis
ICAO	International Civil Aviation Organization
ICD	Interface Control Document
ICE	Independent Cost Estimate
ICHC	Inventory and Configuration History Collector
ICMP	Internet Control Message Protocol
ICP	Integrated C&DH Processor
ICPM	Intelligent Copper Pass-Through Module
ICS	Industrial Control Systems
ICT	IR Calibration Target
ICT	Inflight Calibration Target
ITC	Integrated Checkout Test
ICT	Internal Calibration Target
ICWG	Interface Control Working Group

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Acronym	Definition
IDD	Instrument Definition/Description Document
IDD	Interface Design Description
IDD	Internet Data Distribution
IDE	Integrated Digital Environment
IDE	Integrated Development Environment
IDL	Interactive Data Language
IDP	Intrusion Detection and Prevention
IDPS	Intrusion Detection and Prevention Systems
IDS	Intrusion Detection System
IDT	Integrated Development Team
IE	Information Engineering
IE	Initiating Event
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronic Engineers
IEOS	Integrated Earth Observing System
IER	Initial Evaluation Review
IERS	International Earth Rotation Services
IES	Interferometric Editing System
IESD	Internal Electrostatic Discharge
IETF	Internet Engineering Task Force
IF	Interface
IF	Intermediate Frequency
IFA	Input Filter Assembly
IFC	In-flight Calibrations
IFDS	Intermediate Frequency Distribution Switching
IFDS-SS	Intermediate Frequency Distribution Switch – Switching Software

Acronym	Definition
IFFR	Image Frame to Frame Registration
IFMS	Integrated Financial Management System
IFREMER	Institut Français de REcherche pour l'exploitation de la MER (French Oceanic Institute, Brest)
IGBP	International Geosphere-Biosphere Programme
IGFOV	Instantaneous Ground Field of View
IGMP	Internet Group Management Protocol
IGRF	International Geomagnetic Reference Field
IIF	Information in Identifiable Form
IIR	Independent Implementation Review
IIR	Integrated Independent Review
IIRP	Integrated Independent Review Plan
IIRT	Integrated Independent Review Team
IKE	Internal Key Exchange
ILCCA	Independent Life-Cycle Cost Analysis
ILED	Intelligent Light Emitting Diode
ILO	Integrated Lights Out
ILS	Integrated Logistics Support
ILSP	Integrated Logistics Support Plan
ILT	Instructor – Led Training
IM	Instrument Manager
IMAR	Instrument Mission Assurance Requirements
IMC	Image Motion Compensation
IMF	Instrument Mounting Frame
IMF	Integrated Management Framework
IMF	Integrated Master Framework
IML	Identity and Access Management

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Acronym	Definition
IMM	Integrated Management Module
IMP	Integrated Management Plan
IMPROVE	Interagency Monitoring of Protected Visual Environment
IMS	Integrated Master Schedule
IMS	Interactive Multisensor Snow and Ice Mapping System
IMU	Inertial Measurement Unit
InCalD	Instrument Calibration Data
INCITS	International Committee for Information Technology Standards
INCO	Integration and Checkout
IND	Interplanetary Network Directorate
INPE	Instituto Nacional de Pesquisas Espaciais
INPRG	In Progress
INR	Image Navigation and Registration
INS	Instruction
INST CAL	Instrument Calibration Data
IO	Input/Output
IO	Information Owner
IO	Interoperability
IOC	Initial Operational Capability
IOPS	Input/output Operations Per Second
IORD	NPOESS Integrated Operational Requirements Document
IOSEWG	Inter Organizational Systems Engineering Working Group
IOT	In-Orbit Transfer Test/Testing

Acronym	Definition
IP	Integrated Process
IP	Intellectual Property
IP	Internet Protocol
IPA	Inter-Program Agreements
IPACS	Integrated Polar Acquisition and Control Subsystem
IPAMS	IP Address Management System
IPAO	Independent Program Assessment Office
IPC	Inter- Process Communications
IPC	International Policy Committee
IPC	Association Connecting Electronics Industries
IPD	Individuals and Integrated Product Development Teams
IPD	Information Processing Division (OSDPD)
IPDU	Internet Protocol Data Unit
IPM	Instrument Performance Monitor
IPM	Integrated Process Manual
IPMI	Integrated Platform Management Interface
IPMS	Integrated Program Master Schedule
IPP	IP Precedence
IPPD	Integrated Product and Process Development
IPS	Intrusion Prevention System
IPSC	Information Processing Standards for Computers
IPT	Integrated Product Team
IPv6	Internet Protocol version 6
I/Q	In-phase/Quadrature-phase
IQM	Ingest Quality Manager
IR	Infrared

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Acronym	Definition
IR	Incident Report
IR	Incident Response (Security)
IRAB	International Radiosonde/Rawinsonde Observation Mandatory Levels
IRAD	Independent Research and Development
IRB	Incident Review/Report Board
IRD	Interface Requirements Document
IRDM	Integrated Requirements & Design Models
IRE	Integrated Rate Error
IRF	Inertial Reference Frame
IRIG	Inter-Range Instrumentation Group
IRIG-B	IRIG - Time Code Format B
IRIS	Incident Reporting Information System
IRM	Information Resource Management
IRMA	Integrated Risk Management Application (RM Database)
IRMT	Information Resource Management Team
IRP	Incident Response Plan
IRS	Interface Requirements Specification
IRSG	International RAOB Significant Levels
IRSST	Infrared Sea Surface Temperature
IRT	Independent Review Team
IRT	Interim Response Team
IRU	Inertial Reference Unit
IRW	infrared window
IS	Infrastructure System
IS	Information Security
IS	Information System

Acronym	Definition
IS	Interface Specification
ISA	Interconnected Security Agreement
IS-AS	IS Element Application Server
IS-CS	Infrastructure Consolidated Storage
ISD	Instructional System Design
ISE	Instrument Systems Engineer
ISI	Integral Systems Incorporated
ISIQT	Internal Software Item Qualification Test
ISL	Inter Switch Link
ISM	Internet Service Monitor
ISM	Instrument Systems Manager
ISMP	Integrated Schedule Management Plan
ISO	International Organization for Standardization
ISP	Specific Impulse
ISR	Individual Subcontract Reports
ISR	Institute for Scientific Research
ISR	Internal Shared Resources
ISRS	IS Element Requirement Specification
ISS	Internet Security Systems
ISSE	Information Systems Security Engineer
ISSO	Information System Security Officer
ISSP	Information System Security Plan
IST	Ice Surface Temperature (CCR 1528)
ISTP	International Solar-Terrestrial Physics
IT	Information Technology
IT&V	Integration, Test and Verification
ITA	Independent Technical Authority

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Acronym	Definition
ITA	Integrated Thermal Analysis
ITAM	IT Asset Management
ITAR	International Traffic in Arms Regulations
ITC	Information Technology Center
ITCO	Installation Test and Checkout
ITD	Inception to Date
ITE	Integration &Test Environment
ITIL	Information Technology Infrastructure Library
ITPS	Integrated Trending and Plotting System
ITRB	Information Technology Review Board
ITS	Information Technology Services
ITSM	Information Technology Security Manual
ITSO	Information Technology Security Officer
ITSP	Information Technology Security Policy
ITSPP	Information Technology Security Program Policy
ITSWG	IT Security Working Group
ITT	ITT Industries (former ABI contractor)
ITU	International Telecommunication Union
ITVWG	Integration, Test and Validation Working Group
ITWG	Integration and Test Working Group
IVL	Individual Validated License
IV&V	Independent Verification and Validation
IWG	Instrument Working Group
IWP	Ice Water Path
J	
J2000	Reference epoch of Jan 1, 2000
J2EE	Java 2 Platform, Enterprise Edition

Acronym	Definition
JAAS	Java Authentication and Authorization Service
JASD	Joint Agency Satellite Division
JAXA	Japan Aerospace Exploration Agency
JCL	Joint Cost Schedule Confidence Level
JCSDA	Joint Center for Satellite Data Assimilation
JDBC	Java Database Connectivity
JHSL	John Hopkins Spectral Library
JMS	Java Message Service
JMX	Java Maintenance Extensions
JNI	Java Native Interface
JOFOC	Justification for Other than Full and Open Competition
JPA	Java Persistence API
JPDO NextGen	Joint Planning Development Office - Next Generation Air Transportation Control System
JPEG	Joint Photographic Experts Group
JPL	Jet Propulsion Laboratory
JPRT	Joint Program Review Team
JPSS	Joint Polar Satellite System (NOAA)
JRE	Java Runtime Environment
JTWC	Joint Typhoon Warning Center
JVM	Java Virtual machine
JWST	James Webb Space Telescope
K	
KDP	Key Decision Point(s)
KI	K Index
KMA	Korea Meteorological Administration
KPNR	KSC Safety Practices Procedural Requirements

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Acronym	Definition
KPA	Key Process Area
KPIs	Key Performance Indicators
KPP	Key Performance Parameter
KSC	Kennedy Space Center (NASA)
KTR, Ktr	Contractor
L	
L	Launch
L0	Level 0
L1B, or L1b	Level 1B; Level 1b
L1R	Level 1 Requirement
L2	Level 2
L2+	Level 2 and higher
L&EO	Launch and Early Orbit
LACP	Link Aggregation Control Protocol
LAE	Liquid Apogee Engine
LAP	Legacy Atmospheric Profile
LAPSS	Large Area Pulsed Solar Simulation
LaRC	Langley Research Center (NASA)
LASP	Laboratory for Atmospheric and Space Physics
LAT	Lot Acceptance Test
LB	Load Balancer
LBC	Labor Bid Code
LBNL/ALS	Lawrence Berkeley National Laboratory/Advanced Light Source
LCC	Launch Commit Criteria
LCC	Life Cycle Cost
LCC	Load Cycle Count
LCCE	Life-Cycle Cost Estimate

Acronym	Definition
LCE	Life Cycle Engineering
LCFA	Lightning Cluster Filter Algorithm
LCL	low cloud layer
LCR	Launch Control Room
LDALC	Linearizer Drive Amplifier with Automatic Level Control
LDAP	Lightweight Directory Access Protocol
LDAR	Lightning Detection and Ranging
LDCM	Landsat Data Continuity Mission
LDM	Logical Data Model
LDPC	Low Density Parity Check (Coding Technique)
LECO	Line Environmental Compliance and Safety Officer (SECO
LEGF	Lightning Events Groups and Flashes
LEO	Low Earth Orbit
LEOP	Launch and Early Orbit Phase
LET	Linear Energy Transfer
LFU	Least Frequently Used
LGPL	Lesser General Public License
LHCP	Left-Hand Circular Polarization
LHP	Linear/Loop Heat Pipe
LI	Lifted Index
LIDAR	LIght Detection And Ranging
LIRD	Level 1 Requirements Document
LIS	Lightning Imaging Sensor
LL	Lessons Learned
LLA	Launch Lock Assembly
LLI	Limited Life Items

