

Term	Abbreviation	Definition	Category	Modified at
A Surveillance System for Assessing and Monitoring of Desertification	DeSurvey	EU funded Integrated Project, Duration: 2005-2010, see also: <a href="http://www.desurvey.net/">http://www.desurvey.net/</a>	Organizations	2009-02-23
Absolute Geo-Location Accuracy		Difference between the calculated position of any spatial sample and its true position on the reference geoid. This will usually be simply designated as geo-location accuracy.	Technical - Data Management	2009-02-23
Absolute radiometric calibration		Process of determining the relation between the sensor digital counts and true physical units. Absolute radiometric calibration is characterised by its accuracy.	Technical - Calibration/Validation	2009-02-23
Absorbed Photosynthetic Active Radiation	APAR		Applications	2009-01-27
Absorption		The process by which electromagnetic radiation (EMR) is assimilated and converted into other forms of energy, primarily heat. Absorption takes place only on the EMR that enters a medium, and not on EMR incident on the medium but reflected at its surface. A substance that absorbs EMR may also be a medium of refraction, diffraction, or scattering; however, these processes involve no energy retention or transformation and are distinct from absorption. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-16
Absorption Band		A range of wavelengths (or frequencies) of electromagnetic radiation that is assimilated by a substance. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-16
Acceptance		Procedure of official approval and recognition that a corresponding item (system, element, sub-system etc.) meets all specific requirements	Management	2009-02-23
Acceptance Data Package	ADP		Management	2009-01-27
Acceptance of Risk		decision to cope with consequences, should a risk scenario materialize: NOTE 1 - A risk can be accepted when its magnitude is less than a given threshold, defined in the risk management policy. NOTE 2 - In the context of risk management, acceptance can mean that even though a risk is not eliminated, its existence and magnitude are ac-knowledged and tolerated.	Management	2009-03-01
Acceptance Review	AR		Management	2009-02-16
Acceptance Test	AT		Technical - General	2008-08-19
Acquisition	ACQ		Technical - Operations	2008-08-19
Acquisition and Safe Mode	ASM		Technical - Bus	2009-02-16
Acquisition of Signal	AOS		Technical - Operations	2009-01-27
Acquisition Request	AR	An Acquisition Request (AR) is a request for an EnMAP data acquisition sent from Payload Ground Segment (PGS) to Mission Operations Segment (MOS). It is the input to Mission Planning for the planning process. An AR is identified by a unique denominator and includes all planning relevant information necessary to schedule the data take.	Technical - Operations	2010-05-24
Action Item	AI		Management	2009-01-27
Active Pixel Sensor	APS		Technical - Instrument	2009-02-16
Advanced Land Observing Satellite	ALOS		Organizations	2010-05-20
Advanced Stellar Compass	ASC		Technical - Bus	2009-02-16
Advanced Visible and Near-Infrared Radiometer	AVNIR		Technical - Instrument	2010-05-20
Adverse Tolerance	ADV		Technical - Bus	2009-02-23
Aerosol Optical Thickness	AOT		Technical - General	2010-05-20
Air Mass Zero	AM0		Technical - Bus	2009-02-23
Airborne PRISM Experiment	APEX		Organizations	2009-01-27
Airborne Reflective and Emissive Spectrometer	ARES		Organizations	2009-01-27
Airborne Visible-Infrared Imaging Spectrometer	AVIRIS		Organizations	2009-01-27
Albedo		(1) The ratio of the amount of electromagnetic energy reflected by a surface to the amount of energy incident upon it, often expressed as a percentage. (2) The reflectivity of a body as compared to that of a perfectly diffusing surface at the same distance from the Sun, and normal to the incident radiation. Albedo may refer to the entire solar spectrum or merely to the visible portion. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-16
Algorithm Theoretical Basis Document also known as	ATBD aka		Technical - Data Management Management	2009-01-27 2009-01-27
American Standard Code for Information I	ASCII		Technical - General	2009-02-16
Analog Channel	AN		Technical - General	2009-01-27
Analog-to-Digital Converter	ADC		Technical - General	2009-02-16

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Analysis (Verification Method)	A		Engineering	2009-01-27
Announcement of Opportunity	AO	The call for proposals to utilize a satellite mission. Utilization can mean data exploitation but also the opportunity to provide payloads. ( <a href="http://envisat.esa.int/glossary/">http://envisat.esa.int/glossary/</a> )	Organizations	2009-02-23
Antenna	ANT		Technical - Space-Ground Communications	2009-02-24
Antenna Aspect Angle	AAA		Technical - Bus	2010-06-08
Antenna Control Electronics Unit	ACE		Technical - Space-Ground Communications	2009-02-23
Antenna Control Unit	ACU		Technical - Space-Ground Communications	2015-11-30
Antenna Excitation Generator	AEG		Technical - Space-Ground Communications	2009-02-23
Antenna Pattern Generator	APG		Technical - Space-Ground Communications	2009-02-23
Any Other Business	AOB		Management	2009-02-16
Aperture		An opening that admits electromagnetic radiation to a film or detector. An example would be the lens diaphragm opening in a camera. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Instrument	2009-02-23
Apogee		The point in the orbit of a heavenly body, especially of a manmade satellite, at which it is farthest from the Earth. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-01-27
Applicable Document	AD		Management	2009-02-23
Applicable Reference	AR		Management	2010-05-26
Application Process Identifier	APID		Technical - Space-Ground Communications	2009-02-23
Application Programming Interface	API		Technical - General	2009-02-16
Application Support Director	ASD		Technical - Operations	2021-06-08
Application-Specific Integrated Circuit	ASIC		Technical - General	2009-01-27
Aquisition Request Ingestion	ARI		Technical - Operations	2009-01-27
Assembly		1) Logical model of a test configuration 2) Process of hardware mechanical coupling to obtain a combined configuration	Engineering	2009-02-23
Assembly Version	ASV	An Assembly version is an instance of an assembly. It is the collection of items version of each item of the assembly under consideration and configuration.	Engineering	2010-05-03
Assembly, Integration & Verification	AIV		Engineering	2009-02-23
Assembly, Integration and Test	AIT		Engineering	2009-01-27
Assumption	ASP		Engineering	2009-02-23
Asynchronous Packet Transfer	APT		Technical - Space-Ground Communications	2009-02-23
Atmospheric Correction		The correction made to remotely sensed radiance (external link) to reduce or normalize for the intervening atmosphere (external link) between the Earth's surface and the satellite. The product of an atmospheric correction is the conversion of at-satellite spectral radiance to the innate reflectance or bidirectional reflectance of the surface. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Data Management	2009-01-27
Atmospheric Dynamics Mission	ADM-Aeolus		Technical - Instrument	2009-01-27
Atmospheric Window		The range of wavelengths at which water vapor, carbon dioxide, or other atmospheric gases only slightly absorb radiation. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - Data Management	2009-01-27
Atomic Oxygen	ATOX		Technical - Data Management	2009-01-27
At-Sensor Radiance		Radiance at the entrance aperture of an optical instrument.	Technical - Instrument	2009-06-23
Attitude		The angular orientation of a spacecraft fixed coordinate system (called spacecraft coordinates) and an arbitrary user defined reference coordinate system (e.g. an Earth fixed frame). For the mathematical description different type of parameters can be used e.g. Euler angles (Roll/Pitch/Yaw), transformation matrixes or Quaternions.	Technical - Bus	2009-01-27
Attitude and Orbit Control	AOC		Technical - Bus	2009-01-27
Attitude and Orbit Control System	AOCS	An important and complex subsystem of the satellite, providing measurement of the attitude in nominal and anomalous situations, and a range of actuators to modify attitude and attitude rates. It also provides the thrusters needed for orbit control and maintenance. ( <a href="http://envisat.esa.int/glossary/">http://envisat.esa.int/glossary/</a> )	Technical - Bus	2009-02-23
Attitude Control System	ACS		Technical - Bus	2009-01-27
Attitude Determination System	ADS		Technical - Bus	2009-02-16
Authentication Unit	AU		Technical - Bus	2009-02-16

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Authorization to Proceed	ATP		Management	2009-02-16
Automatic File Distributor	AFD		Technical - Operations	2009-03-05
Autonome Telemetrie		TM which is send to ground continuously without any further request of the ground station. The Autonomous TM has lower priority than the TM, which is sent in response to a real-time TC and which in EnMAP is near real-time TM according to the herein given glossary of real-time. The sending of the Autonomous TM can be enabled or disabled. Due to its lower priority the transfer of the Autonomous TM can be affected, when it is enabled in parallel to the real-time commanding of the satellite. A near real-time transfer of the Autonomous TM can be achieved by a co-ordinated scheduling of the real-time commanding of the satellite and the enabling and disabling of the Autonomous TM.	Technical - Space-Ground Communications	2009-02-23
Auxiliary Data	AUX	Data required to perform processing of sensor data which is not obtained from the sensor itself. Include: (a) data provided by the spacecraft (e.g. orbit position and velocity, attitude, instrument house-keeping data, on-board time), (b) data not available from on-board sources. EnMAP: (a) Orbit files, attitude files, calibration data, instrument house-keeping data, (b) atmospheric parameters, reference images.	Technical - Data Management	2009-02-16
Auxiliary Data Formatter	ADF		Technical - Data Management	2009-01-27
Azimuth		The arc of the horizon measured clockwise from the north point to the point referenced. Expressed in degrees. Azimuth indicates direction, and not location. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-16
Background Mission		Background Mission is defined as requests asking for large spatial and/or temporal coverage's (areal coverage) with a special scientific focus in order to ensure that EnMAP HSI data will be exploited at full degree of capacity utilization. Data takes for Background Mission will be acquired if no other requests are planned per day/orbit and the data storage is not fully used to capacity.	Technical - Operations	2010-05-22
Band Width	BW		Technical - Space-Ground Communications	2015-11-30
Baseline		Configuration of a product, formally established at a specific point in time, which serves as reference for further activities	Engineering	2009-02-23
Basic Design Definition	BDD		Engineering	2009-02-23
Battery Charge Regulator	BCR		Technical - Bus	2009-01-27
Battery Management Unit	BMU		Technical - Bus	2009-02-16
Beam Pointer Table	BPT		Technical - Space-Ground Communications	2009-01-27
Begin of File	BOF		Technical - General	2009-02-16
Begin of Life	BOL		Technical - General	2009-02-16
Best Lock Frequency	BLF		Technical - Space-Ground Communications	2015-11-30
Bidirectional Reflectance		A unitless measure of the ratio of incoming to outgoing radiation created from converting a radiometrically calibrated image to an innate characteristic of the target being observed. After removing the atmospheric component of calibrated at-satellite spectral radiance, bidirectional reflectance distribution functions (BRDFs), bidirectional reflectance, and bidirectional reflectance factors (BRF) attempt to take into account target-related differences in reflectance as a function of four sources of variability of non-Lambertian surfaces: solar zenith and azimuthal irradiance angles and sensor viewing zenith and azimuthal angles. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Calibration/Validation	2009-02-16
Bi-directional Reflectance Distribution Function	BRDF		Technical - Calibration/Validation	2009-02-16
Bi-directional Scatter Distribution Function	BSDF		Technical - Calibration/Validation	2009-02-16
Bit Error Rate	BER		Technical - Space-Ground Communications	2009-01-27
Block Adaptive Quantizer	BAQ		Technical - General	2009-02-16
Bodensegment	BS		Management	2009-02-16
BOReal Ecosystem Atmosphere Study	BOREAS		Organizations	2009-02-16
Breadboard	BB		Engineering	2009-02-16
Bundesamt für Sicherheit in der Informationstechnik	BSI		Organizations	2009-01-27
Bus		The basic frame of a satellite system that includes the propulsion and stabilization systems but not the instruments or data systems. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - Bus	2009-01-27

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Bus Controller	BC		Technical - Bus	2009-02-16
Bus Harness Identifier	HAR		Technical - Bus	2009-01-27
Bus Power Subsystem Identifier	PWR		Technical - Bus	2009-01-27
Bus Structure Subsystem Identifier	STR		Technical - Bus	2010-02-02
Calibration	Cal	The process of determining the functions and coefficients necessary to convert instrument output values (voltages or counts) to radiometric units. Both radiometric and spectral responses are implicit. It consists of pre-launch and on-orbit components, and direct and vicarious methods. In addition to establishing the instrument counts to radiance relationship, calibration deals its temporal and orbital variations. A key component is the maintenance of the calibration scale throughout the mission life, be it referenced to primary standards or the sun. Another component is the determination of geometric parameters characterising the viewing geometry of the instrument and its reference to the satellite coordinate system.	Technical - Calibration/Validation	2009-01-27
Calibration Redundancy Network	CRN		Technical - Calibration/Validation	2009-01-27
Calibration Request	CR	Calibration Requests are issued by registered internal users to the ground segment through the EnMAP Data Access Portal asking for measurements aiming to assess radiometric, spectrometric and geometric characteristics of HSI in orbit. The CR provides all information required for scheduling calibration measurements such as type of calibration, frequency of calibration measurements, time interval, priority. The measurement output of those requests are used to redefine HSI inflight calibration sequences.	Technical - Operations	2010-05-22
Calibration Source Optics Assembly	CSOA		Technical - Instrument	2012-12-11
Canadian Space Agency	CSA		Organizations	2010-03-04
Canopy Reflectance	CR		Applications	2009-02-16
Capacitive Trans-Impedance Amplifier	CTIA		Technical - General	2009-02-16
Carbon Fiber Reinforced Plastic	CFRP		Technical - General	2008-08-19
Catalogue Interoperability Protocol	CIP	CIP supports the communication between user client software and the data provider server software and also between the information providers themselves. It is based on the international search and retrieval protocol Z39.50.	Technical - Data Management	2010-03-04
Catalogue Order	CO	A catalogue order contains order items for existing or producible products. The ordered products or the predecessor products are already available in the archive. They are processed and delivered according to the specification in the order.	Technical - Data Management	2010-06-08
Caution & Warning Analysis	CWA		Technical - Operations	2009-02-16
CENLEC Electronic Components Committee	CECC		Organizations	2009-02-16
Center for Disaster Management and Risk Reduction Technology	CEDIM		Organizations	2009-02-16
CentOS	CentOS	Unix like LINUX operation system (Community ENTERprise Operating System) see: <a href="http://www.centos.org">http://www.centos.org</a>	Technical - General	2010-05-03
Central Check-out System	CCS		Technical - Bus	2009-02-16
Central Parts Procurement Agency	CPA		Organizations	2009-02-16
Central Processing Unit	CPU		Technical - General	2009-02-16
Centralized or Coordinated Parts Procurement	CPPA		Management	2008-08-19
Centre National d'Etudes Spatiales	CNES		Organizations	2009-02-16
Centre of Gravity	CoG		Technical - General	2009-02-16
Centre of Mass	CoM		Technical - General	2009-02-16
Certificate of Compliance	COC		Management	2009-02-16
channel		A channel is the abundance of data containing one spectral sensitive wavelength range of the sensor acquired during a specific time period and represents a two dimensional array of data with a spatial and time dimension. According to the EnMAP payload, which consists of two sensors, the VNIR and SWIR channels are differentiated. For each sensor a virtual channel exists, which contains additionally information.	Technical - General	2010-08-19
Channel Coding Unit	CCU		Technical - Space-Ground Communications	2009-02-16
Characterization		Process of determining parameters of a sensor or sensor system necessary to operate it in a given environment and interpret its measurements	Technical - Calibration/Validation	2009-02-23