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Acronym	Definition
LLIL	Limited Life Items List
LLIS	Lessons Learned Information System
LLS	Linear Least Squares
LLWG	Lessons Learned Working Group
LM	Lockheed Martin
LMA	Lightning Mapping Array
LMATC	Lockheed Martin Advanced Technology Center
LMC	Line-of-sight Motion Compensation
LMSAL	Lockheed Martin Solar & Astrophysics Laboratory
LMSSC	Lockheed Martin Space Systems Company
LNA	Low Noise Amplifiers
LO	Line Office
LOA	Letter of Agreement
LOC	Line Of Code
LOC	Loss of Capability
LOD	Letter of Delegation
LOE	Level Of Effort
LOH	Late Onset Harmonics
LoM	Life of Mission
LOR	Launch and Orbit Raising
LOS	line-of-sight
LP	Low Power
LPD	Launch Planning Date
LPLA	NASA Langley Parameterized Longwave Algorithm
LPM	Low-voltage Power Module
LPT	Limited Performance Test
LR	Launch of GOES R satellite

Acronym	Definition
LRC	Local Radiative Center
LRD	Launch Readiness Date
LRE	Latest Revised Estimate
LRF	Line of Sight Reference Frame
LRIT	Low Rate Information Transmission (for GOES-R to be provided by HRIT/EMWIN)
LRITT	Low Rate Information Transmission Terminal
LRR	Launch Readiness Review
LRU	Line Replaceable Unit
LS	Launch Segment
Ls	Launch of GOES-S satellite
LSA	Logistics Support Analysis
LSAR	Logistics Support Analysis Record
LSB	Least significant bit
LSD	Launch Services Division (KSC)
LSE	Launch Support Equipment
LSIM	Launch Site Integration Manager
LSIP	Launch Site Integration Plan
LSP	Launch Services Plan
LSP	Launch Services Program
LSP	Legacy Sounding Products
LSSMA	L-S Band Switch Matrix Assembly
LSSP	Launch Site Support Plan
LSQ	Least square
LST	Land Surface (Skin) Temperature
LSTO	Launch Services Task Order
LTO	Linear Tape-Open
LTR	Low Thrust REA

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Acronym	Definition
LTWTA	Linearized Traveling Wave Tube Amplifier
LUN	Logical Unit Number
LUSI	NIST/LUnar Spectral Irradiance
LUT	Look-Up Table (Ancillary Data)
LUT	local user terminal
LV	Launch Vehicle
LVI	Launch Vehicle Interface
LVRR	Launch Vehicle Readiness Review
LW	Longwave
LW TOA	Long Wave Top of Atmosphere
LWC	Liquid Water Content
LWIR	Longwave infrared; long wavelength infrared
LWP	Liquid Water Path
LZA	Local Zenith Angle
LZSS	Level Zero Storage Service (+B12)
M	
M-AERI	Marine-Atmosphere Emitted Radiance Interferometer
M&A	Measurement and Analysis
M&P	Materials & Processes
M&S	Modeling and Simulation
MA	Momentum Adjust
MA	Mission Assurance
MAC	Mandatory Access Control
MAD	Margin Allocation Document
MADS	Multiple Axis Drive System
MAG	Magnetometer
MAGED	Magnetospheric Electron Detector

Acronym	Definition
MAGIC	Mesoscale Atmospheric Global Irradiance Code
MAGPD	Magnetospheric Proton Detector
MAIAC	Multi-Angle Implementation of Atmospheric Correction
MAID	Master Action Item Database
MAIP	Mission Assurance Implementation Plan
MAM	Mission Assurance Manager
MAP	Mission Assurance Plan
MAR	Mission Assurance Requirements
MARS	Monitoring, Analysis, & Response System
MARS	Multimode Aeronautical Radio System
MASC	Mission Assurance Services Contract
MAST	Monitoring and Analysis Software Tools
MAT	Mission Allowable Temperature
MAT	Mission Assurance Terminal
MaxTTRS	Maximum Time To Restore Service
MCA	Magnetically Controlled Area
MCC	Master Control Console
MCC	Maximum cross-correlation
MCDM	Multi-Criteria Decision Making
MCID	Master Channel ID
McIDAS	Man-computer Interactive Data Access System
MCM	Multi-Chip Module
MCOM	Mission Communications Operations & Maintenance
MCP	Management Control Plan
MCP	Meteorological Communications Package
MCP	Micro Channel Plate

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Acronym	Definition
MCP	Master Control Procedure
MCR	Mission Confirmation Review
MCRR	Mission Confirmation Readiness Review
MCS	Material Costing System
MCT	Multi-Component Transformation
MD	Momentum Desaturation
MD-5	Message digest - 5
MDAA	Mission Directorate Associate Administrator
MDC	Mapped Diagnostic Context
MDD	Metadata Document
MDL	Multiuse Data Link
MDR	Mission Definition Review
MDR	Mission Design Review
ME	Materials Engineer
MEB	Materials Engineering Branch
MECO	Main Engine Cut-Off
MEDA	Macintyre Electronic Design Associates
MEDA	Magnetics testing facility (MAG)
MEF	Mission Essential Functions
MEFL	Maximum Expected Flight Level
MEL	Master Equipment List
MEMSCAG	Multiple End Member Snow Covered Area and Grain
MEO	Medium Earth Orbit
MEOP	Maximum Expected Operating Pressure
MEP	Message Exchange Pattern
MERIS	Medium Resolution Imaging Spectrometer
MES	Main Engine Start

Acronym	Definition
MESO	Mesoscale
MET	Mission Elapsed Time
METE	Mission End-to-End Testing
METOP	European Meteorological Operational SC
MFB	Multi Function Bus
MFR	Memorandum for the Record
MGA	Maturity Growth Allowance
MGH	Massachusetts General Hospital NSCL
MGSE	Mechanical Ground Support Equipment
MI	microwave imagery
MIB	Mishap Investigation Board
MIB	Multiple Interface Board
MIC	Meets Intent Certification
MIKR	Mission Integration Kickoff Review
MIL	Military
MIL-STD	Military standard
MIPS	Millions of Instruction Per Second
MIPs	Mandatory Inspection Points
MIS	Microwave Imager/Sounder (NPOESS)
MISR	Multi-angle Imaging Spectro-Radiometer (EOS)
MISTIC	Meteorological Imager Scene & Timeline Center
MITEQ	Microwave Information Transmission Equipment
MIT LL	Massachusetts Institute of Technology Lincoln Laboratory
MLI	Multi-Layered Insulation
MLS	Mission Life/Lifetime Storage
MLS	Multi Level Security

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Acronym	Definition
MLT	Magnetic Local Time
MM	Mission Management (Ground Segment Element)
MMD	Mean Mission Duration
MMFR	MM Flight Ready
MMI	Man-Machine Interface
MMOD	Micro-Meteoroid Orbital Debris
MMPDS	Metallic Materials Properties Development and Standardization
MMR	Monthly Metrics Review
MOA	Memorandum of Agreement
MOAP	Mission Operations Assurance Plan
MOC	Mission Operations Center
MOCARAT	Monte Carlo Atmospheric Model
MOCI	Mission Operations Configuration Item
MOD06	Moderate Resolution Imaging Spectroradiometer (MODIS) Cloud Product algorithm
MOD35	Moderate Resolution Imaging Spectroradiometer (MODIS) Cloud Mask algorithm
MODB	Mission Operations Database
MODEM	Mission Operations Daily Exchange Meeting
MODIS	Moderate Resolution Imaging Spectroradiometer
MODTRAN	MODerate resolution atmospheric TRANsmission
MOE	Measure Of Effectiveness
MOG	Moderate or greater
MOI	Moment of Inertia
MOLP	Mission Operational Life Phase
MOM	Mission Operations Manager
MOMS	Mission Operations and Mission Services

Acronym	Definition
MON	Mixed Oxides of Nitrogen
MOP	Measure Of Performance
MOP	Mission Operations Plan
MOPS	Millions of Operations Per Second
MOR	Mission Operations Review
MOSFET	Metal Oxide-Silicon Field Effect Transistor
MOST	Mission Operations Support Team
MOT	Mission Operations Test
MOU	Memorandum of Understanding
MOWG	Mission Operations Working Group
MP	Media Protection
MPC	Marine Prediction Center
MPC	Merged Processing Center
MPCB	Material & Processes Control Board
MPCP	Mishap Preparedness and Contingency Action Plan
MPD	Mission Phase Discriminator
MPLNET	Micro –Pulse Lidar Network (NASA)
MPLS	Multi-Protocol Label Switching
MPR	Monthly Program Review
MPS	Magnetospheric Particle Sensor
MPS	Master Production Schedule
MPS	Mission/MM Planning and Scheduling
MPS-Hi	Magnetospheric Particle Sensor-High Energy
MPS-LO	Magnetospheric Particle Sensor–Low Energy
MR	Management Reserve
MRAD	Mission Resources Analysis Document
MRB	Material Review Board

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Acronym	Definition	Acronym	Definition
MRD	Mission Requirements Document	MTG	MeteoSat Third Generation
MRR	Manufacturing Readiness Review	MTL	Mission Time Line
MRR	Material Review Report	MTSAT	Japan's Multifunctional Transport Satellite
MRR	Mission Readiness Review	MTTR	Mean Time To Repair
MRS&S	Multiuse Data Link Receive System and Server	MTTRS	Mean Time To Restore Service
MRT	Mission Readiness Test	MUA	Materials Usage Agreement
MSD	Mission Support Division	MUF	Model Uncertainty Factor
MSDS	Materials Safety Data Sheets	MUMBO	Air Force Research Lab accelerator
MSFC	Marshall Space Flight Center	MUOS	Mobile User Objective System
MSG	Meteosat Second Generation	MUVR	Multilayer Ultra Violet Reflectance
MSI	Managed Security Interface	MVC	Model/Multiple View Controller
MSLP	Mean sea level pressure	MVT	Mission Validation Test
MSOD	Mission Support Office Director	MVTDS	Mission Validation Test Data Sets
MSPSP	Missile Systems Pre-Launch Safety Package	MVVWG	Mission Verification &Validation Working Group
MSR	Monthly Status Report/Review	MWI	Manufacturing Work Instruction
MSRD	Mission/System Requirements Document	MWIR	mid-wave infrared
MST	Maintenance Sustainment and Training	MWSST	microwave sea surface temperature
MST	Mission Support Team	**N**	
MSU	Michigan State University Coupled Cyclotron Facility	N	North
MTA	Metering Tube Assembly	N/A	Not Applicable
MTBF	Mean Time Between Failures	N/O	Normally Open
MTD	Month To Date	N/S	North/South
MTD	Maximum Tolerable Downtime	NAA	Non-Advocate Assessment
MTE	Major test event	NAAPS	Navy Aerosol Analysis and Prediction System
MTF	Modulation Transfer Function	NAC	National Agency Check
MTF	Multi-purpose Test Facility	NAC	Network Access Control
MTG	Maintenance Test Group	NACI	National Agency Check with Inquiries

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Acronym	Definition
NACS	NASA Contract Assurance Services
NAD83	North American Datum of 1983
NAICS	North American Industrial Classification System
NAK	Negative Acknowledgement
NAMMA	NASA African Monsoon Multidisciplinary Analyses
NAO	NOAA Administrative Order
NAR	Non-Advocate Review
NAS	Network Attached Storage
NASA	National Aeronautics and Space Administration
NASCOM	NASA Communications
NAST-I	NPOESS Airborne Sounder Testbed – Interferometer
NASTRAN	NASA Structural Analysis
NAT	Network Address Translation
NAVOCEANO	Naval Oceanographic Office
NBAR	Network Based Application Recognition
NCAR	National Center for Atmospheric Research
NCCM	Network Change & Configuration Management
NCDC	National Climatic Data Center (NESDIS)
NCEP	National Center for Environmental Prediction (NWS)
NCEP	NCEP/ Marine Modeling and Analysis Branch
NCF	Network Control Facility
NCG	Non-Condensable Gas
NCIM	Netcool Common Information Model
NCIRT	NOAA Computer Incident Response Team
NcKL	Netcool Knowledge Library

Acronym	Definition
NCOMP	Nighttime Cloud Optical and Microphysical Properties
NDA	Non-Disclosure Agreement
NDA	NPOESS Data Exploitation
NDE	Non-Destructive Evaluation
NDI	Non-Destructive Inspection
NDI	Non-Development Item
NDSI	Normalized Difference Snow Index
NDVI	Normalized Difference Vegetation Index
NEAR	Near Earth Asteroid Rendezvous
NEAR	NSOF Engineering Analysis Room
NEC	NOAA Executive Council
NEDN	Noise Equivalent Delta Radiance
NEDR	Noise Equivalent Delta Radiance
NEDT	Noise Equivalent Delta Temperature
NEF	National Essential Function
NEII	NESDIS Enterprise Infrastructure Interface
NEMA	National Electrical Manufacturers Association
NEN	Near Earth Networks
NEN	NASA Engineering Network
NENS	Near Earth Network Services
NEP	NOAA Executive Panel
NEPA	National Environmental Policy Act
NEPA/MFR/REC	NEPA Memorandum for the Record (MFR)/Record of Environmental Consideration
NESDIS	National Environmental Satellite, Data & Information Service

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Acronym	Definition
NESDIS AA	NOAA Assistant Administrator For Satellite And Information Services
NET	No Earlier Than
NetCDF	Network Common Data Format
NetMAC	Network Monitor and Control
NEXRAD	Next Generation Doppler radar
NF	NASA Form
NF	Network Fabric
NFDRS	National Fire Danger Rating System
NFNMS	NASA's Foreign National Management System
NFOV	Near Field of View
NFS	Network File System
NFS	NASA Federal Acquisition Regulation (FAR) Supplement
NG/NGR	Northrop Grumman Corp
NGDC	National Geophysical Data Center
NHC	National Hurricane Center
NIC	Network Interface Card
NIDP	Network Intrusion Detection & Protection
NIDS	Network Intrusion Detection System
NIMO	Networks Integration Management Office
NIR	Near Infrared
NIRREF	Near Infrared Reflective Snow Test
NISN	NASA Integrated Services Network
NISPOM	National Industrial Security Program Operating Manual
NISPP	NESDIS Information Security Program Plan
NIST	National Institute of Standards and Technology

Acronym	Definition
NIST-SP	National Institute of Standards and Technology Special Publication
NIST-SURF	National Institute of Standards and Technologies Synchrotron Ultraviolet Radiation Facility
NITF	National Imagery Transmission Format
NITRB	NOAA Information Technology (IT) Review Board
NLD/LMA	National Lightning Detection/Lightning Mapping Array
NLDN	National Lightning Detection Network
NLT	No later than
NLTZ	No Less than Input Zones
NMAO	NOAA Marine and Aviation Operations
Nmax	percentage of maximum radiance
NMFC/JTWC	Naval Maritime Forecast Center/Joint Typhoon Warning Center
NMFS	National Maritime & Fisheries Services (NOAA)
NMO	NASA Management Office
NOA	New Obligation Authority
NOAA	National Oceanic and Atmospheric Administration
NOAT	NWS Operational Advisory Team
NOC	Network Operations Center
NOCC	Network Operations Control Center
NODC	National Oceanographic Data Center
NODIS	NASA On-Line Directives Information System
NOHRSC	National Operational Hydrologic Remote Sensing Center
NOMAT	Non Operational Mission Allowable Temperatures
NON	Negative Orbit Normal

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Acronym	Definition
NORAD	North American Air Defense Command
NOS	National Ocean Service
NOSA	NOAA Observing System Architecture
NOSC	NOAA Observing System Council
NOT	Non-operational Temperatures
NPD	NASA Policy Directive
NPG (was NPR)	NASA Procedures and Guidelines
NPIV	N-Port ID Virtualization
NPOESS	National Polar-Orbiting Environmental Satellite System
NPP	NPOESS Preparatory Project
NPP-JPSS	NPP - Joint Polar Satellite System
NPR	NASA Procedural Requirement(s)
NPS	Next-generation Power Supply
NPSL	NASA Parts Selection List
NRA	NASA Research Announcement
NRCS	Natural Resources Conservation Service
NRE	Non-Recurring Engineering
NRF	Nominal Reference Frame (defined in GIRD)
NRL	Naval Research Lab
NRM	Network Readiness Manager
NRT	Near Real Time
NRZ-L	Non-Return-to Zero- Level
NRZ-M	Non-Return-to-Zero-Mark
NRZ-S	Non-return to zero space
NSA	National Security Agency
NSCL	National Superconducting Cyclotron Laboratory (MGH)

Acronym	Definition
NSD	Network Shared Disk
NSD	Non-SCADA Security Domain
NSDS	NASA Software Documentation Standard
NSI	NASA Standard Initiator
NSI-E	NSI Equivalent
NSOF	NOAA Satellite Operations Facility
NSOM	Network and Space Operations and Maintenance
NSPAR	Nonstandard Parts Approval Request
NSS	Navigation Satellite System
NSS NextGen	Navigation Satellite System Next Generation Navigation Subsystem
NSSK	North/South Station-keeping
NSSL	National Severe Storms Laboratory
NSSTC	National Space Science and Technology Center
NSTISSP	National Security Telecommunications and Information Systems Security Policy
NTE	Not to Exceed
NTGSE	WindowsNT Ground Support Equipment (GLM)
NTIA	National Telecommunications & Information Administration
NTP	Network Time Protocol
NTSB	National Transportation Safety Board
NVD	National Vulnerability Database
NVM	Non Volatile Memory
NVR	Non-Volatile Residue
NWA	National Weather Association
NWCs	National Weather Centers
NWP	Numerical Weather Prediction

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Acronym	Definition
NWS	National Weather Service
NWSTC	NWS Training Center
NWSTG	National Weather Service Telecommunications Gateway
O	
O/B	OutBoard
O-3 or OC-12	Optical Carrier/Layer 3 or Optical Carrier 12
O&A	Orbit and Attitude
O&M	Operations And Maintenance
O&S	Operations & Sustainment/Support
O&SHA	Operating and Support Hazard Analysis
OA	Operational Analysis/ Availability
OAIS	Open Archival Information System
OAIT	Office Automation and Infrastructure Technology
OAR	Office of Atmospheric Research
OAS	Operational Algorithm Service
OASIS	Organization for the Advancement of Structured Information Standards
OASYS	Orbit/Attitude System
OATS	Orbit & Attitude Tracking System
OBC	On-Board Computer
OBMGR	Operations Baseline Manager
OBW	off bi-weekly
OC	Object Classes
OC	Operational Checkout
OCCB	Operations Configuration Control Board
OCCR	Operations Configuration Change Request
OCE	Office of the Chief Engineer

Acronym	Definition
OC/ECI	OC/Environmental Calibration Initialization
OCFO	Office of the Chief Financial Officer
OCFS	Oracle Cluster File System
OCI	Oracle Call Interface
OCI	Organizational Conflict of Interest
OCIO	Office of the Chief Information Officer (DOC)
OCKO	Office of Chief Knowledge Officer
OCONUS	outside CONUS
OCP	Over Current Protection
OCS	Office of the Chief Scientist
OCWWS	Office of Climate, Water & Weather Services
OD	Ocean dynamics
OD	Orbit determination
ODA	Orbital Debris Assessment
ODAPS	OGE Data Acquisition & Patching Subsystem
ODBC	Open Data Base Connectivity
ODC	Other Direct Cost
ODDS	Oxidizer Depleting Detection System
ODE	Orbit Determination Element
ODF	Open Document Format
ODSF	Optical Depth Scaling Factor
ODT	Objective Dvorak Technique
ODYSSEA	Ocean Data Analysis System for Mersea
OE	Operational Environment
OE	Optimal Estimation
OEM	Original equipment manufacturer
OFA	Output Filter Assembly

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Acronym	Definition
OFCM	Office of the Federal Coordinator for Meteorology
OFI	Other functional initiative
OGC	Office of General Counsel (DOC)
OGC	Other Government Cost
OGE	Operations Ground Equipment (GOES-I/P)
OGE	Oracle Grid Engine
OGS	Observation Generation Software
OGSE	Optical Ground Support Equipment (GLM)
OH	Optical Head
OHA	Operational Hazard Analysis
OI	Optimum Interpolation
OID	Object Identifier
OISST	Optimal Interpolation Sea Surface Temperature
OLI	Operational Land Imager
OLR	Outgoing Longwave Radiation (refers to the GOES-R product Upward Longwave Radiation: TOA)
OM	Observatory Manager
OMAS	Operational Metadata Aggregation Service
OMAT	Operational Mission Allowable Temperatures
OMB	Office of Management and Budget
OMI	Ozone Monitoring Instrument
OMPS	Ozone Mapping & Profiler Suite
OO	Object Oriented
OOD	Object Oriented Design
OORA	Object Oriented Requirements Analysis
OP	Operations Procedures
OPAL	Open Process Automation Library
OPAL	Orchestration & Provisioning Automation Library