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Characterization and Calibration Provider	C&C Provid	A laboratory which was selected to perform the on-ground characterization and calibration.	Technical - Instrument	2010-03-04
Characterization, Calibration, Validation, Verification	CCVV		Technical - Calibration/Validation	2009-02-16
Charge Coupled Device	CCD	An integrating optical detector in the near infrared, visible and ultraviolet region. ( <a href="http://envisat.esa.int/glossary/">http://envisat.esa.int/glossary/</a> )	Technical - Instrument	2009-02-16
Chirp Generator	CHG		Technical - Space-Ground Communications	2009-01-27
Circuit Breaker	CBR		Technical - Bus	2009-01-27
Circular Error	CE		Technical - Data Management	2009-02-23
Clock	CLK		Technical - Space-Ground Communications	2015-11-30
Cluster Angewandte Fernerkundung	CAF		Organizations	2010-05-26
CMOS Image Sensor	CIS	Image sensor based on (silicon) CMOS technology.	Technical - Instrument	2010-02-02
Coarse Earth and Sun Sensor	CESS		Technical - Bus	2009-02-16
Coarse Time	CTIME		Technical - Bus	2009-02-16
Collected Volatile Condensable Material	CVCM		Technical - General	2008-08-19
Command	CMD		Technical - General	2009-02-23
Command Acknowledge Packet	CAP		Technical - Space-Ground Communications	2009-02-16
Command Link Transmission Unit	CLTU		Technical - Space-Ground Communications	2009-01-27
Command Operation Procedure #1	COP-1		Technical - Operations	2009-01-27
Command Pulse Decoder Unit	CPDU		Technical - Space-Ground Communications	2009-02-16
Command, Control and Data Handling	CCDH		Technical - Data Management	2009-01-27
Commercial off-the-shelf	COTS		Engineering	2009-02-16
Commercial, Aviation & Military	CAM		Management	2008-08-19
Committee on Earth Observation Satellites	CEOS		Organizations	2009-02-16
Compact Airborne Spectrographic Imager	CASI		Technical - Instrument	2008-08-19
Compact High Resolution Imaging Spectrometer	CHRIS-PROB		Technical - Instrument	2009-05-15
Complementary Metal-Oxide Semiconductor	CMOS		Technical - Instrument	2009-02-16
Component	C	A Component is a constituent of a subsystem, enabling its functionality. Two component types are distinguished: - "Facility" (Technical Part) and - "Operations Organization" (Operational part).	Engineering	2010-05-05
Compression Memory Module	CMM		Technical - Data Management	2009-01-27
Computer Aided Software Engineering	CASE		Engineering	2009-02-16
Configuration		Functional and physical characteristics of a product as defined in technical documents and achieved in the product	Engineering	2009-01-27
Configuration & Data Management	CDM		Management	2009-02-16
Configuration audit		Auditing of configuration items to verify conformance to specification, drawings, interface control documents, and other contract requirements.	Management	2009-02-16
Configuration control		Control of changes to configuration items and their related documentation.	Engineering	2009-02-16
Configuration Control Board	CCB		Management	2009-02-16
Configuration identification		Identification and documentation of the functional and physical characteristics of configuration items.	Engineering	2008-08-19
Configuration Item	CI	Aggregation of hardware, software, processed materials, services or any of its discrete portions that is designated for configuration management and treated as a single entity in the configuration management process.	Engineering	2009-02-16
Configuration Item Data List	CIDL		Engineering	2009-02-16
Configuration Management	CM	Technical and organizational activities comprising configuration identification, configuration control, configuration status accounting and configuration verification and configuration audit	Management	2008-07-25
Configuration Management System	CMS		Management	2010-03-04
Configuration Review Board	CRB		Management	2009-02-24
Configuration status accounting	CSA	Recording and reporting of information needed to manage configuration items effectively, including the status of proposed changes and implementation status of approved changes.	Management	2009-02-16
Configuration Status List	CSL		Engineering	2010-05-26
Configuration Verification Review	CVR		Management	2009-01-27
Constant-rate Wavelet-based Image Compressor	CWIC		Technical - Data Management	2009-02-16

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Consultative Committee for Space Data Systems	CCSDS		Organizations	2008-08-19
Contract Change Notice	CCN	Request to proceed with ECR, which is of contractual relevance affecting customer requirements, cost, schedule, safety of people or equipment, reliability, maintainability or external interfaces.	Management	2009-02-16
Control Centre Infrastructure	CCI		Technical - Operations	2010-05-26
Control Link Control Word	CLCW		Technical - Space-Ground Communications	2009-02-23
Control Word	CW		Technical - Space-Ground Communications	2009-02-16
Controlling and Acquisition	CTA		Organizations	2015-05-05
Cooler Control Electronics	CCE		Technical - Instrument	2009-02-16
Coordinated Information on the European Environment	CORINE		Organizations	2009-02-16
Correlated Double Sampling	CDS		Technical - Instrument	2008-08-19
Counter-Clockwise	CCW		Technical - General	2009-01-27
Coverage		Total area of the Earth surface that can potentially be mapped within a given time frame.	Applications	2009-02-16
Critical Design Review	CDR		Management	2009-02-16
Critical Item List	CIL		Engineering	2009-02-16
Critical Operational Review	COR		Management	2009-01-27
Criticality Number	CN		Engineering	2009-02-16
Crop Environment Resource Synthesis	CERES		Applications	2009-02-16
CryoSat radar altimetry mission	CryoSat		Organizations	2009-01-27
Customer Requirements Document	CRD		Management	2009-02-16
Cyclic Redundancy Check	CRC		Technical - Data Management	2010-05-22
Cyclogram		Cyclogram is a MCS (Macro Command Sequence) for the HSI defining the internal process/sequence of an image acquisition or calibration. Besides that, there exist other MCS in the HSI.	Technical - Instrument	2010-04-08
dark current	DC		Technical - Instrument	2010-05-21
Dark Signal Non Uniformity	DSNU		Technical - Calibration/Validation	2009-02-23
Data & Information Management System	DIMS		Technical - Data Management	2008-07-28
Data Access Server	DAS		Technical - Data Management	2010-02-02
Data Acquisition		Time span when data from selected or all spectral bands are recorded.	Technical - Data Management	2009-02-16
Data Compression		Any technique that condenses the available data so as to make data storage or transmission more efficient. Data compression can be lossy in which some amount of information (data) is lost or lossless in which no information (data) is lost. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Data Management	2009-02-16
Data Decompression		A reversal of the process of data compression. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Data Management	2010-06-08
Data Downlink Transmitter	DDTx		Technical - Space-Ground Communications	2009-02-16
Data Flow Test	DFT		Technical - Space-Ground Communications	2015-11-30
Data Frame		A data frame consists of a readout of all pixels of a detector	Technical - Data Management	2009-01-27
Data Handling	DH		Technical - Data Management	2009-01-27
Data Handling Electronics	DHE		Technical - Data Management	2009-02-16
Data Ingestion		The collecting and organizing of data	Technical - Data Management	2009-01-27
Data Link Subsystem	DLS		Technical - Space-Ground Communications	2009-01-27
Data Memory	DM		Technical - Data Management	2009-02-16
Data Processing Unit	DPU		Technical - Data Management	2009-02-23
Data Rate	DR		Technical - Space-Ground Communications	2015-11-30
Data Science Handling Assembly	DSHA		Technical - Data Management	2013-03-21
Data Storage Unit	DSU		Technical - Data Management	2009-02-23
Data Take		Acquisition of image data ; for a defined length between minimum 1024 image line samples and maximum 1000 km ground track ; under constant viewing angle (nadir-looking or up to +/- 30° off-nadir pointing [= spacecraft roll]) ; related to data takes (but not direct parts of them) are the set-up of pointing/stabilization and pre-/post-calibrations	Technical - Instrument	2009-02-23

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Data Take Portion		Image swath times image length. Image length is given by the distance on ground between the positions of the first and the last sample belonging to the same column when the image centre is viewed in the nadir direction.	Technical - Data Management	2009-02-16
Data Take Verification	DTV		Technical - Instrument	2009-02-16
Data Word	DW		Technical - Data Management	2009-02-16
Database	DB		Technical - Operations	2010-02-24
datatake assembly	DTA	Procedure performed by the PGS processing system HSI as a prerequisite of Level 0 processing: Check whether all channel files of a datatake are completely available.	Technical - Data Management	2010-06-08
Datation		Time and date allocation of transmitted data. See also (french) "datation".	Technical - Data Management	2009-01-27
DC-DC Converter Unit	DCU		Technical - General	2009-02-16
Declared Component List	DCL		Engineering	2009-02-16
Declared Material List	DML		Engineering	2009-02-23
Declared Mechanical Parts List	DMPL		Engineering	2009-02-23
Declared Process List	DPL		Engineering	2009-02-23
Deep Space Network	DSN		Technical - Space-Ground Communications	2009-02-23
Degradation of Mission	DoM	Permanent Degradation of Mission	Management	2010-02-02
Dekommutation		Im Bord-Speicher des Satelliten liegen die verschiedensten Files zur Übertragung zur Bodenstation bereit. Diese werden in die CCSDS-Struktur verpackt und zur Bodenstation übertragen. Nach mehreren Arbeitsschritten an der Bodenstation werden die Daten wieder verschiedenen Files zugeordnet, die gleich oder ähnlich den entsprechenden Files im Bordspeicher sind. Diesen Arbeitsschritt des Auseinander-Sortierens wird als Dekommutation bezeichnet.	Technical - Space-Ground Communications	2007-06-21
Delivery Review Board	DRB		Management	2009-02-23
Demilitarized Zone	DMZ		Technical - General	2009-05-15
De-Orbiting Phase		De-Orbiting Phase describes the satellite transfer into an orbit of maximum 25 years lifetime after nominal mission lifetime.	Technical - Operations	2009-02-23
Department of Defense	DOD		Organizations	2009-02-23
Dependability	D		Engineering	2010-06-08
Descending Node		The point in a satellite's orbit at which it crosses the equatorial plane from north to south. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - Operations	2009-01-27
Design & Development	D&D		Engineering	2009-02-23
Design and Interface Document	DID		Engineering	2009-02-16
Design Definition File	DDF		Engineering	2009-02-23
Design Document	DD		Engineering	2009-02-16
Design Justification File	DJF		Engineering	2009-02-23
Design, Development and Verification	DD&V		Engineering	2009-02-23
Destructive Physical Analysis	DPA		Engineering	2009-02-23
Detailed Design Document	DDD		Engineering	2009-02-16
Detailed Supplementary Objective	DSO		Management	2009-02-23
Deutscher Wetterdienst	DWD		Technical - General	2010-05-24
Deutsches Fernerkundungsdatenzentrum	DFD	Institut des Deutschen Zentrums für Luft- und Raumfahrt in der Helmholtz-Gemeinschaft	Organizations	2009-02-23
Deutsches GeoForschungsZentrum - Helmholtz-Zentrum Potsdam	GFZ		Organizations	2009-02-23
Deutsches Zentrum für Luft- und Raumfahrt e.V.	DLR		Organizations	2009-02-23
Development Model	DM		Management	2009-02-23
Development Test Objective	DTO		Engineering	2009-02-23
Deviation		Permission to depart from the originally specified requirements for a product prior to realization.	Management	2009-02-16
Difference Pulse Code Modulation	DPCM		Technical - Space-Ground Communications	2009-02-23
Differential Non-Linearity	DNL		Technical - Calibration/Validation	2009-05-15

Term	Abbreviation	Definition	Category	Modified at
Diffuser protective hatch	DPH	Diffuser protective hatch is a moveable part of FAD that protects the diffuser when sun diffuser hatch is in stored position. It consists of protective cover, vanes, rotation axis etc. DPH has two main positions: closed and open. In open position the diffuser is illuminated by sun for solar calibration.	Technical - Instrument	2010-04-08
Digital Airborne Imaging Spectrometer	DAIS		Applications	2009-02-16
Digital Bilevel	DB		Technical - General	2009-01-27
Digital Elevation Model	DEM		Technical - General	2009-02-23
Digital Mapping Camera	DMC		Technical - Instrument	2010-05-20
Digital Surface Model	DSM		Technical - General	2009-02-23
Digital Terrain Model	DTM		Technical - General	2009-02-23
Direct Access Customer	DAC		Organizations	2009-02-23
Direct Access Customer w own Receiving Station	DAC w RS		Technical - Operations	2009-02-23
Direct Access Customer w/o own Receiving Station	DAC w/o RS		Organizations	2009-02-23
Direct Access Partner	DAP		Organizations	2009-02-23
Direct Archive System	DAS		Technical - Data Management	2009-02-23
Direct Georeferencing	DG		Technical - Data Management	2009-02-23
Direct Linear Transformation	DLT		Technical - General	2010-05-06
Directory List	DIRLIST		Technical - Data Management	2009-02-16
Discrepancy Report	DR		Management	2010-05-06
Discrete Cosine Transform	DCT		Technical - General	2009-02-16
Discrete Wavelet Transform	DWT		Technical - General	2009-02-16
Dissolved Organic Carbon	DOC		Technical - General	2009-02-23
Distortion		A change in scale from one part of an image to another. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Instrument	2009-02-16
Document Change Request	DCR	Description of changes to a document, based on identified needs for editorial rework, elimination of mistakes, incorporation of changes. DCRs may be just entered ("editorial non-conformance") or may be generated from an ECR.	Management	2008-08-19
Document Requirement Definition	DRD		Management	2009-02-23
Document Requirements List	DRL		Management	2009-02-23
Document Type Definition	DTD		Technical - Data Management	2009-02-23
Dornier Satellitensysteme	DSS		Organizations	2009-05-15
Down-Link	D/L		Technical - Space-Ground Communications	2009-02-23
Downlink Info	DLI		Technical - Space-Ground Communications	2009-02-23
Downlink Info File	DIF		Technical - Space-Ground Communications	2009-02-23
DSHA Controller Module	DCM		Technical - Bus	2013-03-21
Dynamic Random Access Memory	DRAM		Technical - General	2009-02-23
Dynamic Range		Range of At-Sensor Radiances to be measured within the linear response of the instrument from a minimum (Lmin) to a maximum (Lmax) at-sensor radiance level.	Technical - Instrument	2009-02-23
Earth Centred Earth Fixed	ECEF		Technical - General	2010-05-20
Earth Centred Inertial	ECI		Technical - General	2010-05-20
Earth Centred Rotated	ECR		Technical - General	2010-05-20
Earth Explorer Opportunity Missions	EEOM		Organizations	2009-02-23
Earth Mean Equator and Equinox of Epoch J2000	EME2000	The fundamental inertial frame definition uses the Earth as the reference body, its mean equator as the reference plane, the vernal equinox of its mean orbit as the reference direction, and J2000 as the reference epoch. Hence, this frame is called the Earth Mean Equator and Equinox of Epoch J2000 or simply EME2000.	Technical - General	2010-05-20
Earth Observation	EO		Management	2009-02-23
Earth Observation on the Web	EOWEB	The user interface Earth Observation on the WEB provides access to the earth observation data available at the DFD. You can search for data, view browse images, order data and retrieve data on-line.	Applications	2010-05-28