Acronym	Definition
OPC	Ocean Prediction Center
OPC	Open Commitment
OPERA	On-demand Performance Advisor
OPNET	Optimized Network Engineering Tools
OPO	Operations Project Office (ADMP for GSPG)
OPS	Operations
OPSCON	Operations Concept
OQPSK	Offset Quadrature Phase Shift Keying
OR	Orbit Raising
ORA	Office of Research and Applications (NESDIS)
ORCA	Online Representations and Certifications Application
ORCA	Operations Readiness Checkout Activity
ORF	Orbit Reference Frame
ORIA	Office of Research Integrity and Assurance
ORM	Object-Relational Mapping
ORR	Operations Readiness Review
ORTT&C/ORTTC	Orbit Raising, Tracking, Telemetry and Command
OS	Optical Sensor
OS	Operating System
OS/COMET	Harris' Satellite Command and Control Tool Suite
OS&T	Office of Science & Technology, National Weather Service
OSB	Oracle Service Bus
OSC	On-orbit Storage Capability (LM-KO)
OSCSB	OS/COMET Service BUS
OSD	Office of Satellite Development (NESDIS)

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Acronym	Definition
OSDPD	Office of Satellite Data Processing and Distribution (NESDIS)
OSGS	Office of Satellite Ground Services/Support (NESDIS)
OSHA	Occupational Safety and Health Administration
OSHA	Operating and Support Hazard Analysis
OSI	Open Systems Interconnection
OSL	Open Source License
OSMA	Office of Safety and Mission Assurance
OSMA/SARD	OSMA/ Safety and Assurance Requirements Division (NASA)
OSO	Office of Satellite Operations (NESDIS)
OSP	Office of Strategic Planning
OSPF	Open Shortest Path First
OSPO	Occupational Safety Program Office
OSPO	Office of Satellite Processing and Operations
OSPO	Office of Satellite and Product Operations
OSR	Optical Solar Reflector
OSS	Open Source Software
OSSMA	Office of Systems Safety and Mission Assurance
OST	Over-the-Shoulder Training
OSTB	Offline Storage Transfer Buffer
OSTIA	Operational Sea Surface Current Temperature and Sea Ice Analysis
OSY	Office of Security
OTB	Over Target Baseline
OTD	Optical Transient Detector
OTIM	One-dimensional Thermodynamic Ice Model

Acronym	Definition
OTS	Off-The-Shelf
OTS	Over Target Schedule
OU	Organizational Units
OV	On-orbit verification
OV	Operator View
OVAL	Open Vulnerability Assessment Language
OVO	Open View Operations
OVP	Over Voltage Protection
P	
P/CAP	Preventive & Corrective Action Process
P&D	Playback & Display
P&M	Parts & Materials
P3I or P3I	Pre-Planned Product Improvement
PA	Performance Assurance
PA	Project Authorization
PA	Property Administrator
PA&R	Program Audit and Review (OSMA)
PAAD	Point & Alignment Allocation Document
PAC	Post-Award Conference
PACR	Planned Activity Change Request
PACS	Physical Access Control Systems
PAD	pitch-angle distributions
PAF	Payload attachment fitting
PAIMAS	Producer Archive Interface Methodology
PaL	Pause and Learn
PAL	Product Area Lead (NASA)
PAM	Pluggable Authentication Module

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Acronym	Definition
PAPL	Project Approved Parts List
PAR	POSST Anomaly Report
PATRON	Product Anomaly, Ticket, Relationship, Organization, and Notification
PB	Petabyte (10E15 bytes)
PBL	Product Baseline
PBM	Program Business Manager
PBMA	Process Based Mission Assurance
PBX	Private Bench Exchange
PC	Property Custodian
PC	Proposed Change
PCA	Primer Chamber Assembly
PCA	Project Control Administrator
PCA	Physical Configuration Audit
PCA	Program Commitment Agreement
PCB	Printed Circuit Board
PCB	Parts Control Board
PCC	Program Cost Commitment
PCCB	Program/Project Configuration Control Board
PCI	Peripheral Component Interconnect
PCLD	Probably Cloudy Restoral Test
PCLR	Probably Clear Restoral Test
PCM	Process Compliance Monitor
PCM	Project Control Manager
PCO	Procurement Contracting Officer
PCO	Project Control Office
PCP	Parts Control Program
PCRB	Program Change Review Board

Acronym	Definition
PCRT	Probably Cloudy Restorative Test
PCS	Project Control System
PD	Position Description
PD	Process Directive
PD	Product Distribution (Ground Segment Element)
PD	Preliminary Design
PDA	Percentage of defectives allowable
PDA	Product Distribution and Access
PDD	Presidential Decision Directive
PDD	Product and Data Dissemination
PDFs	probability distribution functions
PDG	Product Distribution Grid
PDL	Product Development Lead
PDL	Program Design Language
PDM	Physical Data Model
PDM	Power Distribution Module
PDM	Product Data Management
PDP	Policy Decision Point
PDR	Preliminary Design Review
PDR/KDP-C	Preliminary Design Review/Key Decision Point – C
PDRR	Program Definition and Risk Reduction
PDS	Protected Distribution System
PDSS	Product Data Storage Subsystem
PDT	Product Design Team
PDT	Product Development Team
PDU	Power Distribution Unit
PDV	Packet Delay Variable

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Acronym	Definition	Acronym	Definition
PE	Physical and Environmental Control/ Protection	PGEB	Proving Ground Executive Board
PE	Pivotal Event	PGM	Pragmatic General Multicast
PE	Program Executive	PGSM	Product Generation Service Manager
PE	Project Engineering	PH	Price History
PE	Project Event	PHA	Preliminary Hazard Analysis
PEAP	Protected Extensible Authentication Protocol	PHA	Pulse Height Analysis
PEB	Performance Evaluation Board	PHB	Per Hop Behavior
PEB	Power Electronics Box	PHSL	Program Hardware Software List
PEM	Plastic encapsulated microcircuits	PHST	Packaging, Handling, Shipping, and Transportation
PEM	Project Engineering Metrics	PI	Partially Implemented
PEP	Policy Enforcement Point	PI	Payload Interface
PER	Pre-Environmental Review	PIA	Privacy Impact Assessment
PERSIANN	Precipitation Estimation from Remotely Sensed Information using Artificial Neural Networks	PID	Proportional Integral Derivative
		PID	Process Identifier
PES	Performance Evaluation System	PIFE	Payload Interface Force & Torque
PETE	Program End-to-End	PIFT	Predicted Interface Force and Torque
PFA	Performance Flow Analyzer	PII	Personally Identifiable Information
PFA	Program Finance Administrator/Analyst	PIL	Parts Identification List
PFAAST	Pressure layer Fast Algorithm for Atmospheric Transmittances	PIND	Particle Impact Noise Detection
		PIR	Precision Infrared Radiometer
PFD	Power Flux Density	PIRATA	Prediction and Research Moored Array in the Atlantic
PFI	Percent Fully Implemented		
PFM	Proto Flight Model	PIRATE	Pre-Incident Report Anomaly Triage and Exploration
PFMFT	Positive Four Minus Five Test		
PG	Procedures and Guidelines	PIREPS	Pilot Reports
PG	Product Generation (Ground Segment Element)	PIV	Personal Identification Verification
PG	Proving Ground	PK	Primary Key
PGAA	Performance and Guidance Accuracy Analysis	PKI	Public Key Infrastructure

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Acronym	Definition
PL	Public Law
PLA	Payload Adapter
PLAR	Post-Launch Acceptance Review
PLB	Personal Locator Beacons
PLC	Programmable Logic Controllers
PLI	Percent Largely Implemented
PLISN	Provisioning List Sequence Number
PLM	Product Level Metadata
PLN	Plan
PLPT	Post-Launch Product Test
PLT	Post-Launch test
PLU	Post-Launch Update
PM	Payload module
PM	Product Monitor (Mission Management)
PM	Program Management
PM	Project Manager
PM	Propulsion Module
PMA	Preliminary Mission Analysis
PMAM	Program Mission Assurance Manager
PMB	Performance Measurement Baseline
PMC	Program Management Council (NOAA)
PMC	Pyro- Monitor Console
PMCB	Parts and Materials Control Board
PMCP	Parts and Materials Control Plan
PMD	Program Management Directive
PMD	Propellant Management Device
PMEF	Primary Mission-Essential Functions

Acronym	Definition
PMI	Preventive Maintenance & Inspection
PMO	Program/Project Management Office
PMO	Project Management Organization
PMP	Parts and Materials Program
PMP	Project Management Plan
PMR	Program Management Review
PMR	Project Management Review
PMSR	Project Management Status Review
PMU	Personal Maintenance Unit
PNG	Portable Network Graphics
PNI	Percent Not Implemented
PO	Percent Not Implemented
PO	Product Operator
POA	Point of Authority
POA&M	Plans Of Action And Milestone (Security)
POC	Point Of Contact
POC	Proof of Concept
POD	Probability of detection
POD	Production Operations Directive
POES	Polar Operational Environmental Satellites
POID	Probability of Incorrect Detection
POL	Polarity/Polarization
PON	Positive Orbit Normal
POP	Program Operating Plan
POP	Period Of Performance (Contract)
POP	Point Of Presence (Network)
POR	Power On Reset

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Acronym	Definition
PORD	Performance And Operational Requirements Document
POSIX	Portable Operating System Interface (for UNIX)
POSST	Product Operations Science Support Team
POST	Power on self test
PP	Project Plan
PP	Product Performance
ppb	Parts per billion (1E-9)
PPBES	Planning, Programming, Budgeting and Execution System
PPC	PowerPC
PPE	Project Parts Engineer
PPE	Personal Protective Equipment
PPF	Payload Processing Facility
PPG	Product Processing Grid
PPI	Percent Partially Implemented
ppm	Parts per million
PPM	Product Performance Monitor
PPRD	Payload Processing Requirements Document
PPS	Product Performance Subsystem
PPS	Pulse per second
PPS	Payload Power Supply
PPZ	Product Processing Zone
PQD	Product Quality Database
PQ Db	Product Quality Database
PQI	Product Quality Information
PQL	Product Quality Lead
PQR	Post Qualification Test Review

Acronym	Definition
PR	Peer Review
PR	Program Review
PR	Project Risk
PRA	Probabilistic Risk Assessment
PRA	Pyrotechnic Relay Assembly
PRAD	Payload Resource Allocation Document
PRB	Process Review Board
PRD	Program Requirements Documents
PRE-MSR	Pre-Monthly Status Review
PREL	Pre-launch
PRF	Performance requirements for
PRH	Peer Review Handbook
PRIMX	Program Risk Information Management exchange
PRM	Processor Redundancy Management
PRM	Program Records Management
PRN	Pseudo Random Number/Noise
PROM	Programmable Read Only Memory
PRT	Platinum Resistance Thermometers
PRT	Program Review Template
PS	Procurement Specification
PSA	Parts Stress Analysis
PSD	Power Spectral Density
PSDF	Product Sectorization and Data Formatting
PSE	Program/Project System Engineering
PSF	Point spread function
PSH	Percent Software Hazards
Psi	Pound Per Square Inch

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Acronym	Definition
PSK	Phase Shift Key/Keying
PSM	Project Safety Manager
PSM	Project Support Manager
PSO	Project Science Office
PSPEC	Performance Specification (SC/MAG F&PS)
PSPVR	Peer-Stakeholder Product Validation Review
PSR	Project Status Review
PSR	Pre-Shipment Review
PSS	Propulsion SubSystem
PSTR	Pre-Storage Review
PSU	Personal Safety Unit
PTA	Privacy Threshold Analysis
PTB	Product Team Building
PTC	Photon Transfer Curves
PTC	Passive Thermal Control
PTD	Provisional Technical Documentation
PTF	PLT Test Form
PTM	Proto Type Model
PTO	Parallel Test & Operations
PTP	Parallel Tools Platform
PTP	Periodic Technical Reviews
PTP	Point To Point
PTP	Post Test Review
PTP	Precise/Precision Time Protocol
PTR	Programmable Telemetry Processor
PTR	Program Tracking Report
PTRDOC	Program Tracking Report Document

Acronym	Definition
PTRSW	Program Tracking Report Software
PTRSYS	Program Tracking Report System
PTS	Projects Technical Staff
PUG	Product User's Guide
PV	Planned Value
PV	Potential Vorticity
PV	Pyro Valve
PVM	Parallel Virtual Machine
PVM	Performance Verification Matrix
PVP	Performance Verification Plan
PVT	Position, Velocity, Time
PVU	Processor Value Unit
PW	Precipitable Water
PWB	Printed Wiring Board
PWG	Product Working Group
PX	Positive X (+X)
PXE	Preboot Execution Environment
PXI	Peripheral Component Interconnect (PCI) eXtensions for Instrumentation
PY	Positive Y (+Y)
Q	
QA	Quality Assurance
QAL	Quality Assurance Library
QAM	Quality Assurance Manager
QAP	Quality Assurance Plan
QAR	Quality Assurance Representative
QAS	Quality Assurance Specialist
QBR	Query Based Report

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Acronym	Definition
QC	Quality Control
QCI	Quality Conformance Inspection
QCM	Quartz Crystal Microbalance
QE	Quality Engineer
QFM	Quality Functional Manual
QI	Quality Indicator
QML	Qualified Manufacturer's List
QMORPH	Quick Morphing algorithm
QMP	Quality Management Plan
QMP	Quantitative Management Plan
QMS	Quality Management System
QoS	Quality of Service
QPE	Quantitative Precipitation Estimate
QPL	Qualified Parts List
QPSK	Quadrature Phase-Shift Keying
QRO	Quality Requirements Outline
QSA	Qualification Status Assessment
QSAB	Qualification Status Assessment Board
QSAM	Quality Systems Audit Manual
QSR	Quarterly Status Review
QST	Qualification System Test
R	
R-S	Reed-Solomon
R/T	Receive/Transmit
R&D	Research and Development
R&M	Reliability and Maintainability
R&OM	Risk & Opportunity Management

Acronym	Definition
R&R	Restraint and Release
R1	Release 1
R2	Release 2
RA	Registration Authority
RA	Requirements Analysis
RAC	Risk Assessment Classification
RAC	Real Application Cluster
RAD	Resource Allocation Document
RADIUS	Remote Authentication Dial In User Service
RaFTR	Resample and Format, Timed Release
RAL	Reverberant Acoustics Laboratory
RAM	Resource Allocation Matrix
RAM	Random Access Memory
RAM	Requirements Allocation Matrix
RAM	Responsibility Assignment Matrix
RAOB	Radiosonde Observation
RAP	Regional Analysis and Prediction
RAS	Reliability, Availability, and Serviceability
RATS	Request For Action Tracking System
RB	radiation budget
RBAC	Role-Based Access Control
RBCA	Risk Based Cost Analysis
RBDA	Risk Based Decision Assessment
RBS	Resource Breakdown Structure
RBSA	Risk Based Schedule Analysis
RBU	Remote Backup Station
RCA	Request for Corrective Action

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Acronym	Definition
RCCAPA	Root Cause Corrective Action and Preventive Action
RCM	Reliability Centered Maintenance
RCP	Right Circular Polarized
RCVR	Receiver
RCWG	Requirements Control Working Group
RD	Restricted Data
RDBMS	Relational Database Management System
RDC	Relay Driver Card
RDDP	Reliable Dissemination Data Protocol (LM-KO)
RDL	Raw Data Link
RDM	Raw Data Modulator
RDM	Radiation Dose Margin
RDR	Raw Data Recorder
RDR	Ryco Development and Research
RDW	Request for Deviation or Waiver
RE	Radiation Engineer
RE	Recurring Engineering
REA	Rocket Engine Assembly
REALM	Regional East Atmospheric Lidar Mesonet
REC	Record of Environmental Consideration
REMB	Resource and Engineering Management Board
REQM	Requirements Management
REST	REpresentational State Transfer
RF	Radio Frequency
RFA	Request For Action
RFC	Request For Change
RFC	Request for Comments

Acronym	Definition
RFC	River Forecast Centers
RFCT	RF compatibility test
RFI	Radio frequency interference
RFID	Radio Frequency Identification
RFMFT	Relative Four Minus Five Test (cloud detection test)
RFP	Request For Proposal
RFQ	Request for Quotation
RFTE	RF Test Equipment
RGB	Red Green Blue
RGCT	Reflectance Gross Contrast Test (Cloud Detection Test)
RH	Relative humidity
RHCP	Right-Hand Circular Polarization
RHEL	Red Hat Enterprise Linux
RHEV	Red Hat Enterprise Virtualization
RHEV-H	Red Hat Enterprise Virtualization - Hypervisor
RHEV-M	Red Hat Enterprise Virtualization - Manager
RHN	Red Hat Network
RIDM	Risk Informed Decision Making
RIS	Risk information sheet
RISTM	Reduced Integrated Spacecraft Thermal Model
RIU	Remote Interface Unit
RLAT	Radiation Lot Acceptance Test
RM	Reliability Manager
RM	Requirements Management
RM	Risk Management/Manager
RMA	Reliability, Maintainability, And Availability

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Acronym	Definition
RMAN	Recovery Manager
RMAP	Remote Memory Access Protocol
RMAPP	Reliability Maintainability Availability Program Plan
RMB	Risk Management Board
RMC	Redundancy Management Card
RMI	Ranging Mode Index
RMIS	Risk Management Information System
RMM	Radiometric Math Model
RMM	Release MM
RMMU	Release MM Update
RMON	Remote Network Monitoring
RMP	Requirements Management Plan
RMP	Risk Management Plan
RMs	Records Managers (Program)
RMS	Research Microwave System
RMS	Resources Management System
RMS	Requirements Management System
RMS	Root Mean Square
RMT	Resource Modeling Tool (part of MMM)
RO	Risk Owner
ROA	Return On Assets
ROI	Return On Investment
ROIC	Read Out Integrated Circuit
ROLO	RObotic Lunar Observatory
ROM	Rough order of magnitude (Ground)
ROM	Read Only Memory
ROMB	Risk/Opportunity Management Board

Acronym	Definition
ROMT	Risk/Opportunity Management Team
ROP	Recommended Operating Procedure
RPIE	Real property installed equipment
RPM	Redhat Package Manager
RPM	Replacement Product Monitor
RPO	Recovery Point Objective
RPP	Reliability Program Plan
RPT	Report
RR	Rainfall Rate
RRB	Risk Review Board
RRCC	Rainfall Rate per Cubic Centimeter
RRPE	Rainfall Rate Precipitation
RRR	Release Readiness Review
RRT	Risk Reduction Testing
RS FEC	Reed Solomon Forward Error Correction
RS422	Recommended Standard 422
RSA	Rationale Software Architect
RSM	Rational Software Modeler
RSR	Reflected Shortwave Radiation: Top of Atmosphere
RSS	Range Safety System
RSS	root sum square
RSVP	Resource Reservation Protocol
RT	Radiative Transfer
RT	real-time
RTCS	Relative Time Command Sequence
RTCT	Relative Thermal Contrast Test (cloud detection test)
RTD	Resistance Temperature Detector

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Acronym	Definition
RTEMS	Remote Tivoli Enterprise Management Server
RTEP	Real-Time Event Processor
RTG	Real Time Global
RTG_SST	Real Time Global Sea Surface Temperature
RTL	Risk Tracking Log
RTM	Radiative Transfer Model
RTM	Reduced Thermal Model
RTM	Requirements Traceability Matrix
RTO	Ready To Operate
RTO	Recovery Time Objective
RTOFS	Real Time Ocean Forecast System
RTOS	Real Time Operating System
RTP	Re-engineered Test Program
RTS	Relative Time Sequence
RTTOV	Radiative Transfer for TIROS Operational Vertical Sounder
RTVM	Requirements Traceability Verification Matrix
RUC	Rapid Update Cycle
RUT	Reflectance Uniformity Test
RVCT	Relative Visible Contrast Test
RVM	Requirements Verification Matrix
RVS	Raytheon Vision Systems
RVT	Release Verification Test
RVTM	Requirements Verification Traceability Matrix
RW	Rolling Wave
RWA	Reaction Wheel Assembly
RX	Receiver
S	