Term	Abbreviation	Definition	Category	Modified at
Earth Observation Swath and Orbit Visualization	ESOV	This is a Earth Observation Swath and Orbit Visualisation tool providing the user with means to visualise instrument swaths of all ESA Earth Observation Satellites and assist in understanding where and when satellite measurements are made and ground con-tact is possible.	Technical - Operations	2010-05-22
Earth Resources Observation Systems	EROS		Technical - General	2010-05-20
Earth System Science Partnership	ESSP		Organizations	2009-02-23
Earth-Centered, Earth-Fixed Coordinates	ECEF		Technical - General	2009-02-23
EDAC EEPROM/RAM Test	ERT		Engineering	2009-02-23
Eden		A Haskell programming-language extension for parallel functional programming	Technical - Data Management	2017-08-28
Effective Number of Bits	ENOB		Technical - General	2009-02-23
Electrical Ground Support Equipment	EGSE		Engineering	2009-02-23
Electrical, Electronic & Electromechanical	EEE		Technical - General	2008-08-19
Electrically Erasable Programmable Read Only Memory	EEPROM		Technical - General	2009-02-23
Electro-Magnetic Compatibility	EMC		Engineering	2009-02-23
Electro-Magnetic Interference	EMI		Technical - General	2009-02-23
Electromagnetic Radiation		Energy emitted as a result of changes in atomic and molecular energy states and propagated through space at the speed of light, i.e., energy transfer in the form of electromagnetic waves or particles that propagate through space at the speed of light. The term radiation is used commonly for this type of energy, although it actually has a broader meaning. Also called electromagnetic energy. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-16
Electromagnetic Spectrum		(1) A system that classifies, according to wavelength, all energy that moves, harmonically, at the constant velocity of light. (2) A continuum that is conventionally broken into arbitrary segments (as ultraviolet, visible, radio). The entire range of electromagnetic radiation. The spectrum usually is divided into seven sections. From the longest wavelengths to the shortest: radio, microwave, infrared, visible, ultraviolet, x-ray, and gamma ray radiation. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-23
Electrostatic Discharge	ESD		Technical - General	2009-02-23
Elevation	EL		Technical - Space-Ground Communications	2015-11-30
Emitter-Coupled Logic	ECL		Technical - General	2009-02-23
End Item Data Package	EIDP		Technical - Space-Ground Communications	2009-02-23
End of Charge Voltage	EOCV		Technical - General	2009-02-23
End Of File	EOF		Technical - Data Management	2009-02-23
End Of Life	EOL		Engineering	2009-02-23
End of Mission	EOM		Management	2009-01-27
End-of-Life Review	ELR		Management	2009-02-23
Engineering Change Proposal	ECP		Engineering	2009-02-23
Engineering Change Request	ECR	Description of change intent, based on problem identification. An ECR is always generated from an NCR, RID or SCR. It has to be issued by the CCB.	Engineering	2009-03-01
Engineering Model	EM		Engineering	2009-02-23
Engineering Qualification Model	EQM		Engineering	2009-01-27
Enhanced Thematic Mapper	ETM		Technical - Instrument	2010-05-20
EnMAP Document Reference	EnDR		Management	2009-02-23
EnMAP Ground Segment	EN-GS		Organizations	2010-05-26
EnMAP Science Advisory Group	EnSAG		Organizations	2010-05-24
EnMAP User Requirement Document	EURD		Management	2009-02-23
Environmental Mapping & Analysis Program	EnMAP		Organizations	2009-02-23
Environmental Satellite	ENVISAT		Organizations	2009-02-23
Ephemeris		Any tabular statement of the assigned places of a celestial body (including a manmade satellite) for regular intervals. Ephemeris data help to characterize the conditions under which remote sensing data are collected and may be used to correct the sensor data prior to analysis. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Bus	2009-02-23
EPOCH		Software system for mission control (by Integral Systems)	Technical - Operations	2010-02-02
Equal Level document	EL		Management	2009-02-23

Term	Abbreviation	Definition	Category	Modified at
Equivalent Isotropic Radiated Power	EIRP		Technical - General	2009-02-23
EROS Data Centre	EDC		Technical - General	2010-05-20
Error Code	ECODE		Technical - Data Management	2009-02-23
Error Detection and Correction	EDAC		Technical - Data Management	2009-02-23
Error Group	EGRP		Technical - Data Management	2009-02-23
EU Water Framework Directive	EU WFD		Organizations	2009-02-23
European Commission	EC		Organizations	2009-02-23
European Cooperation for Space Standardization	ECSS		Engineering	2009-02-23
European Environmental Agency	EEA		Organizations	2009-02-23
European Norm	EN		Engineering	2009-02-23
European Preferred Parts List	EPPL		Engineering	2009-02-23
European Space Agency	ESA		Organizations	2009-02-23
European Space Components Coordination	ESCC		Engineering	2009-02-23
European Space Components Information Exchange System	ESCIES		Engineering	2009-02-23
European Terrestrial Reference System 1989	ETRS89		Technical - General	2010-05-20
European Union	EU		Organizations	2009-02-23
European University Information Systems	EUNIS		Organizations	2009-02-23
exabyte	EB	derived from the SI prefix exa- unit of information or computer storage equal to one quintillion bytes : 1 EB = 1 billion gigabytes = 1 million terabytes	Technical - General	2010-06-08
Expendable Launch Vehicle	ELV		Technical - General	2009-02-23
Extended Decommutation	XD		Technical - Space-Ground Communications	2009-02-16
Extensible Markup Language	XML		Technical - Data Management	2009-02-23
External Segments and Entities	ESE		Technical - General	2010-04-08
Extra Vehicular Activity	EVA		Technical - Bus	2009-02-23
Facility Requirements Document	FRD		Technical - Operations	2009-01-27
Failure Detection, Isolation and Recovery Techniques	FDIR		Engineering	2008-08-19
Failure Modes & Effects Analysis	FMEA		Engineering	2009-02-23
Failure Modes, Effects & Criticality Analysis	FMECA		Engineering	2009-02-23
Fault Tree Analysis	FTA		Engineering	2009-02-23
Favorable Tolerance	FAV		Engineering	2009-02-23
Fedora	Fedora	Unix like LINUX operation system see: <a href="http://fedoraproject.org">http://fedoraproject.org</a>	Technical - General	2010-05-26
Field-of-View	FOV	The solid angle through which an instrument is sensitive to radiation. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Instrument	2009-02-23
Field-Programmable Gate Array	FPGA		Technical - General	2009-02-23
Figure of Merit	FOM		Engineering	2009-02-23
File Length	FLEN		Technical - Data Management	2009-02-23
File Transfer Protocol	FTP		Technical - General	2010-04-22
Fine Attitude Mode	FAM		Technical - Bus	2009-02-16
Fine Time	FTIME		Technical - General	2009-02-23
First In First Out	FIFO		Technical - Data Management	2009-02-23
Flight Acceptance Review	FAR		Management	2009-02-23
Flight Control Team	FCT		Technical - Operations	2010-02-23
Flight Director	FLD		Technical - Operations	2021-06-08
Flight Dynamics	FD		Technical - Operations	2009-02-23
Flight Dynamics Engineer	FDE		Technical - Operations	2009-02-23
Flight Dynamics System	FDS		Engineering	2009-02-16
Flight Model	FM		Engineering	2009-02-23
Flight Operations Engineer	FOE		Technical - Operations	2009-02-23
Flight Operations Plan	FOP		Technical - Operations	2009-01-27
Flight Operations Procedures	FOP	Procedures covering all satellite related issues which are necessary for safe satellite operations.	Technical - Operations	2009-02-23
Flight Operations Service	FOS		Technical - Operations	2009-02-23

Term	Abbreviation	Definition	Category	Modified at
Flight Operations System	FOS		Engineering	2009-02-23
Flight Qualification Review	FQR		Management	2009-02-23
Flight Readiness Review	FRR		Management	2009-02-23
Flight Safety Data Package	FSDP		Engineering	2009-02-23
Flight Spare	FS		Engineering	2009-02-23
Focal Plane Assembly	FPA		Technical - Instrument	2009-02-23
Food and Agriculture Organization of the United Nations	FAO		Organizations	2009-02-23
Footprint Database	FPDB		Technical - Data Management	2009-01-27
Forschungsgesellschaft für Angewandte Naturwissenschaften eV	FGAN		Organizations	2009-05-15
frame		A frame is the abundance of data provided by the sensor at an instance of time (one sensor exposure) and represents a two dimensional array of data with a spatial and a spectral dimension. Timely consecutive frames - also called readouts - form an image. According to the EnMAP payload, which consists of two sensors, there exist a VNIR and a SWIR frame.	Technical - General	2010-05-31
Frame Analysis Report	FAR		Technical - General	2009-02-23
Framed Raw Expanded Data	FRED		Technical - Space-Ground Communications	2009-02-23
Frequently Asked Questions	FAQ		Management	2009-01-27
Front aperture diffuser	FAD	FAD is a subassembly that comprises SDH, DPH, mounting structure, mechanisms, position sensors, actuators etc. FAD provides means for solar calibration and protects telescope entrance during launch.	Technical - Instrument	2010-04-08
Front aperture diffuser assembly	FADA	the same as FAD	Technical - Instrument	2010-04-08
Front End Processor	FEP		Technical - Space-Ground Communications	2017-04-24
Front End Processor - Netzwerk-Rechner	FEP-NR		Technical - Space-Ground Communications	2020-06-24
Front-End Electronics	FEE		Technical - Instrument	2009-02-23
Frozen Orbit		Orbit with fixed perigee location close to the north pole	Technical - General	2009-01-27
Full Aperture Diffuser	FAD	The full aperture diffuser mechanism of the EnMAP instrument implements the basic functions Sun calibration and observation (normally earth) of the instrument. In addition it separates the two lightpaths of the instrument used for sun calibration and observation by two actuated flaps from the space environment. For the mission critical function observation a fail-safe design is provided.	Technical - Instrument	2009-08-19
Full Well Capacity		The full well capacity of the CCD is defined as the amount of signal electrons that can be properly collected and transferred by each pixel of the CCD.	Technical - Instrument	2009-02-23
Full width half maximum	FWHM		Technical - Instrument	2009-01-27
Function		Intended effect of a system, subsystem, component or item.	Engineering	2009-01-27
Function Tree		The function tree is the structure resulting from the breakdown of the system requirements into functions. Each function can be decomposed into sub-functions, so making a hierarchical trees tructure which is independent of implementation details. The function tree leads to the product tree by translating functions into specifiable hardware and software products.	Engineering	2009-02-23
Functional Analysis		The technique of identifying and describing all the functions of a system.	Engineering	2009-02-23
Functional Block Diagram	FBD		Engineering	2009-02-23
Functional Configuration Verification Review	FCVR		Management	2009-02-16
Functional Performance Test	FPT		Engineering	2009-02-23
FUNctional Requirement	FUN		Management	2009-02-23
Gain-to-Noise Temperature	G/T		Technical - Space-Ground Communications	2015-11-30
Gain-to-noise-temperature	G/T		Technical - General	2015-05-05
Gallium-Arsenide	GaAs		Technical - General	2009-02-23
GDS Netzwerk-Rechner	NR		Technical - Space-Ground Communications	2020-10-21
GENeral Requirement	GEN		Management	2009-02-23
Geodetic Coordinates		Quantities which define the position of a point on the spheroid of reference (for example, the Earth) with respect to the planes of the geodetic equator and of a reference meridian. Commonly expressed in terms of latitude and longitude. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-23

Term	Abbreviation	Definition	Category	Modified at
Geographic Information System	GIS		Technical - Data Management	2008-08-19
Geography Markup Language	GML		Technical - General	2016-04-27
Geometric Co-Registration		Equivalent distance between the positions of all pairs of spatial samples acquired in any two Spectral Bands within and between spectrometers and related to the same target on Earth. This will usually be designated as band-to-band registration, or inter-channel co-registration, or even simply co-registration and is expressed as a linear displacement related to GSD.	Technical - Instrument	2009-02-23
Geometrical Mathematical Model	GMM		Technical - Data Management	2009-02-23
Geophysical Environmental Research	GER		Organizations	2009-02-23
Geoscience	GEOSC		Engineering	2010-05-20
Geospatial Data Access Service	GDAS	The DIMS component GDAS is a general purpose system to manage, process, query and visualize geospatial data. As an implementation of an OGC (Open Geospatial Consortium) web service it serves raster (coverages) and vector data (features) through standard OGC interfaces.	Technical - Data Management	2010-05-26
Geostationary Earth Orbit	GEO		Technical - General	2008-08-19
German Space Agency	Agency		Organizations	2008-08-19
German Space Operations Center	GSOC		Organizations	2009-02-23
Gesellschaft für Angewandte Fernerkundung	GAFA		Organizations	2009-02-23
gigabyte	GB	Standard SI: 1 Milliarde Bytes	Technical - General	2010-05-21
Global 3 Observing Systems	G3OS		Organizations	2009-02-23
Global Carbon Project	GCP		Organizations	2009-02-23
Global Climate Observing System	GCOS		Organizations	2009-02-23
Global Earth Observation System of Systems	GEOSS		Organizations	2009-02-23
Global File System	GFS		Technical - Data Management	2010-05-21
Global Land Survey 2000	GLS2000		Applications	2010-05-20
Global Land Survey 2005	GLS2005		Applications	2010-05-20
Global Monitoring of Environment and Security	GMES		Organizations	2009-02-23
Global Navigation Satellite Systems	GNSS	Global Navigation Satellite Systems (GNSS) is the standard generic term for satellite navigation system that provide autonomous geo-spatial positioning with global coverage. Currently, NAVSTAR (US-GPS) & GLONASS (Russia). In development, Galileo (Europe), COMPASS/BeiDou (China).	Organizations	2010-05-20
Global Navigation System	GNS		Technical - General	2010-05-06
Global Observation for Forest and Land Cover Dynamics	GOFC/GOLD		Organizations	2009-02-23
Global Observing System/Global Atmosphere Watch	GOS/GAW		Organizations	2009-02-23
Global Ocean Observing System	GOOS		Organizations	2008-08-19
Global Positioning System	GPS		Technical - General	2008-08-19
Global Terrestrial Observing System	GTOS		Organizations	2009-02-23
GMES Service Element Forest Monitoring	GSE FM		Organizations	2010-06-08
GNU zip	GZIP		Technical - General	2016-03-27
GNU's not UNIX	GNU		Organizations	2016-04-27
Good Health Check	GHC		Technical - Operations	2009-01-27
Government-Furnished Equipment	GFE		Management	2009-02-23
Graphical User Interface	GUI		Technical - General	2009-03-05
Ground Control Point	GCP	A geographic feature of known location that is recognizable on images and can be used to determine geometric corrections to those images.	Technical - Data Management	2009-02-23
Ground Data System	GDS		Engineering	2009-02-23