Acronym	Definition
S	South
S-G	Space To Ground
S/A	Solar Array
S/C	Spacecraft
S/C	Sub Contract
S/C F&PS	Spacecraft Functional and Performance Specification
S/MIME	Secure/Multipurpose Internet Mail Extensions
S/NA	System & Network Administrators
S/W	Software
S&ES	Sensing and Exploration Systems
S&MA	Safety & Mission Assurance
SA	Science Algorithm
SA	Security Assessments
SA	Software Assurance
SA	Solar Array
SA	Submission Agreements
SA	System Administrator
SA	Systems & Services Acquisition
SAB	Satellite Analysis Branch
SAB	Satellite Applications Branch
SAC	Supplier Assurance Contract
SAD	solar array drive
SAD	System Advisory Board
SADA	Solar Array Drive Assembly
SADM	Solar Array Deployment Mechanism
SADT	Structured Analysis and Design Technique

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Acronym	Definition
SAIC	Science Applications International Corporation
SAISO	Senior Agency Information Security Officer
SALT	S-405 ArcJet Life test
SAM	Software Assurance Manager
SAMI	Sources and Methods Information
SAML	Security Assertion Markup Language
SAN	Storage Area Network
SAO	Systems Assurance Office
SAO	Systems Acquisition Office
SAP	Security Accreditation Package
SAP	Security Assessment Plan
SAP	Software Assurance Plan
SAP	Systems Applications and Products
SAPR	Simulator Anomaly Problem Report
SAPR	Software Anomaly Problem Report
SAR	System Acceptance Review
SAR	Security Assessment Report
SAR	Search And Rescue
SARB	Surface and Atmospheric Radiation Budget
SARD	Safety and Assurance Requirements Division
SARR	Safety Assurance Readiness Review
SARSAT	Search and Rescue Satellite Aided Tracking
SAS	Serial Attached SCSI
SAS	Solar Array Shunt (LM-KO)
SASC	Solar Array Simulation Console
SAST	Simulated Antenna System Terminal
SAST	Spacecraft All-Software Testbed

Acronym	Definition
Sat	Satellite
SAT	Site Acceptance Test
SATA	Serial Advanced Technology Attachment
SATCON	Satellite Controller
SATERN	System for Administration, Training and Educational Resources for NASA
SATOPS	Satellite Operations
SATS	Solar Array Telemetry Simulator
SatSim	Satellite Simulator
SAWA	Solar Array Wing Assembly
SB	Scientific Boundary
SBA	Service Based Architecture
SBB	Space Support Building (LM-KO)
SBC	Single board computer
SBIR	Small Business Innovation Research
SBIRS	Space Based Infrared System
SBT	S-band Transponder
SBT	Space Based Transmitter
SBU	Sensitive but Unclassified
SC	Spacecraft
SCA	Security Control Assessor
SCADA	Supervisory Control and Data Acquisition
SCAMPI	Standard CMMI Appraisal Method for Process Improvement
SCaMPR	Self-Calibrating Multivariate Precipitation Retrieval
SCAP	Security Content Automation Protocol
SCBA	Self-contained breathing apparatus
SCCB	Software Configuration Control Board

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Acronym	Definition	Acronym	Definition
SCD	Source Control Drawing	SDEB	Science & Demonstration Executive Board
SCEP	Simple Certificate Enrollment Protocol	SDF	Software Development Folder
SCF	Sun-Pointing Platform (SPP) Coordinate Frame	SDK	Software Development Kit
SCFPS	Spacecraft Functional and Performance Specification	SDL	Software Development Library
		SDLC	Software Development Life Cycle
SCI	Scalable Coherent Interface	SDLC	System Development Life Cycle
SCID	Spacecraft Identifier	SDM	Scalable Data Management
SCM	Software Configuration Management	SDM	Structured Design Methodology
SCMAR	Spacecraft Mission Assurance Requirements	SDO	Solar Dynamics Observatory
SCMGT	Security and Compliance Management	SDO/AIA	SDO/ Atmospheric Imaging Assembly
S-CMI	Sectorized Cloud & Moisture Imagery	SDO/EVE	SDO/ Extreme Ultraviolet Variability Experiment
SCMP	Subcontract Management Plan	SDP	Safety Data Package
SCN	Spacecraft Navigation	SDP	Software Development Plan
SCOUTS	Spacecraft Checkout Universal Test System	SDR	System Design Review
SCP	Stored Command Processing	SDR	Sensor Data Record
SCR	System Concept Review	SDR	System Definition Review
SCR	Service Component Repository	SDRL	Subcontractor Data Requirement List
SCSI	Small Computer System Interface	SDRL	Supplier Data Requirements List
SCT	Solar Calibration Target	SDRWG	SE and Development Risk Working Group
SCTS	Spacecraft Command & Telemetry Simulator	SDS	System Design Specification
SCTV	Spacecraft Thermal Vacuum	SDT	Subjective Dvorak Technique (CCR 1528)
SCU-R	System Communications Unit- Replacement	SDVE	Software Development and Validation Environment
SCVP	Simple Certificate Validation	SDVOSB	Service-Disabled Veteran-Owned Small Business
SD	Sensor data	SE	Systems Engineer (-ing)
SD	solar diffuser	SE&I	Systems Engineering and Integration
SD	System Design	SEA	Systems Engineering Analysis
SDC	Software Development Course	SEB	Source Evaluation Board
SDD	Software Design Description		

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Acronym	Definition
SEB	SUVI Electronics Box
SEC	Security
SEC	Space Environment Center (NOAA)
SECA	SEISS EHIS L1B Calibration Algorithm
SECO	Safety and Environmental Compliance Office
SECO	Second Engine Cutoff
SED	Shipper's Export Declaration
SEE	Single-Event Effect
SEE	Software Engineering Environment
SeeBor	Former name for U. Wisconsin Baseline fit surface emissivity database retrieved from MODIS observations
SEER/SEM	System Evaluation and Estimation of Resources/Software Estimating Model
SEGA	Sun-pointing Platform (SPP) Elevation Gimbal Assembly
SEI	Software Engineering Institute
SEISS	Space Environment In-Situ Suite
SEIT	Systems Engineering, Integration and Test
SEL	Single Event Latch-up
SELTS	Self-Test Software
SEM	Space Environment Monitor
SEM	Software Engineering Model
SEMP	Systems Engineering Management Plan
SensorML	Sensor Markup Language
SEP	Solar Energetic Particle
SEPG	Software Engineering Process/Productivity Group
SEPT	System Functional and Performance Test

Acronym	Definition
SET	Systems Engineering Team
SET	Single Event Transient
SETA	System Engineering and Technical Assistant /Assistance
SEU	Single Event Upset
SEVIRI	Spinning Enhanced Visible and Infrared Imager
SEWG	Systems Engineering Working Group
SFC	earth surface
SFCG	Space Frequency Coordination Group
SFG	System Focus Group
SFIA	Space Flight Independent Assurance (KSC)
SFP	Small Form-factor Pluggable
SFP	Sure-Fire Panel
SFT	Short Functional Test
SFT	System Functional Test
SFTP	Secure File Transfer Protocol
SFTP	Secure Shell (SSH) File Transfer Protocol
SG	Steering Group
SG-ICD	Space To Ground Interface Control Document
SGC	Space Ground Communications
SGCI	Space Ground Communications Interface
SGE	Solar Array Gimbal Electronics
SGE	Sun Grid Engine
SGIS	Spacecraft General Interface Specification
SGIWG	Space-Ground Interface Working Group
SGLS	Space-Ground Link System
SGLT	Space-Ground Link Terminal
SGP	Southern Great Plains

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Acronym	Definition
SGPS	Solar And Galactic Proton Sensor (SEISS)
SGS	Svalbard Ground Station
SHA	Secure Hashing Algorithm
SHCM	Software Hazard Criticality Matrix
S-HIS	Scanning High-Resolution Interferometer Sounder
SHM	Safe Hold Mode
SHS	Secure Hash Standard
SI	Scaled integer
SI	Showalter Index
SI	System integration
SI	International System Of Units (Systeme Internationale)
SI	System and Information Integrity
SIA	Security Impact Analysis
SiC	Silicon Carbide
SIEM	Security Information and Event Manager
SIF	Spacecraft Interface
SIFC	Serial Interface Card
SIIS	Spacecraft to Instrument Interface Simulator
SIM	Security Information Management
SINDA	System Improved Numerical Differencing Analyzer
SIP	System Integration Plan
SIQT	Software Item Qualification Test
SIQT	Software Integration and Qualification Test
SIR	System Integration Review
SIR	Segment Integration Review (Ground Segment)
SIR (Ground Segment)	Segment Integration Review

Acronym	Definition
SIRCUS	Spectral Irradiance and Radiance Responsivity Calibrations using Uniform Sources
SIRD	System Interface Requirements Document
SIS	Solar Imaging Suite
SIS	System Interface Specification
SISSL	Sun Industry Standards Source License
SIST	Solar-Infrared Split-Window Technique
SIT	Select- In Test
SI&T	Site Integration and Test
SIU	Sun-pointing system Interface Unit
SK	Station Keeping
SKMP	System Key Management Plan
SL-GMS	Sherrill-Lubinski Graphical Modeling System
SLA	Service-Level Agreement
SLA	Source Logical address
SLA	SpaceWire Logical Address
SLC	Space Launch Complex
SLCC	Satellite Launch Commit Criteria
SLCC	SW logical lines of code
SLE	Space Link Extension
SLFM	System Level Fault Management
SLI	Second Level Integration
SLIM	Software Lifecycle Management
SLOC	Source Lines Of Code
SLW	Super-cooled Liquid Water
SM	Suspended Matter
SM	Structural Model

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Acronym	Definition
SM	System Module
SMA	Space and Military Avionics
SMA	Safety and Mission Assurance
SMA	Shape Memory Alloy
SMA	Switch Matrix Assembly
SMAL	Software Mission Assurance Lead
SMAOD	Suspended Matter, Aerosol Optical Depth
SMAP	Safety and Mission Assurance Plan
SMAR	Safety and Mission Assurance Readiness Review
SMAR	Subcontract Mission Assurance Requirements
SMD	Science Mission Directorate (NASA)
SMDAA	Science Mission Directorate Associate Administrator (NASA)
SMDP	Software Management & Development Plan
SME	Subject Matter Expert
SMHCA	SEISS MPS-Hi L1 Calibration Algorithm
SMLCA	SEISS MPS-LO L1 Calibration Algorithm
SMM	Software Maintenance Manual
SMO	Systems Management Office
SMP	Schedule Management Plan
SMP	Software Management Plan
SMP	Symmetric Multi Processing
SMPC	System Module Power Console
SMR	Source Maintainability, and Recovery Code
SMRT	Senior Management Review Team
SMS	Session Management Service
SMSR	Safety and Mission Success Review
SMT	Senior Management Team