Term	Abbreviation	Definition	Category	Modified at
Ground Observations		Observations made on the ground at a site that is being imaged from space for the purpose of verifying either the absolute radiometric and/or geometric calibration of the imagery or the classified product from the image. These data which are acquired from field checks, high-resolution remote sensing data, or other sources of 'known' data are used as the basis for making decisions on training areas and evaluating classification results. Instrument ground truthing made during field trips is often called vicarious calibration when experimental measurements are made of such factors as solar irradiance, atmospheric transmittance, and reflectance of either natural or calibrated homogeneous or gridded targets. Classification ground truthing can be done (1) by visiting the sites to identify what is on the ground, (2) by referring to classification of the area from other sources such as thematic maps, or (3) by classifying higher spatial resolution imagery from satellites or aircraft into classes that can be observed in the coarser resolution imagery. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-23
Ground Operations Plan	GOP		Technical - Operations	2009-01-27
Ground Operations Procedures		Procedures covering all ground related issues which are necessary for safe satellite operations.	Technical - Operations	2009-02-23
Ground Safety Data Package	GSDP		Management	2008-08-19
Ground Safety Review Panel	GSRP		Management	2009-02-23
Ground Sampling Distance	GSD	The barycentre to barycentre distance between adjacent spatial samples on the Earth's surface corresponding to respective detector pixels, i.e. in across-track as well as along-track direction, without consideration of along-track velocity.	Technical - Instrument	2009-02-23
Ground Segment	GS		Management	2008-08-19
Ground Segment - Critical Design Review	GSCDR		Management	2008-08-19
Ground Segment - Preliminary Design Review	GSPDR		Management	2008-08-19
Ground Segment - System Requirements Review	GSSRR		Management	2009-02-23
Ground Segment - Technical Verification and Validation Readiness Review	GSTVRR		Management	2009-02-23
Ground Segment - Technical Verification and Validation Review	GSTVVR		Management	2009-02-23
Ground Segment Baseline Definition	GSBD		Engineering	2009-02-23
Ground Segment Design Document	GSDD		Management	2009-02-23
Ground Segment Design Review	GSDR		Management	2009-02-23
Ground Segment Requirements	GSR	A Ground Segment Requirement states a need or expectation to the ground segment.	Management	2010-05-06
Ground Segment Requirements Document	GRD		Management	2009-02-24
Ground Station System	GSTS		Technical - Space-Ground Communications	2009-02-23
Ground Support Equipment	GSE		Engineering	2008-08-19
Ground Track		The vertical projection of the actual flight path of an aerial or space vehicle onto the surface of the Earth. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-23
GS Phase C Kick-off Meeting	GSCKM		Management	2008-08-19
Guidance List Element	GLE		Engineering	2009-02-23
Handbook	HDBK		Technical - General	2009-02-23
Hardware	HW		Technical - General	2009-02-23
Hardware - Software Interaction Analysis	HSIA		Engineering	2009-02-23
Hardware Decoded Command	HDC		Technical - Bus	2009-02-23
Hardware in the Loop Test	HILT		Engineering	2009-02-23
Hash-based Message Authentication Code	HMAC		Technical - Operations	2010-02-23
Hauptauftragnehmer	HAN		Management	2009-02-23
Hazard Report	HR		Management	2009-02-23
High Power Amplifier	HPA		Technical - General	2015-05-05
High Power Amplifier	HPA		Technical - Space-Ground Communications	2015-11-30
High Priority Commands	HPC		Technical - General	2009-02-23
HMAC-RIPEMD-160	HR-160		Technical - Operations	2010-02-23
Homogeneous		The same as spatially uniform. Homogeneous light - light with the same characteristics across the instrument aperture and field of view.	Technical - Instrument	2009-01-27

Term	Abbreviation	Definition	Category	Modified at
Horizontal Dilution of Precision	HDOP		Technical - Bus	2009-02-23
Horizontal Hoisting Device	HHD		Technical - Bus	2009-01-27
Housekeeping	HK		Technical - General	2009-02-23
Housekeeping History	HKH		Technical - General	2009-02-23
Housekeeping History File	HKHF		Technical - Data Management	2009-02-23
Housekeeping History Sample	HKHS		Technical - General	2009-02-23
Human-Machine Interface	HMI		Technical - Data Management	2009-02-23
Hyperschall Technologie G?ttingen	HTG		Organizations	2009-02-23
Hyper-Spectral	HS		Technical - General	2009-02-23
Hyper-Spectral Imager	HSI		Technical - Instrument	2009-01-27
Hyperspectral Mapper	HyMap		Organizations	2009-02-23
Hypertext Transfer Protocol	HTTP		Technical - Data Management	2009-02-23
Identification	ID		Technical - General	2009-02-23
Image		The recorded representation of an object produced by optical, electro-optical, optical-mechanical, or electronic means. It is the term generally used when the electromagnetic radiation emitted or reflected from a scene is not directly recorded on photographic film. (2) The optical counterpart of an object produced by a lens, mirror, or other optical system. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Instrument	2009-02-23
Image Acquisition		Refers to on S/C command and/or one consecutive S/C timeline resulting in one image or one calibration	Technical - Bus	2010-05-03
Image Swath		In a push broom imaging spectrometer the image of the entrance slit is dispersed and forms a curvature along the spatial axis. The keystone is the deviation of the centre of the Point Spread Function of the slit on the focal plane from the centre of a given detector element along the spatial axis. (specified as linear displacement of detector elements (pixel))	Technical - Instrument	2009-02-23
Implementation Change Request	ICR	Documentation to required modifications of a system. ICRs are always generated from an ECR.	Engineering	2009-02-23
In Operations	IOP		Technical - Operations	2009-02-23
In Orbit Operational Review - Ground Segment	IOOR		Management	2009-02-23
In Orbit Qualification Review - Ground Segment	IOQR		Management	2009-02-23
in situ		Latin for "in original place". Refers to measurements made at the actual location of the object or material measured. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - General	2009-01-27
Independent Control Point	ICP		Technical - General	2010-05-20
Independent SW Verification and Validation	ISVV		Engineering	2009-02-23
Indian Remote Sensing	IRS		Organizations	2008-08-19
Indian Remote Sensing Satellite	IRS-P6		Technical - General	2010-05-20
Indian Space Research Organization	ISRO		Organizations	2009-02-23
Individual Risk		risk identified, assessed, and mitigated as a distinct risk items in a project	Management	2010-06-08
Industrie Anlagen Betriebsgesellschaft	IABG		Organizations	2009-02-23
Inertial Measurement Unit	IMU		Technical - Bus	2009-02-23
Informative Reference	IR		Management	2010-05-31
InfoTerra Deutschland	ITD		Organizations	2009-02-23
Infoterra GmbH	IT		Organizations	2009-02-23
Infrared		Pertaining to or designating the portion of electromagnetic spectrum with wavelengths from the red end of the visible spectrum to the microwave portion of the spectrum, or from 700 nm to 1mm. Infrared waves are not visible to the human eye. Longer infrared waves are called thermal infrared waves. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2010-05-20
Infrastructure for Spatial Information in Europa	INSPIRE		Organizations	2009-02-23
In-Orbit Verification	IOV		Engineering	2009-02-16
Input Multiplexer Module	IMM		Technical - General	2009-02-23
Input/Output	IO		Technical - Data Management	2009-02-23
Inspection	I	Inspection is a Verification Method	Engineering	2009-01-27
Instantaneous field of view	IFOV	IFOV is field of view of one pixel. It defines pixel?s light acceptance angle and depends on the optical properties of the system.	Technical - Instrument	2010-03-04

Term	Abbreviation	Definition	Category	Modified at
Instantaneous Field-of-View		(1) The solid angle through which a detector is sensitive to radiation. In a scanning system this refers to the solid angle subtended by the detector when the scanning motion is stopped. instantaneous field of view is commonly expressed in milliradians. (2) The ground area covered by this solid angle. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Instrument	2009-02-23
Institut für Methodik der Fernerkundung	IMF		Organizations	2008-08-19
Institute of Electrical and Electronics	IEEE		Organizations	2009-02-23
Instituto Nacional de Técnica Aeroespacial	INTA		Organizations	2009-02-23
Instrument Characterization		The process of understanding in a quantitative sense the operation of the instrument and its response as a function of operating and viewing conditions. This includes determining temperature coefficients, scattering, stray light and ghost effects, polarization, stability, band passes, fields of view, channel to channel and detector to detector biases and differences, noise levels, electronic processing characteristics, optical transfer, the optimal operating envelop, failure modes ,etc.	Technical - Calibration/Validation	2009-02-26
Instrument Command Generator	ICG		Technical - Operations	2009-02-16
Instrument Configuration ID	ICID		Technical - Instrument	2009-02-16
Instrument Control and Processing Unit	ICPU	The ICPU executes the instrument control software and runs the instrument by macro command sequences defined for startup, observation, calibration. The instrument imaging is controlled by the ICPU.	Technical - Instrument	2009-02-23
Instrument Control Software	ICSW	The ICSW comprises the application software (statically linked to the operating system) including configuration files running at the HSI and controlling the operation of the HSI. The bootloader which loads the ICSW is not regarded as part of the ICSW since it is provided in a PROM by the manufacturer of the processor board.	Technical - Instrument	2009-02-23
Instrument cover structure	ICS	Instrument cover structure is a frame that surrounds IOU and is fastened to the bus. IPU and ICPU are mounted on ICS	Technical - Instrument	2010-04-08
Instrument Health Monitor	IHM		Technical - Operations	2009-02-23
Instrument Monitoring		Instrument Monitoring analyses main radiometric and spectral instrument characteristics as well as health data to assess long-term behaviour and resources of the entire instrument or main functional units.	Technical - Calibration/Validation	2009-02-16
Instrument Operation & Calibration Segment	IOCS		Engineering	2009-02-23
Instrument Optical Unit	IOU	The EnMAP instrument comprising structure, optical elements and the three focal plane units VNIR and the two SWIR units.	Technical - Instrument	2009-02-23
Instrument Planning	IP		Technical - Instrument	2010-05-31
Instrument Power Unit	IPU	A unit in cold redundancy configuration supplying the power from the EnMAP Bus to the EnMAP instrument.	Technical - Instrument	2009-02-23
Instrument Source Packet	ISP		Technical - Data Management	2021-04-29
Instrument Thermal Control Hardware	ITCH		Technical - Instrument	2012-12-11
Integral Non-Linearity	INL		Technical - Instrument	2009-02-23
Integrated Bus Test	ITB		Technical - Data Management	2021-04-29
Integrated Global Observing Strategy	IGOS		Organizations	2008-08-19
Integrated Instrument Test	IIT		Technical - Data Management	2021-04-29
Integrated Services Digital Network	ISDN		Management	2010-05-31
Integration		Process of physically and functionally combining of lower level items to obtain a particular configuration	Engineering	2009-02-23
Integration and Technical Verification and Validation	ITVV		Engineering	2009-01-27
Integration and Validation Plan	IVP		Engineering	2010-05-06
Integration Readiness Review	IRR		Engineering	2008-08-19
Interactive Data Language	IDL		Technical - Data Management	2009-01-27
Interactive Mail Access Protocol	IMAP		Technical - General	2016-03-27

Term	Abbreviation	Definition	Category	Modified at
Interface	I/F	An Interface is the technical or operational common bond(ing) between parts of two subsystems. It expresses that information is exchanged between two connected subsystems.  In the EnMAP Ground Segment context, an Interface is an electrical or operational common boundary between two subsystems of the ground segment. The term Interface is used to express that data/information is exchanged between two related subsystems.	Engineering	2009-03-05
Interface	IF		Technical - Space-Ground Communications	2015-11-30
Interface Control Document	ICD		Engineering	2009-02-23
Interface Coordinator	IC		Technical - Operations	2021-06-08
Interface Item	II	To be able to distinguish different types of data/information that are exchanged between subsystems of the EnMAP Ground Segment, the term Interface Item is introduced. An Interface Item (II) is identified by its Interface Item Identifier (II-ID). This Interface Item Identifier is used to reference a table in the EnMAP Ground Segment PMS-tool database that specifies a comprehensive set of parameters describing all details about the Interface Item.	Engineering	2016-05-13
Interface Item	II	An Interface Item is a constituent of an interface, where any part can be individually considered. It expresses how information is exchanged between two components (of two connected subsystems).	Engineering	2009-02-23
INTerface Requirement	INT		Management	2009-02-23
Interface Requirements Document	IRD		Management	2008-08-19
Interface Unit	IFU		Technical - General	2009-02-23
Interferometric Synthetic Aperture Radar	InSAR		Technical - General	2008-08-19
Intergovernmental Oceanographic Commission	IOC-UNESCO		Organizations	2009-02-23
Intermediate Frequency Section 1	IFS1		Technical - Space-Ground Communications	2009-02-16
Intermediate Frequency Section 2	IFS2		Technical - Space-Ground Communications	2009-02-16
Internal Calibration	ICAL		Technical - Calibration/Validation	2009-02-16
International Council for Science	ICSU		Organizations	2009-02-23
International Earth Rotation Service	IERS		Technical - General	2010-05-24
International Electrotechnical Commission	IEC		Organizations	2009-02-23
International Geosphere-Biosphere Program	IGBP		Organizations	2009-02-23
International Group of Funding Agencies	IGFA		Organizations	2009-02-23
International Human Dimensions Programme on Global Environmental Change	IHDP		Organizations	2010-06-08
International Laser Ranging Service	ILRS		Organizations	2008-08-19
International Organization for Standardization	ISO		Organizations	2009-03-05
International Space Station	ISS		Organizations	2009-02-23
International Telecommunication Union	ITU		Organizations	2008-08-19
International Terrestrial Reference Frame	ITRF		Technical - General	2010-05-20
Intravascular Activity	IVA		Organizations	2009-02-23
Invitation to Tender	ITT		Management	2009-02-23
Irradiance		The measure, in units of power, of radiant flux incident on a surface; it has the dimensions of energy per unit time. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-23
Item	I	An Item is a constituent of a component, where any part can be individually considered. It is the aggregation of hardware, software, equipments, procedures, roles or any of its discrete portions that is designated for configuration management and treated as a single entity. It is the functional characteristic of a part as defined by its technical or operational documents. The following item types are distinguished (separated for "Facility" and "Operations Organization"): - For "Facility": - Hardware (documented by manual and part list) - Software (documented by manual and source code/binary) - Equipment (documented by manual and part list/source code/binary) - Document - For "Operations Organization": - Procedure (documented in operations procedure) - Role (documents in operations plan) - Document	Engineering	2010-05-20
Item Information File	IIF		Technical - Data Management	2010-02-02



Term	Abbreviation	Definition	Category	Modified at
Item Version	IV	An Item Version is an instance of an item. It is an implementation of an item. It has been specifically identified for use in executing tests.	Engineering	2010-05-20
Jet Propulsion Laboratory	JPL		Organizations	2009-02-23
Jitter		Small rapid variations in a variable (such as a waveform) due to deliberate or accidental electrical or mechanical disturbances or to changes in the supply voltages in the characteristics of components, etc. Jitter effects arising from the oscillating mirrors and other movable components aboard Landsat are often a cause of certain anomalies in the image data received and must be compensated for by the ground processing system. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Instrument	2009-02-23
John F. Kennedy Space Center	KSC		Organizations	2009-02-23
Joint Photographic Experts Group	JPEG	The Joint Photographic Experts Group is the joint committee between ISO/IEC JTC1 and ITU-T (formerly CCITT) that created the JPEG, JPEG 2000, and JPEG XR standards. ;-)	Organizations	2016-04-27
Joint Photographic Experts Group 2000	JPEG2000	Image compression standard and coding system.	Technical - General	2016-04-27
Julian Year 2000	J2000	The standard reference epoch is 01-Jan-2000 12:00:00 ET, commonly called J2000. This is the beginning of the Julian year 2000, and corresponds to a Julian date of 2451545.0.	Technical - General	2010-08-19
Jupiter Icy Moons Orbiter	JIMO		Organizations	2009-02-23
Justification Document	JD		Engineering	2008-08-19
Kayser-Threde	KT		Organizations	2009-02-23
Kb		The abbreviation Kb represents 10 <sup>3</sup> bits (See also Mb, Kib and Mib).	Technical - Data Management	2009-01-27
Kennedy Space Center Handbook	KHB		Engineering	2009-02-23
Key Inspection Point	KIP		Management	2009-02-23
Keyed-Hash Message Authentication Code	HMAC		Technical - Space-Ground Communications	2009-02-23
Keystone		Keystone is a change in optical magnification with wavelength for a fixed field position resulting in bending of this field point spectrum along the spectral axis. The spectral axis is defined by the lines of detector pixels in dispersion direction.	Technical - Instrument	2009-02-23
Kib		The abbreviation Kib represents 2 <sup>10</sup> bits (See also Mb, Kb and Mib).	Technical - Data Management	2009-02-23
Kilobit per second	Kbps		Technical - Data Management	2009-02-23
k-Nearest-Neighbor	kNN		Technical - Data Management	2009-02-23
Kommunikation und Bodenstationen	KOB		Organizations	2015-05-05
Kyoto Protocol	KP		Organizations	2009-02-23
Lambert Azimutal Equal Area	LAEA		Technical - General	2010-05-20
Lancaster Software Entwicklung GmbH	LSE		Organizations	2009-02-23
Land Cover	LC		Applications	2009-02-23
Land Degradation Assessment in Drylands	LADA		Applications	2009-02-23
Land Management	LM		Applications	2009-02-23
Laser Communication Terminal	LCT		Technical - General	2009-02-16
Latching Current Limiter	LCL		Technical - General	2009-02-23
Latch-Up	LU		Technical - Bus	2009-02-23
Launch and Early Orbit Phase	LEOP	The critical first few orbits where appendage deployments are performed and the satellite is brought into a stable configuration. ( <a href="http://envisat.esa.int/glossary/">http://envisat.esa.int/glossary/</a> )	Technical - Operations	2009-02-16
Launch Readiness Review	LRR		Management	2009-02-23
Launch Service Provider	LSP		Organizations	2010-05-26
Leaf Area Index	LAI		Applications	2009-02-23
Least Significant Bit	LSB		Technical - Data Management	2009-02-23
Left-Hand Circular Polarisation	LHCP		Technical - Space-Ground Communications	2009-02-23
Level 0 Processing	L0P	L0P is designed for the generation of L0 products based on raw datatakes.	Technical - Data Management	2010-05-21
Level 0 Product	L0	Level 0 products are internal products, prepared for further processing. The L0 products are generated using the Level 0 Processing chain (L0P) and comprises also earth datatakes as well as calibration products.	Technical - Data Management	2010-06-08