Acronym	Definition
SMT	Subcontract Management Team
SMTP	Simple Mail Transfer Protocol
SMTL	Special Mission Time Line
SN	Space Network
SNAC	Systems and Network Attack Center
SNIA	Storage Networking Industry Association
SNMP	Simple Network Management Protocol
SNODAS	Snow Data Assimilation System (NOHRSC)
SNOTEL	Snow Telemetry network (Natural Resources Conservation Service)
SNR	Signal-to-noise ratio
SO	Staff Office
SO	System Owner
SOA	Service Oriented Architecture
SOAP	Simple Object Access Protocol
SOC	Science Operations Center
SOCC	Satellite Operations Control Center
SODAR	Sonic Detection and Ranging
SOE	Sequence of events
SOE	Standards of Excellence
SOE	Sequence of Events
SOGUD	Satellite Operations Graphical User Display
SOH	State Of Health
SOH	Satellite Operations Handbook
SOHO/EIT	Solar and Heliospheric Observatory/Extreme ultraviolet Imaging Telescope
SOMD	Space Operations Mission Directorate
SoNAS	Sale out Network Attached Storage

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Acronym	Definition
SONG	Schedule Oversight and Negotiation Group (GSP)
SOP	Standard Operating Procedure
SOPS	Satellite Operations
SOW	Statement of Work
SOZ	Satellite Operations Zone
SOZDMZ	Satellite Operations Zone De-Militarized Zone
SOZnet	Satellite Operations Zone Network
SP	Special Publication
SPARC	Scalable Processor Architecture
SPC	Storm Prediction Center
SPD	System Program Director
SPDS	VCRM Responsible group for Validation Activities/Artifacts
SPE	Solar Proton Event
SPF	Single Point Failure
SPG	Single Point Ground
SPI	Schedule Performance Index
SPIB	Software Process Improvement Board
SPLF	Symmetrical Prominent Low Frequencies
SPM	Subcontract Project Manager
SPORT	Short-term Prediction Research and Transition Center
SPOT	System Performance and Operations Test
SPP	Sun-Pointing Platform
SPR	Software Problem Report
SPR	Solar Radiation Pressure
SPRU	Scalable Power Regulation Unit
SPS	Samples Per Second

Acronym	Definition
SPS	Solar Position Sensor (EXIS)
SPS	Standby Policy Server
SPS	Sun Pointing System/Subsystem
SPSRB	Satellite Product and Services Review Board
SPVP	System Performance Verification Plan
SpW	SpaceWire
SpWRC	SpaceWire Router Card
SQ	Software Quality
SQ	Supplier Quote
SQA	Software Quality Assurance
SQAP	Software Quality Assurance Plan
SQE	Software Quality Engineer
SQL	Structured Query Language
SQPSK	Staggered Quadrature Phase Shift Keying
SQR	Software Qualification Review
SR-IOV	Single Root – IO Virtualization
SR	Status review
SR	Service Request
SR	System Requirement
SRA	Schedule Risk Assessment
SRAM	Static Random Access Memory
SRAS	Secure Remote Access Server
SRB	Schedule Review Board
SRB	Software Review Board
SRB	Solid Rocket Booster
SRB	Standing Review Board
SRD	System Requirements Document

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Acronym	Definition
SRF	Spectral Response Function
SRIF	Square Root Information Filter
SRND	Solution Reference Network Design
SRP	Solar Radiation Pressure
SRP	System Review Plan
SRR	System Readiness Review
SRR	Security Readiness Review
SRR	System Requirements Review
SRRC	Square Root Raised Cosine Filter
SRS	Shock Response Spectra
SRS	Supplier Rating System
SRS	Software Requirements Specification
SRT	System Review Team
SS	Skill Score
SS	Space Segment
SSA	Source Selection Authority
SSAS	Ship Security Alerting System
SSB	Space Support Building
SSCA	SEISS SGPS L1 Calibration Algorithm
SSD	SCADA Security Domain
SSD	Solid State Device/Detector
SSD	Space Systems Division
SSD	Sum of squared differences
SSE	System Support Engineering
SSE	System Safety Engineering
SSE	Systems Security Engineering
SSEC	Space Science Engineering Center (University of Wisconsin-Madison)

Acronym	Definition
SSGS	Spacecraft Support Ground System (GOES-N/O/P)
SSH	Secure Socket Shell
SSHD	Secure Shell Daemon
SSIRU	Scalable Space Inertial Reference Unit
SSL	Secure Sockets Layer
SSL	Space Simulation Laboratory
SSL	Space Systems Lab
SS&MA	System Safety and Mission Assurance
SSM/I	Special Sensor Microwave/Imager
SSMIS	Special Sensor Microwave Imager Sounder
SSO	Source Selection Official
SSO	Single Sign On
SSO	Special Security Office
SSP	Sub Satellite Point
SSP	System Security Plan
SSPA	Solid State Power Amplifier
SSPO	Systems Safety Program Office
SSPP	System Safety Program Plan
SSR	Satellite Storage Review
SSR	Swath to Swath Registration
SSRD	Split Spool Release Device
SSS	Sub System Specification
SST	Sea Surface Temperature
SSTC	Sea Surface Temperature Compositing Algorithm
ST&C	Satellite Telemetry and Command Handbook
ST&E	Security Test and Evaluation
STA	Star Tracker Assembly

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Acronym	Definition
STAR	Center for Satellite Applications and Research
STD	Standard
STE	System Test Equipment
STEM	Science, Technology, Engineering, and Mathematics
STEREO	Solar Terrestrial Relations Observatory
STI	Scientific and Technical Information
STIG	Security Technical Implementation Guide
STIWG	Satellite Telemetry Interagency Working Group
STK	Satellite Tool Kit
STM	Safe To Mate
STNI	Segment Test Name Identifier
STOL	Satellite Test and Operations Language (GLM)
STOP	Structural, Thermal, Optical, Performance
STORMnet	NSSTC Severe Thunderstorm NSSTC Severe Thunderstorm Observations and Research Meteorological network
STP	Software Test Plan
STR	Software Test Report
STRD	System Test Requirements Document
STS	Space Transportation System
STS	SUVI Telescope System
STS	Short Term Storage
STT	Small Tactical Terminal
SU	Sensor Unit (GLM)
SU	Start Up
SUM	Software User Manual
SURFRAD	SURFace RADiation Program/Budget

Acronym	Definition
SUROM	Startup Read Only Memory
SUST	Sustainment Engineering
SUVI	Solar Ultraviolet Imager
SUVI GT	SUVI Guide Telescope
SV	Schedule Variance
SV	Space Vehicle
SV&V	Software Verification & Validation
SVC	SAN Volume Controller
SVCDSK	Service Desk
SVD	Software Version description
SVD	Software Verification Description
SVT	System Validation Test
SVU	SAP Version Update
SVVP	Software Verification & Validation Plan
S/W	Software
SW	Short Wave
SW/M	Severe Weather / Mesoscale
SW/T	Software Integration & Test
SWAMP	Software Acquisition Management Plan
SWAROM	SpaceWire ASIC Read-Only Memory
SWAT	Software Acceptance Test
SWCCB	Software Configuration Control Board
SWCDR	Software Critical Design Review
SWCM	Software Configuration Management
SWDD	Software Detailed Design
SWE	Software Engineering
SWEHB	Software Engineering Handbook NASA

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Acronym	Definition
SWEWG	Software Engineering Working Group
SWG	Safety Working Group
SWG	Security Working Group
SWH	System Warrant Holder
SWIR	Short Wave IR
SWIT	Software Integration and Test
SWORD	SpaceWire Operations Run or Discontinue
SWPC	Space Weather Prediction Center (was Space Environment Center - SEC)
SWPD	Software Preliminary Design Review
SWPDR	Software Preliminary Design Review
SWQR	Software Qualification Review
SWRA	Software Requirements Analysis
SWRC	Space Wire Router Card (LM-KO)
SWRR	Software Requirement Review
SWRS	Software Requirements Specification
SWS	Solar Wing Subsystem
SWTRR	Flight Software Test Readiness Review
SWUPD	Software Update Service
SXI	Solar X-Ray Imager (GOES-N/O/P)
SYSDBA	System Data Base Administrator
SYSOPR	System Operator
SZA	Solar Zenith Angle
T	
T-8 hrs	8 Hours
T/V	Thermal Vacuum
T&C	Telemetry and Command
T&C	Terms and Conditions

Acronym	Definition
T&E	Test and Evaluation
T&M	Time and Material
T3	Tier 3 (Service Model)
T4	Tier 4 (Service Model)
TA	Technical Authority
TAA	Technical Assessment Agreements
TAD4D	Tivoli Asset Discovery for Distributed
TADDM	Tivoli Application Dependency Discovery Manager
TAFB	Tropical Analysis and Forecast Branch
TAM	Tivoli Access Manager
TAMDAR	Tropospheric Airborne Meteorological Data Reporting (CCR 1528)
TAMIT	Tivoli Asset Management for IT
TAN	Tape Area Network
TAP	Technical Advisory Panel
TARANIS	Tool for the Analysis of RAdiation from lightNIng and Sprites CNES France
TAT	Time-at-Tone (GLM)
TB	Thermal Balance
TBC	To Be Confirmed
TBD	To Be Determined
TBP	To Be Provided
TBR	To Be Resolved
TBS	To Be Specified / Supplied
TBX	The aggregation of TBD, TBR, TBS
TC	Tropical cyclone
TC	Telecommand
TC	Temperature Coefficient

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Acronym	Definition	Acronym	Definition
TC	Test Coupler	TE	Tripwire Enterprise
TC/IFA	Test Coupler / Input Filter Assembly	TED	Triple Error Detection
TC/OFA	Test Coupler / Output Filter Assembly	TEMA	Telemetry Event Macro Activities
TCC	Test Conductor Console	TEMA	Tivoli Enterprise Monitoring Agent
TCC	Test Control Center	TEMP	Test and Evaluation Master Plan
TCFC	Tropical Cyclone Forecast Center	TEMPIR	Temporal Infrared Test (cloud uniformity test)
TCO	Total column ozone	TEMS	Tivoli Enterprise Monitoring Server
TCO	Total Cost of Ownership	TEP	Transport End Point
TCOM	Total Cost Of Material	TEP	Tivoli Enterprise Portal
TCP	Transmission Control Protocol	TEPS	Tivoli Enterprise Portal Server
TCP/IP	Transmission Control Protocol/internet protocol suite	TES	Tropospheric Emission Spectrometer
TCPI	To Complete Performance Index	TF	Transfer frame
TCR	Tivoli Common Reporting	TFLOP	Tera (trillion) Floating Point Operations per Second
TCS	Thermal Control System	TFRS	Timing Frequency and Reference System
TD	Test Director	TFTP	Tropopause Folding Turbulence Prediction
TD	Thermal Desktop	TFTP	Trivial File Transfer Protocol
TDAS	Test Data Analysis System	TGCT	Thermal Gross Contrast Test
TDD	Test Design Document	TH&SA	Transition, Handover, and System Acceptance
TDEA	Triple Encryption Algorithm	THC	Total Hydrocarbons
TDM	Time Division Multiplexing	TIC	Trusted Internet Connection
TDMA	Time Division Multiple Access	TID	Total Ionizing Dose
TDP	Technology Development Plan	TIFDS	Test Inject Intermediate Frequency Distribution Switching (IFDS)
TDP	Technical Data Package	TIM	Technical Interface Meeting
TDRS	Tracking and Data Relay Satellite	TIM	Technical Interchange Meeting
TDS	Tivoli Directory Service	TIM	Tivoli Identity Manager
TDW	Tivoli Data Warehouse	TIP	Tivoli Integrated Portal
TDWR	Terminal Doppler Weather Radar	TIP	Thermal Inspection Procedure

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Acronym	Definition
TIR	Thermal infrared
TIROS	Television Infra-Red Observation Satellite
TIS	Test inject switch
TKO	Technical Kick Off
TLE	Two Line Elements
TLM	Telemetry
TLM	Telemetry Processing Facility
TLMT	Trending and Limit-Monitoring Tool
TLS	Transport Layer Security
TLYF	Test Like You Fly
TM	Technical Manual/Memo
TM	Telemetry
TMI	Tropical Rainfall Measuring Mission (TRMM) Microwave Imager
TML	Total Mass Loss
TMM	Thermal Math Model
TMON	Telemetry Monitor(ing)
TMOVS	Modes of Operation Validation System for the Triple Data Encryption Algorithm
TMR	Triple Modular Redundancy
TMT	Tool, Methodologies, Technology
TN	Technical Note
TNC	Threaded Neill-Concelman
TNCF	Test Network Control Facility (AWIPS)
TNPFA	Trivoli Netcool Performance Flow Analyzer
TO	Test Objective
TO	Transportation Officers
TOA	Top Of the Atmosphere

Acronym	Definition
TOD	True Of Date
TOM	Transition to Operations Manager
TOP	Transition to Operations
TOPs	Technical Operating Procedures
ToR	Terms of Reference
ToS	Types of Service
TOTO	Total-totals
TOVS	TIROS Operational Vertical Sounder
TOY	Time of Year
TP	Test Procedure
T-PARC	THORPEX Pacific Asian Regional Campaign
TPC	Test Pattern Conversion
TPC	Tivoli Storage Productivity Center
TPC	Tropical Prediction Center
TPM	Technical Performance Metrics/Measures
TPMS	Technical Performance Measurement System
TPW	Total Precipitable Water
TQCM	Temperature-Controlled Quartz Crystal Microbalance
TRACE	Transition Region and Coronal Explorer
TRASYS	Thermal Radiation Analyzer System
TRD	Technical Requirements Document
TRD	Test Requirements Document
TRL	Technology Readiness Level
TRM	Technical Reference Model
TRMM	Tropical Rainfall Measurement Mission satellite
TRR	Test Readiness Review
TRS	Time & Reference System

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Acronym	Definition
TRSM	Tivoli Service Request Manager
TSA	Thermal Shield Assembly
TSA	Tivoli System Automation
TSA/MP	Tivoli System Automation / Multi-Platform
TSIM	Test Simulator
TSM	Tivoli Storage Manager
TSMDB	Tivoli Storage Manager Database
TSRD	Thermal Subsystem Requirements Document
TSRM	Tivoli Service Request Manager
TSSR	Transfer Standard Stability Radiometer
TT	Total Totals Index (ACP stability index)
TT&C	Telemetry, Tracking, and Command
TTC	Telemetry, Tracking, and Command
TTL	Time To Live
TTRS	Time To Restore Service
TURFTS	TDRSS User RF Test Set
TUT	Thermal Uniformity Test
TV	Thermal Vacuum
TVAC	Thermal Vacuum
TWG	Telemetry Working Group
TWH	Technical Warrant Holder
TWT	Traveling Wave Tube
TWTA	Traveling Wave Tube Assembly
TX	Transceiver
TXR	Thermal Infrared Transfer Radiometer
U	
U/L	Uplink

Acronym	Definition
UAH	University of Alabama Huntsville
UART	Universal Asynchronous Receiver/Transmitter
UAV	unmanned aerial vehicle
UC	Use Case
UDF	Unit Development Folder
UDF	Universal Disk Format (used for CDs, DVDs, etc.)
UET	User education and training
UHF	Ultra High Frequency
UI	User Interface
UIID	Unique Instrument Interface Document
UIM	Unified Infrastructure Management
UL	Underwriters Laboratory
ULA	Unique Local Address
ULA	United Launch Alliance
ULDL	Uplink/Downlink
ULST	Uniform Low Stratus Test (cloud detection test)
ULW	Upward Longwave radiation, refers to the GOES-R product Upward Longwave Radiation: Surface
UMBC	University of Maryland Baltimore County
UMD	University of Maryland
UML	Unified Modeling Language
UND	University of North Dakota
UNH	University of New Hampshire
UPN	Unique project number
UPS	Unique Payload Services
UPS	Uninterruptible Power Supply
URI	Unique Resource Identifier
URL	Uniform Resource Locator

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Acronym	Definition
US	Under Secretary for Oceans and Atmosphere
US-CERT	United States Computer Emergency Readiness Team
USAF	United States Air Force
USB	Universal Serial Bus
USC	United States Code
USC	Umbilical Support Console
USF	User Services Functionality
USFS	US Forest Service
USGS	United States Geological Survey
USML	United States Munitions List
USN	Universal Space Network
USN/NEN	Universal Space Network/Near Earth Network
USSPACECOM	United States Space Command
UTC	Coordinated Universal Time
UTF	Unicode Transformation Format
UTR	Unit Test Review
UW	University of Wisconsin
V	
V/T	Voltage/Temperature
V&V	Verification and Validation
V3	Virtual System Design Environment (GSFC)
VA	Validation Authorities
VAAC	Volcanic Ash Advisory Centers
VAC	Variance at Completion
VAGL	Vendor-Allocated Ground Latency
VAL	Validation
VC	Visually clean

Acronym	Definition
VC	Virtual Channel
VCDU	Virtual Channel Data Unit
VCI	Vegetation Condition Index
VCID	Virtual Channel ID
VCRM	Validation Cross Reference Matrix
Vdc	Volts-Direct Current
VDD	Version Description Document
VDR	Verification Design Review
VFM	vertical feature mask
VHF	Very High Frequency
VIF	Vertical Integration Facility
VII	Visual Information Initiative
VIIRS	Visible/Infrared Imager/Radiometer Suite
VIMF	Virtual Instrument Mounting Frame
VIS	Visible
VISIT	Virtual Institute for Satellite Integration Training
VISSR	Visible/Infrared Spin Scan-Radiometer
VLAN	Virtual LAN
VM	Virtual Machine
VMF	Virtual Mounting Frame
VNC	Virtual Network Computing
VNIR	Visible Near-Infrared
VO	Validation/Verification Objectives
VOB	Versioned Object Base
VoIP	Voice over Internet Protocol
VOSB	Veteran Owned Small Business
VP	Vice President

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Acronym	Definition
vPC	Virtual Port Channel
VPN	Virtual Private Network
VPOL	Vertical Polarization
VR1	Class 1 Variance
VR2	Class 2 Variance
VRF	Virtual Routing & Forwarding
VRQ	Hardware Qualification Variance
VSCS	Voice Shifting & Control System
VSDE	Virtual System Design Environment
VSWR	Voltage Standing Wave Radio
VTL	Verification Tracking Log
VXR	Visible/Near Infrared Transfer Radiometer
W	
W	West
WA	Work Assignment
WA	Work Authority
WAD	Work Authorizing Document
WAM	WR Analysis Meeting
WAN	Wide Area Network
WAS	Web Application Server
WB	White Box
WBS	Work Breakdown Structure
WCA	Worst Case Analysis
WCDA	Wallops Command and Data Acquisition
WCDAS	Wallops Command and Data Acquisition Station
WCE	Worst-case estimate
WCRP	World Climate Research Programme

Acronym	Definition
WDT	Watch Dog Timer
WDR	Wet Dress Rehearsal (KSC)
WEFAX	Weather Facsimile
WF-ABBA	Wildfire Automated Biomass Burning Algorithm
WES	Weather Event Simulator
WFC	Wide field collimator
WFF	Wallops Flight Facility
WFMO	Workforce Management Office
WFO	Weather Forecast Offices
WG	Working Group
WGC	Work Group Collaboration
WGCV	Working Group on Cal/Val
WI	Watch Item
WI	Work Instruction
WIC	Workstation In Charge
WIFR	Within frame registration
WL	West Longitude
WLS	Web Logic Server
WMO	World Meteorological Organization
WO	Work Order
WOA	Work Order Authorization (GSFC)
WOFT	Work Order Flow Tag
WOG	Work Order Generation
WPA	Warehouse Proxy Agent
WR	Waveguide Rectangular
WR	Western Range
WR	Work Request

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Acronym	Definition
WRAP	Wildfire Research and Applications Partnership (Rochester, NY)
WRED	Weighted Random Early Detection
WRF	Weather Research and Forecasting (model)
WRT	With respect to
WS	Web Service (messaging)
WS	Winter Solstice
WS	Work Station
WSC	White Sands Complex
WSDL	Web Service Description Language
WV	Water vapor
WVSS-II	Water Vapor Sensing System II
WWB	World Weather Building
WWLLN	World-Wide Lightning Location Network
WXE	Wideband and Multiuse Data Link Extractor
X	
XGOHI	Extended GOES High Inclination
XML	Extensible Markup Language
XMTR	Transmitter
XRS	X-Ray Sensor
XSD	XML Schema Definition
XSLT	Extensible Stylesheet Language Transformations
XTCE	Extensible Markup Language Telemetric and Command Exchange
XTCE	XML Telemetry and Command Exchange
Z	
ZRQD	Zones of Reduced Quality Data

Acronym	Definition
(CCR 1528) *(CCR 3020)*	

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