Term	Abbreviation	Definition	Category	Modified at
Level 1 Product	L1	The Level 1 product is radiometrically calibrated, spectrally characterized, geometrically characterized, quality controlled and annotated with preliminary pixel classification (usability mask). The auxiliary information (e.g. position and pointing values, interior orientation parameters, gain and offset) necessary for further processing is attached, but not applied. The L1 product is generated by the L1 processor.	Technical - Data Management	2010-05-21
Level 2 Product	L2	The Level 2 product is derived from the Level 2geo product (L2geo), atmospherically corrected and the data converted to ground surface reflectance values.	Technical - Data Management	2009-02-24
Level 2atm Product	L2atm	The Level 2atm product is derived from the L1 product, atmospherically corrected and the data converted to ground surface reflectance values. Auxiliary data for further processing are attached, but not applied.	Technical - Data Management	2010-05-21
Level 2geo Product	L2geo	The Level 2geo product is derived from the L1 product and geometrically corrected (correction of sensor, satellite motion and terrain related distortions) and re-sampled to a specified grid (orthorectified). Auxiliary data for further processing are attached, but not applied.	Technical - Data Management	2010-05-21
Light-Emitting Diode	LED		Technical - Instrument	2009-02-23
Likelihood-of-Occurrence	LoO		Management	2008-08-19
Limited Performance Check	LPC		Engineering	2009-02-23
Line Energy Transfer	LET		Technical - General	2009-02-23
Linear Imaging Self-Scanning Sensor	LISS		Technical - Instrument	2010-05-20
Line-of-Sight	LOS		Technical - General	2010-05-06
Liste der zu liefernden Dokumente	LILI		Management	2009-02-23
Local Equator Crossing Time		Time of the satellite overpass in local time at the equator (i.e. constant for sun-synchronous orbits).	Technical - General	2009-03-01
Local Time Descending Node	LTDN		Technical - General	2009-02-23
Local Topocentric System	LTS		Technical - General	2010-05-20
Logical Authentication Channel	LAC	The LAC counter is one element to verify that the incoming command at the satellite is coming from the correct (authentic) source.	Technical - Space-Ground Communications	2021-04-29
Long Lead Item	LLI		Engineering	2009-02-23
Long-Range Transboundary Air Pollution	LRTAP		Applications	2009-02-23
Long-Term System Monitoring	LTSM		Technical - Calibration/Validation	2009-01-27
Look-up table	LUT	Look-up table contains input and output values. When LUT correction is applied a particular signal of input value has to be replaced by corresponding output value	Technical - Calibration/Validation	2010-03-04
Loop Heatpipe	LHP		Technical - Bus	2013-03-21
Loss of Mission	LoM		Management	2010-02-02
Loss of signal	LOS		Technical - Operations	2009-05-15
Lot Acceptance Test	LAT		Engineering	2009-02-23
Low Earth Orbit	LEO		Technical - General	2009-02-23
Low Noise Amplifier	LNA		Technical - Space-Ground Communications	2015-11-30
Low Voltage Differential Signalling	LVDS		Technical - General	2009-02-23
Low Voltage Transistor Transistor Logic	LVTTTL		Technical - General	2009-03-05
Lyndon B. Johnson Space Center	JSC		Organizations	2009-02-23
Macrocommand	MC	The commands sent from the satellite bus to the HSI via mil-Bus are referred to as macrocommands.	Technical - Instrument	2010-02-02
Macrocommand Sequence	MCS	Macro commands can be assembled to lists which are processed sequentially. These command lists are referred to as Macro Command Sequence.	Technical - Instrument	2010-02-02
Magnet Torquer	MT		Technical - Bus	2009-02-23
Magnetometer	MM		Technical - Bus	2009-02-23
Maintenance Plan	MP		Technical - Operations	2009-02-23
Maintenance Significant Items List	MSIL		Engineering	2009-02-23
Major Inspection Point	MIP		Management	2009-02-16
Management File	MGT		Management	2009-02-23
Man-Machine Interface	MMI		Technical - Data Management	2009-02-23
Manual Stack	MSTK		Technical - Space-Ground Communications	2020-06-24

Term	Abbreviation	Definition	Category	Modified at
Manufacturing Readiness Review	MRR		Management	2009-02-23
Manufacturing, Assembly, Integration & Test	MAIT		Engineering	2009-02-23
Marshal Space Flight Centre	MSFC		Organizations	2009-02-23
Mass Memory	MM		Technical - Data Management	2008-08-19
Master Time Line	MTL		Technical - Operations	2009-02-16
Material and Process Technical Information System	MAPTIS		Management	2009-02-23
Material Review Board	MRB		Management	2009-02-23
Material Usage Agreement	MUA		Engineering	2009-02-23
Material, Mechanical Parts and Processes	MMPP		Engineering	2009-02-23
Materials Identification and Usage List	MIUL		Engineering	2009-02-23
MATrix LABoratory	MATLAB	developed by The MathWorks	Engineering	2010-05-20
Maximum Expected Operating Pressure	MEOP		Technical - Operations	2009-02-16
Mb		The abbreviation Mb represents 10 <sup>6</sup> bits (See also Kb, Kib and Mib).	Technical - Data Management	2009-01-27
Mean Square Positional Error	MSPE		Technical - General	2009-02-23
Mean Time Between Failure	MTBF		Technical - General	2009-02-23
Mean Time to Repair	MTTR		Technical - General	2009-02-23
Mechanical Ground Support Equipment	MGSE		Engineering	2009-02-23
Medium Resolution Imaging Spectrometer	MERIS		Organizations	2009-02-23
Megabit per second	Mbps		Technical - Data Management	2009-02-23
Memorandum of Understanding	MoU		Management	2009-02-23
Memory Array Board	MAB		Technical - General	2009-02-24
Memory Control Board	MCB		Technical - General	2009-02-23
Memory Sub-Unit	MSU		Technical - General	2009-02-23
Mercury Cadmium Telluride	MCT		Technical - General	2009-02-23
Metadata		Information describing the content or utility of a data set. For example, the dates on which data were procured are metadata. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - Data Management	2009-01-27
Meteorite & Earth Orbital Debris	MEOD		Technical - General	2009-02-23
Mib		The abbreviation Mib represents 2 <sup>20</sup> bits (See also Kb, Mb and Kib).	Technical - Data Management	2009-02-23
Military	MIL		Organizations	2009-02-23
Minutes of Meeting	MoM		Management	2009-02-23
Mission Analysis and Operations Concept	MAOCD		Technical - Operations	2009-02-23
Mission Close-Out Review - Ground Segment	MCOR		Management	2009-02-23
Mission Data System	MDS		Engineering	2009-02-23
Mission Definition Review	MDR		Management	2009-02-23
Mission Elapsed Time	MET		Technical - Operations	2010-02-02
Mission Information Base	MIB		Technical - Operations	2010-05-20
Mission Manager	MM		Technical - Operations	2021-06-08
Mission offline-processing system	MOPS		Technical - Operations	2010-05-26
Mission Operation Close-out Review	MOCR		Management	2009-02-23
Mission Operations Director	MOD		Technical - Operations	2009-02-23
Mission Operations Information System	MOIS	by Rhea System S.A.	Technical - Data Management	2009-02-23
Mission Operations Manager	MOS		Management	2010-02-02
Mission Operations Plan	MOP		Management	2010-04-08
Mission Operations Segment	MOS		Management	2009-02-23
Mission Operations Team	MOT		Technical - Operations	2009-02-23
Mission Planning Subsystem Requirements	MPSRD		Management	2009-02-23
Mission Planning System	MPS		Engineering	2008-08-19
Mission Requirement Document	MRD		Management	2009-02-23
Mission Time On-board	MTO		Technical - Bus	2009-02-23
Model-View Controller	MVC		Technical - Operations	2009-02-23
MODerate resolution atmospheric TRANsmission	MODTRAN		Technical - General	2010-05-20

Term	Abbreviation	Definition	Category	Modified at
Moderate Resolution Imaging Spectrometer	MODIS		Organizations	2009-02-23
Moderate Resolution Imaging Spectroradiometer	MODIS		Technical - Instrument	2010-05-20
Moderate Resolution Transmittance	MODTRAN		Technical - Data Management	2009-02-23
Modified off-the Shelf	MOTS		Engineering	2010-06-08
Modular Inversion Processor	MIP		Technical - Data Management	2009-02-23
Modular Optoelectronic Multispectral Scanner	MOMS		Technical - Instrument	2009-02-23
Modular Optoelectronic Scanner	MOS		Organizations	2009-02-23
Modulation Transfer Function	MTF	The geometric description of a detector's instantaneous field-of-view (IFOV) from the satellite. The modulation transfer function (MTF) is a frequency-based characterization of the IFOV of the plane area of a specific detector that is both sensitive to and exposed to radiation from the imaging optics. The full-width-at-half-maximum (FWHM) of a 2-dimensional line-spread function is a spatial representation of IFOV. MTF is the ratio of the contrast of the output to the input image as a function of frequency. MTF is defined as the magnitude of the Fourier transform of the line spread function. Common units of IFOV are radians, steradians (sr) or degrees. Because of the common optics and the similar size, detectors within a spectral band are usually assumed to have identical IFOVs. An IFOV expressed in spatial rather than angular units, such as 30 m for a TM detector, is altitude-dependent. An instrumental in-vacuum MTF is modulated further by the atmosphere, which broadens the nominal instrumental IFOV, such that it is not possible to resolve features as easily on the ground. If the structural aspects of the optics of the imager are changing with time from factors such as expansion or contraction from outgassing of water in space, then the IFOV or MTF will also change. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Instrument	2009-02-23
Moment Of Inertia	MOI		Technical - Bus	2009-02-23
Monitoring	Mon	Monitoring is a process of constant or periodical measurements of certain parameters in order to assess their stability	Technical - Calibration/Validation	2009-02-23
Monitoring & Alarm	MA	The DIMS component constantly monitors the health of all DIMS services and the states of the requests handled by them. In case of anomalies alarm messages are sent to the operators in charge	Technical - Data Management	2010-03-04
Monitoring & Control	M&C		Technical - Operations	2009-02-23
Monitoring and Control System	MCS		Engineering	2008-08-19
Monocular Electro Optical Stereo Scanner	MEOSS		Technical - General	2010-05-20
Most Significant Bit	MSB		Technical - Data Management	2009-02-16
Motor Industry Software Reliability Association	MISRA		Organizations	2009-02-23
Multi Mission Flight Support	MMFS		Technical - Operations	2009-02-23
Multi-Layer Insulation	MLI		Technical - General	2009-02-23
Multiplexed Access Point	MAP		Technical - Bus	2009-02-23
Multi-Spectral	MS		Technical - General	2009-02-23
Nadir		That point on the celestial sphere vertically below the observer (i.e. the point on the Earth directly below an orbiting satellite), or 180° from the zenith. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-23
NAGIOS	NAGIOS	NAGIOS is a monitoring system that enables organizations to identify IT infrastructure problems. Under GNU General Public License published See <a href="http://www.nagios.org">http://www.nagios.org</a> .	Technical - General	2010-05-26
NASA Communications Network	NASCOM		Organizations	2009-02-23
NASA Parts Selection List	NPSL		Engineering	2009-02-23
National Aeronautics & Space Administration	NASA		Organizations	2009-02-23
National Space Transportation System	NSTS		Organizations	2009-02-23
National Space Transportation System / ISS	NSTS/ISS		Organizations	2009-02-23
Network Controller and Telemetry Router	NCTRS		Technical - Space-Ground Communications	2009-02-23
Network Data Interface Unit	NDIU		Technical - Space-Ground Communications	2009-02-23
Network File System	NFS	specific brand of distributed file system	Technical - Data Management	2010-05-21
Network Time Protocol	NTP		Technical - General	2009-05-15
Neustrelitz	NZ		Organizations	2009-02-23

Term	Abbreviation	Definition	Category	Modified at
Neustrelitz Ground Station	NSG		Engineering	2009-02-23
Noise		Any unwanted disturbance affecting a measurement (as of a frequency band), especially that which degrades the information-bearing quality of the data of interest. Noise determines the precision with which a radiometric measurement can be made. The standard deviation of a measurement is a common method for defining noise. Noise includes systematic or random sources. Systematic noise is constant or modelable with time and includes coherent noise, scan-correlated-shift, banding and striping and others, which reduce the ability to extract information from images. Systematic noise is potentially reducible with ground processing. Random noise, or white noise, is not correctable, but the uncertainty of estimates of the mean value can be reduced by multiple measurements, which are subject only to random noise. The potential degradation of signal from variations in the analog reference signal from space are reduced by using analog-to-digital converters and then adding error correction code to the digital signal to allow the exact original digital number to be recovered in ground processing even if it was degraded in transit. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Instrument	2009-02-23
Noise Characterisation	NCH		Technical - Calibration/Validation	2009-02-23
Noise Equivalent Radiance	NER	At-Sensor Radiance level corresponding to a SNR = 1.	Technical - Calibration/Validation	2009-02-23
Non-Conformance	NC		Management	2009-02-23
Non-Conformance Report	NCR	Documentation of problems being identified during testing and operation, where a system or product does not perform according to valid requirements.	Management	2009-02-23
Non-conformance Review Board	NRB		Management	2009-02-23
Non-destructive Inspection	NDI		Engineering	2009-02-23
Nonelectronic Parts Reliability Data	NPRD		Engineering	2008-08-19
Non-Governmental Organizations	NGO		Organizations	2009-02-23
Non-Operations	NOP		Technical - Operations	2009-02-23
Non-return-to-Zero-Level	NRZ-L		Technical - Space-Ground Communications	2015-11-30
Non-Uniformity Correction	NUC		Technical - Instrument	2009-02-23
Non-Volatile memory	NOV		Technical - General	2009-02-23
Normative Document	ND		Management	2009-02-23
Normative Reference	NR		Management	2010-05-31
North American Aerospace Defense Command	NORAD	North American Aerospace Defense Command (NORAD). Aerospace warning and Aerospace control.	Organizations	2010-05-21
Not Applicable	N/A		Management	2009-02-23
Oberpfaffenhofen	OP		Organizations	2010-04-27
Object Feature-based Image Registration Algorithm	OFIRA		Technical - General	2010-05-20
Object Oriented Design	OOD		Technical - General	2009-02-23
Object-Oriented Analysis	OOA		Technical - General	2009-02-23
Observation Area	OA	Observation Areas (OA) are regions on Earth's surface considered as targets for hyperspectral imaging with EnMAP-HSI. OAs are defined through sets of geographic coordinates. The parameter set depends on the type of Observation Request, i.e. whether the data can be acquired with a single data take or whether multiple passes are required.	Technical - Operations	2010-06-08
Observation Planning	OP	Observation Planning (OP) is a planning activity performed by users ahead of submitting a Proposal or issuing an Observation Request. OP is supported by the EnMAP Data Access Portal with the same tools used for processing Observation Requests.	Technical - Operations	2010-05-22
Observation Request	OR	Observation Requests (OR) are requests issued by registered users to the ground segment through the Data Access Portal asking for Data Takes. The OR provides all information required for scheduling data takes such as location and extension of the Observation Area, acquisition time-frame, sensor look angle, and data product level(s).	Technical - Operations	2009-08-11
Off-the-shelf	OTS		Engineering	2009-02-23
On-board Calibration		On-board calibration includes dedicated measurements using on-board means (Sun or Moon measurements, internal lamps, LEDs etc.) as well as the on-ground analysis of the measurement data to derive radiometric, spectral and geometric characteristics of the instrument on ground.	Technical - Calibration/Validation	2009-02-23

Term	Abbreviation	Definition	Category	Modified at
On-Board Calibration Assembly	OBCA	An Ulbricht style sphere equipped with lamps and diodes as reference light source for spectral, radiometric, linearity and PRNU calibration of the EnMAP instrument.	Technical - Instrument	2012-12-11
Onboard Computer	OBC		Technical - Space-Ground Communications	2015-11-30
On-Board Data Handling	OBDAH		Technical - Data Management	2009-02-23
On-Board Event History	OBEH		Technical - Operations	2010-02-19
On-board Orbit Propagator	OOP		Technical - Bus	2010-05-06
On-Board Software System	OBS		Technical - Space-Ground Communications	2020-06-25
On-Board Time	OBTime		Technical - Bus	2008-08-19
One Time Actuator	OTA		Technical - Bus	2013-03-21
Online/Offline Product Generation and Delivery	OPG	The DIMS component OPG generates custom-made delivery packages of ordered product items, either for online transfer or on media. It controls devices like CD/DVD production systems or tape autoloaders	Technical - Data Management	2010-03-04
Open Geospatial Consortium	OGC		Technical - General	2016-04-27
Open Systems Interconnection	OSI		Technical - General	2009-02-23
Operating System	OS		Technical - General	2009-02-16
Operating Tool	OT	The DIMS component OT is the graphical user interface to DIMS that allows operators to browse, visualize and manipulate the product library contents, the system status or the active requests at the DIMS services.	Technical - Data Management	2010-03-04
Operational Applicable Document	OAD		Technical - Operations	2009-02-23
Operational Readiness Review	ORR		Management	2009-02-23
Operational Requirement	OPE		Management	2009-02-23
Operational Training Plan	OTP		Management	2010-04-21
Operational Validation Plan	OVP		Management	2010-04-13
Operational Validation Readiness Review	OVR		Management	2009-02-23
Operations Mission Manager	OMM		Technical - Operations	2021-06-08
Operations System Engineer	OSE		Technical - Operations	2021-06-08
Optical Ground Support Equipment	OGSE		Engineering	2009-01-27
Orbit		The path described by a heavenly body in its periodic revolution. Earth satellite orbits with inclinations near 0 degree are called equatorial orbits because the satellite stays nearly over the equator. Orbits with inclinations near 90 degrees are called polar orbits because the satellite crosses over (or nearly over) the north and south poles. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - General	2009-02-16
Orbit Control System	OCS		Technical - Bus	2009-02-23
Orbital Node		Either of the two points at which the orbit of a heavenly body intersects a given plane, especially the plane of ecliptic. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Bus	2009-02-23
Orbital Period		The interval in time between successive passages (orbits) of a satellite through a reference plane. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-23
Orbital Replaceable Unit	ORU		Technical - General	2009-02-23
Orbitale Hochtechnologie Bremen-System AG	OHB		Organizations	2010-05-31
Ordering Control	OC	The DIMS component OC is responsible to host, handle and process all orders from customers within the DIMS context. It provides ordering workflow functions including customer management, order status reporting, sensitivity checks, initiation of production and dissemination as well as for order accounting support.	Technical - Data Management	2010-03-04
Out-of-limit	OOL		Technical - Data Management	2010-04-22
Output Multiplexer Unit	OMU		Technical - General	2009-02-23
Overall Risk		risk resulting from the Assessment of the combination of individual risks and their impact on each other, in the context of the whole project. NOTE - Overall risk can be expressed as a combination of qualitative and quantitative assessment.	Management	2009-01-27
Over-Voltage	OV		Technical - General	2009-02-23
Packet Telemetry Decoder	PTD		Technical - Space-Ground Communications	2009-02-23
Packet Utilisation Standard	PUS		Technical - General	2009-02-16

Term	Abbreviation	Definition	Category	Modified at
Panchromatic Remote-sensing Instrument for Stereo Mapping	PRISM		Technical - Instrument	2010-05-20
Panel Calibration Network	PCN		Technical - Calibration/Validation	2009-02-23
Panel Distribution Network	PDN		Technical - Calibration/Validation	2009-02-23
Part Procurement Control Board	PPCB		Engineering	2009-02-23
Parts Approval Document	PAD		Management	2009-02-23
Parts, Materials and Processes	PMP		Engineering	2009-02-23
Payload	P/L	The instruments that are accommodated on a spacecraft. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Engineering	2009-02-16
Payload Ground Operations Director	PGOD		Technical - Operations	2021-06-08
Payload Ground Segment	PGS		Management	2009-02-23
Payload Hazard Report	PHR		Management	2009-02-23
Payload Mission Manager	PMM		Technical - Operations	2009-02-23
Payload Organization	PO		Engineering	2009-02-23
Payload Safety Review Panel	PSRP		Management	2009-02-23
PERformance Requirement	PER		Management	2009-02-23
Perigee		The point in the orbit of heavenly body, especially of a man-made satellite, at which it is nearest the Earth. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-01-27
Personal Computer	PC		Technical - Data Management	2009-02-23
Photo Response Non Uniformity	PRNU		Technical - Instrument	2008-03-26
Photo Response Non-Uniformity	PRNU	Photo response non-uniformity is one source of pattern noise in detector arrays. It is seen as the variation in pixel responsivity to the same illumination over the array	Technical - Calibration/Validation	2010-06-08
Photosynthetic Active Radiation	PAR		Technical - Instrument	2009-02-23
Physical Configuration Verification Review	PCVR		Management	2009-02-16
Physiological Reflectance Index	PRI		Technical - Instrument	2009-02-23
Pickup Point	PP		Technical - Data Management	2017-04-24
Pitch		The rotation of a spacecraft about the horizontal axis normal to its longitudinal axis (in the along-track direction) so as to cause a nose-up or nose-down, attitude. The pitch axis is referred to as the x-axis. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-23
Pixel		Picture element = Ground area corresponding to a single element of a digital image data set. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - Instrument	2009-02-23
Planning Tool	PLATO		Technical - Operations	2009-02-16
Point Spread Function	PSF	Image of a point like object on the focal plane.	Technical - Instrument	2009-02-23
Pointing Accuracy		Deviation of the commanded viewing direction of the image centre from the actual viewing direction of the image centre in orbit.	Technical - Bus	2009-02-23
Pointing Capability		Possibility to record an image of the Earth surface with the image centre viewed in off-nadir position. This is usually realised by either turning the satellite or by means of additional optical elements.	Technical - Bus	2009-02-23
Pointing Knowledge		Knowledge of the actual viewing direction of the image centre in orbit.	Technical - Bus	2009-02-23
Polarization Sensitivity		The polarization sensitivity is defined as $P = (S_{max} - S_{min}) / (S_{max} + S_{min})$ , where $S_{max}$ and $S_{min}$ are the maximum and minimum At-Sensor Radiance values obtained when the polarization is gradually rotated over 180° measuring a stable, spatially uniform, linearly polarized signal.	Technical - Instrument	2009-02-23
Polyaromatic Hydrocarbons	PAH		Technical - General	2009-02-23
Portable Document Format	PDF		Technical - General	2016-04-27
Portable Document Format/A	PDF/A	ISO-standardized version of the Portable Document Format (PDF) specialized for the digital preservation of electronic documents	Technical - General	2016-04-27
Position, Velocity, Time	PVT		Technical - General	2009-02-23
Positional Dilution of Precision	PDOP		Technical - Bus	2009-02-23
Post Test Review	PTR		Management	2010-05-26
Power	PWR		Technical - Operations	2009-03-05
Power Amplifier Unit	PAU		Technical - General	2009-02-23
Power Converter Module of DSHA	PCM		Technical - Bus	2013-03-21

Term	Abbreviation	Definition	Category	Modified at
Power Flux Density	PFDF		Technical - General	2009-02-23
Power Supply Electronics	PSE		Technical - General	2009-02-23
Power Supply RFE	PSR		Technical - General	2009-02-23
Power Thermal Subsystem	PTS		Technical - Data Management	2021-04-29
Preferred Parts List	PPL		Management	2009-02-23
Preliminary Design Review	PDR		Management	2009-02-23
Preliminary Requirements Review	PRR		Management	2009-02-23
Preparation	PREP		Technical - Space-Ground Communications	2015-11-30
Pre-Transmission Validation	PTV		Technical - General	2020-10-21
Primary Bootstrap Loader	BSL1		Technical - Bus	2009-02-16
Primary Power Distribution Panel	PPDP		Technical - General	2009-01-27
Principal Investigator	PI		Organizations	2009-02-23
Printed Circuit Board	PCB		Engineering	2009-02-23
Probability (of occurrence) Number	PN		Engineering	2009-02-23
Process Identification	PID		Technical - Data Management	2009-02-23
PROcess oriented Modular Environment and Vegetation model	PROMET-V		Applications	2009-02-23
Processing Request	PcR	Processing Requests are subjobs of a Production Request(PdR) in Processing System Management (PSM)	Technical - Data Management	2010-05-26
Processing System	PS	A Payload Ground Segment (PGS) Processing System is the operational unit responsible for the processing of EnMAP HSI data, i.e. the generation of products of one or more product types. It comprises one or more processors and a Processor Control System integrating these processors into the operational environment of the Data & Information Management System (DIMS). The Processor Control System manages the data flow between DIMS and the processors; it is build by a DIMS Processing System Management (PSM) and a configuration including adapters to the processors.	Technical - Data Management	2009-02-16
Processing System Management	PSM	DIMS (Data & Information Management System) component within a Processing System responsible for administrative tasks like cache management and scheduling.	Technical - Data Management	2010-06-08
Processor and Calibration/Validation	PCV		Management	2010-05-26
Processors and Calibration Operations Director	PCOD		Technical - Operations	2021-06-08
Product			Engineering	2016-05-13
Product Assurance	PA		Management	2009-02-23
Product Assurance & Safety	PA/S		Management	2009-02-23
Product Assurance Director	PAD		Technical - Operations	2021-06-08
Product Assurance Plan	PAP		Management	2009-02-23
Product Library	PL	The PL is the central component of DIMS responsible for consistent long-term storage of digital products. It is backed up on archiving solutions for primary data and database systems for the inventory. Various other DIMS components use the PL to access metadata and data	Technical - Data Management	2010-03-04
Product Tree		The product tree is the breakdown of the system into successive levels of hardware and software products or elements, based on the functions identified.	Engineering	2009-02-23
Production Control	PC	The DIMS component PC is responsible for production chain organization and workflow functions. It provides a flexible configuration interface that allows to plug-in workflow specific logic.	Technical - Data Management	2010-03-04
Production Request	PdR	Production requests are exchanged between DIMS Ordering Control (OC), DIMS Production Control (PC) and the Processing System Management (PSM) component of connected processing systems. A production request contains information about input products, output products, processing parameters and additional administration parameters.	Technical - Data Management	2010-06-08
Program For Interactive Timeline Analysis	PINTA		Technical - Operations	2009-01-27
Program Memory	PM		Technical - General	2009-02-23
Programmable Read-Only Memory	PROM		Technical - General	2009-03-05
Project Management	PM		Management	2009-02-23
Project Management Support-Tool	PMS		Management	2010-05-03



Term	Abbreviation	Definition	Category	Modified at
Project Requirements Document	PRD		Management	2009-02-23
Project Review Board	PRB		Management	2009-02-16
ProjektLeiter Arbeitskreis	PLA		Management	2009-02-23
Protoflight Model	PFM		Engineering	2009-02-23
Pseudo-Random Noise	PRN		Technical - Space-Ground Communications	2015-11-30
PSM Processing Node	PNode		Technical - Data Management	2010-05-21
Public Private Partnership	PPP		Organizations	2009-02-16
Pulse per Second	PPS		Technical - General	2009-02-23
Pulse Tube Cooler	PTC		Technical - General	2009-02-23
Pulse Width Modulation	PWM		Technical - Space-Ground Communications	2009-02-23
Quadrature Phase Shift Keying	QPSK		Technical - Space-Ground Communications	2009-02-23
Qualification		Process of verifying whether a design confirms to its requirements including margins	Management	2009-03-05
Qualification Model	QM		Engineering	2009-02-23
Qualification Review	QR		Management	2009-02-23
Qualification Test	QT		Engineering	2009-02-23
Qualified Manufacturer List	QML		Management	2009-02-23
Qualified Parts List	QPL		Engineering	2009-02-23
Quality	Q		Management	2009-02-23
Quality Assurance	QA		Management	2009-02-23
Quality Assurance Manager	QAM		Management	2009-02-23
Quality Conformance Inspection	QCI		Management	2009-02-23
Quality Control and Ground Calibration	QCGC		Technical - General	2021-06-08
Quantization Level		The number of numerical values used to represent a continuous quantity. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-01-27
Quantize		(1) To restrict a variable to discrete values, each of which is normally an integral multiple of the same quantity. (2) To process a range of grey shades, from maximum to minimum, such that the entire range is divided into contiguous intervals of normally equal lengths, each being assigned an integer value unique to the grey shade corresponding to it. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-23
Quantum Well Infra-red Photodetector	QWIP		Technical - Instrument	2009-02-23
Quicklook	QL		Technical - Data Management	2009-01-27
RACE Integrity Primitives Evaluation Message Digest	RIPEMD		Technical - Operations	2010-05-31
Radar Parameter Generator	RPG		Technical - General	2009-02-23
Radiaci?n y Microondas S.A	Rymsa		Organizations	2009-02-23
Radial, Tangental, Normal	RTN	This coordinate system is based on the location of the spacecraft relative to the Sun and the Sun's rotation axis. It is a spacecraft centered coordinate system. It is most useful for periods when the spacecraft is in interplanetary space. R = R Points from the Sun to the spacecraft T = W x R The Sun's rotation vector crossed into R N = X x Y Completes the right-handed triad	Technical - General	2010-05-26
Radiance		Measure of the energy radiated by an object. In general, radiance is a function of viewing angle and spectral wavelength and is expressed as energy per solid angle. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-23
Radiation		The process by which electromagnetic energy is propagated through free space by virtue of joint undulatory variations in the electric and magnetic fields in space. This concept is to be distinguished from conduction and convection. Also, the process by which energy is propagated through any medium by virtue of the wave motion of that medium, as in the propagation of sound waves through the atmosphere. Also called radiant energy and electromagnetic radiation. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Instrument	2009-02-23
Radiation Verification Testing	RVT		Engineering	2009-02-24
Radio Frequency	RF		Technical - Space-Ground Communications	2009-02-24
Radio Frequency Distribution Unit	RFDU		Technical - Space-Ground Communications	2009-02-23
Radiometer		An instrument for detecting and measuring electromagnetic radiant energy. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Instrument	2009-02-23

Term	Abbreviation	Definition	Category	Modified at
Radiometric Calibration Accuracy		Knowledge of absolute At-Sensor Radiance derived from sensor signal measurements and traceable to a primary standard.	Technical - Calibration/Validation	2009-02-23
Radiometric Resolution	RR	Radiometric resolution is the Noise Equivalent Radiance which is derived from the SNR specification for VNIR and SWIR range respectively, corresponding to the least significant bit representation of the measurement chain.	Technical - Instrument	2009-02-23
Radiometric Response		Radiometric response (the same as gain/slope/calibration coefficient) is a ratio between the input and output signals	Technical - Instrument	2009-01-27
Radiometric Stability		Change of end-to-end instrument response between calibration cycles at a constant at-sensor radiance level.	Technical - Instrument	2009-02-23
Rational Polynomial Coefficients	RPC		Technical - General	2010-06-08
Rational Polynomial Functions	RPF		Technical - General	2010-05-06
Raumflugbetrieb	RB		Organizations	2010-05-31
Reaction Wheel	RW		Technical - Bus	2009-02-23
Read-Out Integrated Circuit	ROIC		Technical - General	2009-02-24
Real Packet Length	RPL		Technical - Space-Ground Communications	2009-01-27
Real Time	RT		Technical - Space-Ground Communications	2017-04-24
Real Time Clock	RTC		Technical - General	2009-02-23
real-time		the actual time during which something takes place [acc. to Meriam-Webster]. Characteristic in case of data transfers is a negligible time-delay between the data gathering and transmission. Implied is a on-going uninterrupted stream, that allows observation of processes in parallel.	Technical - General	2009-02-23
Real-Time Executive for Multiprocessor Systems	RTEMS		Technical - Data Management	2009-02-23
Real-Time Operating System	RTOS		Technical - Data Management	2009-02-23
Receiver	RCV		Technical - Space-Ground Communications	2015-11-30
Receiver	RX		Technical - Space-Ground Communications	2015-11-30
Receiving Station Interface	RSI		Technical - Space-Ground Communications	2009-02-23
Rectification		Process by which a tilted or oblique image is projected onto a horizontal reference plane, the angular relation between the image and the plane being determined by ground reconnaissance. For example if the image is taken of an equally spaced rectangular grid pattern, then the rectified image will be an image of an equally spaced rectangular grid pattern. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Data Management	2009-02-23
Redundant Array of Independent Discs	RAID		Technical - Data Management	2009-02-23
Reed-Solomon (error correction)	R/S		Technical - Space-Ground Communications	2017-04-24
Reference Document	RD		Management	2009-02-24
Region of Interest	RoI		Technical - General	2009-02-24
Reliability Analysis Center	RAC		Engineering	2009-02-23
Reliability Block Diagram	RBD		Engineering	2009-02-23
Reliability, Availability & Maintenance	RAM		Engineering	2009-02-23
Remote Sensing	RS		Technical - General	2009-02-24
Remote Terminal	RT		Technical - Data Management	2017-04-24
Replay Index	RPLIDX		Technical - Operations	2009-01-27
Report Entry	RE		Management	2009-02-23
Request for Approval	RfA		Management	2009-02-24
Request for Comments	RFC		Technical - General	2016-04-27
Request for Deviation	RfD		Management	2009-02-23
Request for Waiver	RfW		Management	2009-02-24
Request Library	RL	The DIMS component RL encapsulates the storage of requests providing a simple but comprehensive interface for DIMS services having requests to store for the long term.	Technical - Data Management	2010-03-04
Request-TO-Command-Converter	R2CC		Technical - Operations	2009-02-23
Research and Development	R&D		Management	2009-02-23
Residual Risk		Risk remaining after implementation of risk reduction measures.	Management	2009-02-16
Resolution		A measure of the ability to separate observable quantities. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - Instrument	2009-02-23

Term	Abbreviation	Definition	Category	Modified at
Resolved Risk		Risk that has been rendered acceptable.	Management	2009-02-23
Response Non-Uniformity	RNU	RNU is variation in responsivity of the detector pixels to the same illumination over the entrance aperture and FOV of the system. RNU depends on the detector PRNU as well as on non-uniformity in light propagation due to optical and mechanical causes. In EnMAP RNU is applicable to the spectral row	Technical - Calibration/Validation	2010-04-08
Review Item Discrepancy	RID	Non-conformance or discrepancy identified during a project review and formally documented within.	Management	2009-02-23
Review of Design	RoD		Management	2009-02-24
RF Electronics Assembly	RFEA		Technical - Space-Ground Communications	2015-11-30
Right Ascension	RA		Technical - General	2009-02-23
Right-Hand Circular Polarisation	RHCP		Technical - Space-Ground Communications	2009-02-23
Risk		Undesirable situation or circumstance that has both a likelihood of occurring and a potential negative consequence on a project. NOTE - Risks arise from uncertainty due to a lack of predictability or control of events. Risks are inherent to any project and can arise at any time during the project life cycle; reducing these uncertainties reduces the risk.	Management	2009-02-23
Risk Index	RI	Score used to measure the magnitude of the risk; it is a combination of the likelihood of occurrence and the severity of consequence, where scores are used to measure likelihood and severity.	Management	2009-02-24
Risk Item Manager	RIMan		Management	2009-02-23
Risk Management	RM		Management	2009-02-24
Risk Management Policy		Describes the organization's attitude towards risks, how it conducts risk management, the risks it is prepared to accept and defines the main requirements for the risk management plan.	Management	2009-02-24
Risk Management Process		Consists of all the project activities related to the identification, assessment, reduction, acceptance, and feedback of risks.	Management	2009-02-24
Risk Reduction		Implementation of measures that leads to reduction of the likelihood or severity of risk. NOTE - Preventive measures aim at eliminating the cause of a problem situation, and mitigation measures aim at preventing the propagation of the cause to the consequence or reducing the severity of the consequence or the likelihood of the occurrence.	Management	2009-02-24
Risk Scenario		Sequence or combination of events leading from the initial cause to the unwanted consequence NOTE The cause can be a single event or something activating a dormant problem.	Management	2009-02-24
Roll		The rotation of a spacecraft about its longitudinal axis (in the along-track direction) so as to cause a side-up or side-down attitude. The roll axis is referred to as the y-axis. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-01-27
Root Mean Square	RMS		Engineering	2009-02-24
Root Mean Square Error	RMSE		Technical - General	2010-05-21
Run Length Code	RLC		Technical - General	2010-05-20
Run-Length Encoding	RLE		Technical - Data Management	2009-02-23
Russian Space Agency	ROSAVIAK OS		Organizations	2009-02-24
Safe Working Load	SWL		Technical - Bus	2009-02-23
Safe-And-Arm Plug	SAAP		Technical - Bus	2009-02-23
Safety	S		Management	2009-02-23
Safety Data Package	SDP		Management	2009-01-27
Safety Verification Tracking Log	SVTL		Engineering	2010-05-26
SAR Performance Estimator	SPE		Technical - General	2009-02-24
Satellite / Launcher Interface Protectiv	SLIPR		Technical - General	2009-01-27
Satellite Bus Requirement Specification	RS-B		Technical - Bus	2009-02-23
Satellite Control Center	SCC		Technical - Operations	2009-02-23
Satellite Integration Stand	SIS		Technical - Bus	2009-01-27
Satellite Lead	SatLead		Technical - Operations	2021-06-08
Satellite Management System	SMS		Technical - Bus	2009-02-23
Satellite Management Unit	SMU		Technical - Bus	2009-01-27

Term	Abbreviation	Definition	Category	Modified at
Satellite Support Team	SST		Technical - Operations	2009-03-05
Satellite Test and Operations Language	STOL		Technical - General	2009-02-16
Satellitendatensicherheitsgesetz	SatDSIG	Gesetz zum Schutz vor Gefährdung der Sicherheit der Bundesrepublik Deutschland durch das Verbreiten von hochwertigen Erdfernerkundungsdaten	Management	2016-05-25
Saturation		(1) In general, the point at which a further increase in input yields no further increase in output. (2) (optics) The presence of the maximum number of wavelengths over the spectral region contributing to a particular color. Contrast with hue (tint) and brightness (intensity), the other two components of a color. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-23
Saved Command Stack Files	SSF		Technical - Operations	2009-03-05
S-Band		A radio frequency band extending from approximately 2.0 to 4.0 gigahertz. It is part of the microwave portion of the electromagnetic spectrum. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Space-Ground Communications	2009-02-23
Scale-invariant feature transform (SIFT)	SIFT	an algorithm in computer vision to detect and describe local features in images. Lowe, David G. (1999). "Object recognition from local scale-invariant features". Proceedings of the International Conference on Computer Vision. pp. 1150–1157. doi:10.1109/ICCV.1999.790410	Technical - Data Management	2016-04-25
Scanning Electron Microscope	SEM		Technical - General	2010-05-26
Science Lead	SciLead		Technical - Operations	2021-06-08
Science/User Data		generic term for the data of the EnMAP hyper-spectral imager and the related auxiliary data, being gathered on-board and transmitted to ground, for fulfilling data requests of scientific and/or commercial users	Technical - General	2009-02-23
SCOS2000	S2K		Technical - Operations	2010-02-23
Screening		Screening refers to the checking and evaluation, against reference values, of dark current values, internal control values, HK (house keeping) data and instrument status information by the Level 0 Processor.	Technical - Data Management	2009-02-23
Sea Wide Field Sensor	SeaWIFS		Organizations	2010-05-26
Secondary Bootstrap Loader	BSL2		Technical - Bus	2009-02-16
Secure File Transfer Protocol	SFTP		Technical - General	2010-04-22
seed		[used as comment to requirements] ... means that for the respective requirement no origin (in the sense of tracing) exists within higher level specifications, but it is considered necessary to generate such starting point with the respective requirement, in order to allow proper requirements tracing in further / lower-level specifications	Engineering	2009-02-23
SElf Pointing Processor Library	SEPPL		Technical - Operations	2009-02-23
Sequence of Events	SoE		Technical - Operations	2009-02-23
Serial Number	SN		Technical - General	2009-01-27
Serial Peripheral Interface Bus	SPIBus		Technical - Bus	2013-03-21
Service Request Bit	SRB		Technical - General	2009-02-23
Service Switch Board	SSB		Technical - Space-Ground Communications	2009-01-27
Severity-of-Consequence	SoC		Management	2009-02-23
Short and Medium-term Priority Environmental Action Programme	SMAP		Organizations	2009-01-27
Short Wavelength Infra-Red	SWIR		Technical - General	2009-01-27
Shutter Calibration Mechanism	SCM	A mechanism inside the EnMAP instrument implementing the functions dark calibration, radiometric and spectral calibration with reference light sources and the observation (normally earth). For the mission critical function observation a fail-safe design is provided.	Technical - Instrument	2009-02-23
Shuttle Radar Topography Mission	SRTM		Organizations	2009-01-27
Signal Sequence Table	SST		Technical - Space-Ground Communications	2009-02-23
Signal-to-Noise Ratio	SNR	The signal S is defined as the number of signal electrons generated in detector corresponding to an At-Sensor Radiance level corresponding to a 30% reflectance target at 500 m ASL, 30° sun zenith angle, 21 km visibility. The total noise (Ntotal) consists of instrument noise (Nsensor) and shot noise Nshot = sqrt(S) assumed independent from each other, i.e. Ntotal = sqrt((Nsensor) <sup>2</sup> + S). The SNR is calculated as: SNR = S/Ntotal.	Technical - General	2009-02-24
Similarity	S	Verification Method	Engineering	2009-02-23

Term	Abbreviation	Definition	Category	Modified at
Simple Mail Transfer Protocol	SMTP		Technical - General	2016-04-27
Simple Network Time Protocol	SNTP		Technical - General	2016-04-27
Simple Object Access Protocol	SOAP	SOAP is a protocol specification for exchanging structured information in the implementation of Web Services in computer networks. It relies on eXtensible Markup Language (XML) as its message format, and usually relies on other Application Layer protocols (most notably Remote Procedure Call (RPC) and HTTP) for message negotiation and transmission. SOAP can form the foundation layer of a web services protocol stack, providing a basic messaging framework upon which web services can be built.	Technical - Data Management	2010-02-26
Simplified General Perturbations Satellite Orbit Model 4	SGP4	SGP4 (Simplified General Perturbations Satellite Orbit Model 4) is a NASA/NORAD algorithm of calculating near earth satellites (i.e. calculating their orbital state vectors relative to the Earth Centered Inertial coordinate system)	Technical - General	2010-05-21
Single Event Effect	SEE		Technical - General	2009-01-27
Single Event Gate Rupture	SEGR		Technical - General	2009-01-27
Single Event Induced Burn-out	SEB		Technical - Bus	2009-01-27
Single Event Latch-Up	SEL		Technical - General	2009-01-27
Single Event Transients	SET		Technical - General	2009-01-27
Single Event Upset	SEU		Technical - General	2009-01-27
Single independent source packets	SPID		Technical - Data Management	2010-02-18
Single Point Failure	SPF		Technical - General	2009-01-27
Single Point Failure List	SPL		Technical - General	2010-05-26
Single-Layer Insulation	SLI		Technical - Instrument	2012-12-11
Smile		Smile is the change of dispersion angle with the field position. It results in the bending of the spectral lines (in the hyper spectral image). Source: J. Fisher, M. Baumbach, J. Bowles, J. Grossmann, and J. Antoniadis, 1998. Comparison of low-cost hyperspectral sensors. In: Imaging Spectrometry IV, M. Descour and S. Shen, eds., Proc. SPIE 3438, 23-30.	Technical - Instrument	2009-02-23
Software	S/W		Technical - General	2009-02-23
Software Configuration Item	SCI		Engineering	2008-08-19
Software Product Assurance	SW-PA		Management	2009-01-27
Software Requirement Document	SRD		Engineering	2009-01-27
Software User Manual	SUM		Management	2009-01-27
Solar Cycle		Eleven-year cycle of sunspots and solar flares that affects other solar indexes such as the solar output of ultraviolet radiation and the solar wind. The Earth's magnetic field, temperature, and ozone levels are affected by this cycle. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - General	2009-02-23
Solar Generator	SG		Technical - Bus	2009-01-27
Solar Maximum		The point in the 11-year solar cycle at which sunspot activity is highest. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - General	2009-02-23
Solar Minimum		The point in the 11-year solar cycle at which sunspot activity is lowest. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - General	2009-02-23
Solid-State Mass Memory	SSMM		Technical - Bus	2009-02-23
Sounder		A special kind of radiometer that measures changes in atmospheric temperature with height, as well as the content of various chemical species in the atmosphere at various levels. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - General	2009-02-23
South Atlantic Anomaly	SAA		Technical - General	2009-01-27
Space Components Coordination	SCC		Technical - Bus	2009-01-27
Space Link Extension	SLE		Technical - Space-Ground Communications	2009-01-27
Space Segment	SS		Management	2010-06-08
Space Station Programme	SSP		Technical - Operations	2009-01-27
Space Transportation System/Vehicle Organization	STSVO		Organizations	2009-01-27
Space Vehicle	SV		Technical - Bus	2009-01-27
Spacecraft	S/C		Technical - Bus	2009-02-23
Spacecraft Control and Operation System	SCOS-2000	(by ESA)	Technical - Operations	2010-02-02

Term	Abbreviation	Definition	Category	Modified at
Spatial Resolution		The ability of an imaging system to distinguish closely spaced objects in the subject area. Can be expressed as the spacing, in line-pairs per unit distance, of the most closely spaced lines that can be distinguished. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-02-23
Spectral Analysis of Dryland Degradation	SAND		Organizations	2009-01-27
Spectral Angle Mapper	SAM		Applications	2009-02-24
Spectral Band = Spectral Channel		Wavelength region of one Spectral Response Function (interval) within the Spectral Coverage of an instrument.	Technical - Instrument	2009-01-27
Spectral Band Centre Wavelength		Wavelength of the centroid of the Spectral Response Function.	Technical - Instrument	2009-02-23
Spectral Calibration Accuracy		Knowledge of absolute position of Spectral Band Centre Wavelength and knowledge of Spectral Resolution of each Spectral Band.	Technical - Calibration/Validation	2009-01-27
Spectral channel		Spectral channel ? the same as spectral row	Technical - Instrument	2010-04-08
Spectral Channel File	SCF	part of HSI raw data	Technical - Instrument	2020-05-15
Spectral Coverage		Wavelength range between the lower wavelength boundary (= the Spectral Band Centre Wavelength of the lower spectral band minus half of the Spectral Resolution) and the upper wavelength boundary (= the Spectral Band Centre Wavelength of the upper spectral band plus half of the Spectral Resolution) of a spectrometer or a series of adjacent spectrometers.	Technical - Instrument	2009-01-27
Spectral Feature Fitting	SFF		Applications	2009-01-27
Spectral Imaging Mission for Science and Application	SIMSA		Organizations	2009-01-27
Spectral Mixture Analysis	SMA		Applications	2009-01-27
Spectral Resolution		Bandwidth corresponding to the Full-Width-at-Half-Maximum (FWHM) of the Spectral Response Function.	Technical - Instrument	2009-01-27
Spectral Response		The response of a material as a function of wavelength to incident electromagnetic energy, particularly in terms of the measurable energy reflected from and emitted by the material. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Instrument	2009-01-27
Spectral Response Function		The spectral response $R(\lambda)$ relates the radiometrically calibrated, spectrally integrated radiance $L(i)$ measured in a spectral band $(i)$ with the spectral radiance $L(\lambda)$ emanating from a spatially homogeneous scene. The spectral response is normalized such that its spectral integral yields 1. The spectral response $R(\lambda)$ is defined by: $L(i) = \int R(\lambda)L(\lambda)d\lambda$	Technical - Instrument	2009-01-27
Spectral row		Spectral row or spectral channel is a row of pixels on the detector array that register light of the same wavelength.	Technical - Instrument	2010-04-08
Spectral Sampling Distance		Distance in wavelength between the Spectral Band Centre Wavelengths of neighbouring Spectral Bands.	Technical - Instrument	2009-01-27
Spectral Signature		The quantitative measurement of the properties of an object at one or several wavelength intervals. Spectral signature analysis techniques use the variation in the spectral reflectance or emittance of objects as a method of identifying the objects, e.g. mineral detection. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Applications	2009-02-23
Spectral Smile		Change of the dispersion angle for a fixed wavelength with the field position resulting in bending of the image of the straight slit along the spatial axis. The spatial axis is defined by the lines of detector pixels that are oriented parallel to the image of the slit.	Technical - Instrument	2009-01-27
Spectral Stability		Change of Spectral Band Centre Wavelength position and Spectral Resolution with time.	Technical - Instrument	2009-01-27
Spectrometer Shift		Constant deviation of the Spectral Coverage due to alignment errors or temporal drifts.	Technical - Instrument	2009-01-27
Standard	STD		Management	2009-01-27
Standard Deviation	STDV		Technical - Data Management	2009-02-16
Star Tracking Sensor Assembly	STA		Technical - Instrument	2012-12-11
StarTracker Sensor	STS		Technical - Bus	2010-05-26
State of Charge	SoC		Technical - Bus	2009-01-27
Statement of Work	SOW		Management	2009-01-27
Static Random Access Memory	SRAM		Technical - Bus	2009-01-27
Status Word	SW		Technical - Data Management	2009-01-27
Storage And Archiving Network	SAN		Technical - Data Management	2009-02-23
Structural Model	SM		Technical - Bus	2009-01-27

Term	Abbreviation	Definition	Category	Modified at
Structural thermal development model	STDMM	STDMM is a model of IOU that has the same structural and mass properties as the IOU PFM. STDMM is used for testing structural properties and thermo-control system of IOU.	Technical - Instrument	2010-04-08
Structured Analysis	SA		Technical - Bus	2009-01-27
Subaddress	SA		Technical - General	2009-02-23
Subsystem		A Subsystem is a set of interdependent parts constituted to achieve a given objective by performing a specified function, but which does not, on its own, satisfy the customer's need. The interaction of all subsystems provides the customer's (here ground segment's) functionality. A subsystem consists of "facilities" and at least one "operations organization".	Engineering	2009-01-27
Subsystem Development Plan	SSDP		Management	2009-01-27
Sun diffuser hatch	SDH	Sun diffuser hatch is a moveable part of FAD that consists of reflective diffuser, frame, vanes, rotation axis etc. SDH has two main positions: stored and working. In working position the diffuser is illuminated by sun for solar calibration	Technical - Instrument	2010-04-08
Sun Port Shutter	SPS		Technical - Instrument	2009-02-23
Sun Presence Sensor	SPS		Technical - Bus	2009-02-23
Sunphotometer		A device that measures the properties of light emanating from the sun. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - General	2009-02-24
sun-synchronous		Describes the orbit of a satellite that provides consistent lighting of the Earth-scan view. The satellite passes the equator and each latitude at the same time each day. For example, a satellite's sun-synchronous orbit might cross the equator twelve times a day, each time at 3:00 p.m. local time. The orbital plane of a sun-synchronous orbit must also precess (rotate) approximately one degree each day, eastward, to keep pace with the Earth's revolution around the sun. ( <a href="http://earthobservatory.nasa.gov/Library/glossary.php3">http://earthobservatory.nasa.gov/Library/glossary.php3</a> )	Technical - General	2009-02-24
Sun-Synchronous Orbit	SSO		Technical - General	2009-01-27
Surface Processes and Ecosystem Changes	SPECTRA		Organizations	2009-01-27
Swath		A strip, belt, or long narrow extent of anything. Specifically refers to the ground track, or trace, followed by a satellite. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-01-27
Swath Acquisition Viewer	SaVoir	The Swath Acquisition Viewer SaVoir developed by Taitus Software / Italy Swath Acquisition Viewer is a Windows stand-alone application for analyzing potential remote sensing opportunities from earth observation satellites. By combining each satellite's orbit, sensor field of view geometry and the shape and location of a user-defined area of interest, SaVoir can determine the exact times when a satellite would be capable of observing the specified area of interest.	Technical - Operations	2010-05-24
Swedish Space Corporation	SSC	The Swedish Space Corporation (SSC) is a comprehensive space company covering the entire field, from the definition of innovative business concepts and space projects to the development, tests and operation of the systems. (ref: <a href="http://www.ssc.se">www.ssc.se</a> )	Organizations	2010-05-21
Swing Back Time		Time required changing the viewing position of the centre of the image.	Technical - Operations	2009-01-27
SWIR Focal Plane Assembly	SWIR FPA	A camera for the EnMAP instrument based on a MCT sensor for the wavelength range 900nm to 2450nm. This camera exists in a cold standby redundancy configuration. Detector cooling down to 150K nominal operational temperature by means of a pulse tube cooler driven by a flexure bearing compressor.	Technical - Instrument	2010-02-02
SWIR Switch Mirror	SSM	A mechanism switching the light path by a moving mirror from the nominal SWIR unit to the redundant SWIR unit. The switching to the redundant unit can be performed only once.	Technical - Instrument	2009-08-19
Synthetic Aperture Radar	SAR		Technical - General	2009-02-23
System Change Request	SCR	Notification of an identified shortcoming or weakness, which might require a system change in terms of improvement (e.g. performance, cost savings).	Engineering	2009-02-23
System Check-Out Equipment	SCOE		Technical - Bus	2009-01-27
System Engineering	SE		Engineering	2009-01-27
System Engineering & Calibration	SEC		Engineering	2009-02-23
System Engineering Board	SEB		Management	2010-05-26
System Engineering Plan	SEP		Engineering	2009-01-27
System Report File	SRF		Technical - Bus	2009-02-24

Term	Abbreviation	Definition	Category	Modified at
System Requirement	SR	A Subsystem Requirement states a need or expectation to a subsystem (derived from ground segment requirements).	Engineering	2009-02-23
System Requirements Document - Ground	SRD-G		Engineering	2010-06-08
System Requirements Document - Space	SRD-S		Engineering	2009-01-27
System Requirements Review	SRR		Management	2009-01-27
System Technical Specification	STS		Engineering	2010-06-08
System Validation Test	SVT		Engineering	2009-01-27
Systeme Pour l'Observation de la Terre	SPOT	before: Systeme Probatoire d'Observation de la Terre	Organizations	2009-01-27
Target Revisit Time		Time span between two potential data acquisitions of the same portion of the Earth surface.	Technical - Operations	2009-02-16
Technical Acceptance Review	TAR		Management	2009-02-23
Technical Note	TN		Management	2009-01-27
Technical Verification and Validation Review	TVVR		Engineering	2009-01-27
Teldix GmbH Heidelberg	Teldix		Management	2009-02-23
Telecommand	TC		Technical - Space-Ground Communications	2009-01-27
TeleCommand Acknowledge History	TCAH		Technical - Space-Ground Communications	2017-08-28
Telecommand Identifier	TID		Technical - Space-Ground Communications	2009-02-23
TeleCommand Log	TCLOG		Technical - Space-Ground Communications	2020-10-21
Telecommand Spacecraft Configuration	TCSpacon		Technical - Space-Ground Communications	2020-10-21
Telemetry	TLM		Technical - Space-Ground Communications	2015-11-30
Telemetry	TM		Technical - Space-Ground Communications	2009-01-27
Telemetry & (Tele-)Command	TMC		Technical - Space-Ground Communications	2010-05-26
Telemetry / Telecommand Packet Header	TMTCPH		Technical - Space-Ground Communications	2009-02-23
Telemetry and Commanding System	TMS		Technical - Operations	2009-03-05
Telemetry Packet History	TMPH		Technical - Space-Ground Communications	2020-06-24
Telemetry Spacecraft Configuration	TMSpacon		Technical - Space-Ground Communications	2020-10-21
Telemetry Spacecraft Controller	TM SPACON		Technical - Space-Ground Communications	2020-06-24
Telemetry/Telecommand	TMTC		Technical - Space-Ground Communications	2009-01-27
Temperature Controlled Quartz Oscillator	TCXO		Technical - General	2009-01-27
Temporal Resolution		The revisit time of a satellite over a given geographic location. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-01-27
terabyte	TB	Standard SI: 1 Billion Bytes	Technical - General	2010-05-21
Terrasar Exploitation and Service Infrastructure	TESI		Organizations	2009-02-23
TerraSAR-X	TS-X		Organizations	2009-01-27
Terrasar-x Monitoring & Control System	T-MCS		Technical - Operations	2009-01-27
Test	T	Verification Method	Technical - General	2010-02-02
Test case	TC	A Test Case is a test to be performed in a predefined assembly with predefined test data and formally documented. A Test is a formal process of exercising or putting to trial the ground segment or a subsystem by manual or automatic means to identify differences between specified, expected and actual results.	Engineering	2009-03-01
Test Data	TD	Test Data is an abstract instance of a configuration interface item or a product specification.	Engineering	2010-05-06
Test Data Version	TDV	A Test Data Version is an instance of a test data. It has been specifically identified for use in executing tests.	Engineering	2010-06-08
Test Plan Document	TPD		Engineering	2009-02-23
Test Procedure		Specification of detailed information for the execution of tests, concerning the following topics: -purpose and scope of the test, -relevant specifications, -relevant documents, -attending parties, -test-layout and equipment, -implementation.	Engineering	2010-05-31
Test Readiness Review	TRR		Management	2009-01-27
Test Report	TR	A Test Report is the formal documentation of the results of a performed test case with a specific assembly version and specific test data versions.	Engineering	2010-05-06
Test Review Board	TRB		Management	2009-01-27
Thermal	THM		Technical - Operations	2009-03-05



Term	Abbreviation	Definition	Category	Modified at
Thermal Control Subsystem	TCS		Technical - Bus	2009-02-24
Thermal Mathematical Model	TMM		Technical - Bus	2009-02-23
Thermal Reference Point	TRP		Technical - General	2013-03-21
Thermal Test Adapter	TTA		Technical - Bus	2009-01-27
Thermal vacuum test by OHB	TVAC		Technical - Bus	2021-06-14
Thin Small-Outline Packages	TSOP		Technical - Bus	2009-01-27
Thin-film transistors	TFT		Technical - General	2009-03-05
Third Party Mission	TPM		Management	2010-06-08
Three-Mirror Anastigmat	TMA		Technical - Instrument	2009-01-27
Time-Tagged Telecommand	TTTC		Technical - Space-Ground Communications	2009-01-27
Time-tagged Telecommand List Element	TTLE		Technical - Space-Ground Communications	2009-02-23
TMTC Link Subsystem (S-band)	TLS		Technical - Space-Ground Communications	2010-05-26
To Be Confirmed	TBC		Management	2009-01-27
To Be Defined	TBD		Management	2009-01-27
To Be Written	TBW		Management	2010-05-14
TOPE		SCOS 2000 interface realized in TCL/TK	Technical - Operations	2017-08-28
Top-of-Atmosphere	TOA		Technical - General	2009-01-27
Total Ionizing Dose	TID		Technical - General	2010-05-26
Total Mass Loss	TML		Technical - General	2009-02-16
Traceability		The attempt to trace radiometric units and calibrations back to a common radiance source at the United States National Institute of Standards and Technology (NIST) in order to compare measurements taken by different methodologies in absolute terms. The stability and precision requirements for remote sensing from space are often higher than that of (1) the transfer calibration from NIST to transfer lamps, (2) the calibrated radiometers for vicarious measurements and (3) the calibrated on-board sources. For this reason, some sensors reference their calibration to presumably more quantifiable and more stable solar irradiance rather than to NIST-traceable pre-launch calibration of on-board calibrators. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Calibration/Validation	2009-02-23
Tracking	TRK		Technical - Space-Ground Communications	2015-11-30
Tracking, Telemetry & Command	TT&C		Technical - Space-Ground Communications	2009-01-27
Transfer Frame	TF		Technical - Space-Ground Communications	2009-02-16
Transmittance		The ratio of the energy per unit time per unit area (radiant power density) transmitted through an object to the energy per unit time per unit area incident on the object. In general, transmittance is a function of the incident angle of the energy, viewing angle of the sensor, spectral wavelength and bandwidth, and the nature of the object. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-01-27
Transmitter	TX		Technical - Space-Ground Communications	2015-11-30
Transmitter	Tx		Technical - Space-Ground Communications	2009-01-27
Transmitter Up-Stage 1	TUS1		Technical - Space-Ground Communications	2009-02-23
Transmitter Up-Stage 2	TUS2		Technical - Space-Ground Communications	2009-02-23
Transmitter Up-Stage 3	TUS3		Technical - Space-Ground Communications	2009-02-23
Transport Layer Security	TLS		Technical - General	2016-04-27
True Of Date	TOD	True of Date (TOD), The most accurate system of celestial coordinates used to define a body's position relative to the center of the Earth. This coordinate system incorporates Earth's rotation, UT corrections, precession, nutation, and polar wandering.	Technical - General	2010-06-08
Two-Line-Elements	TLE		Technical - Operations	2010-05-26
UCS Transformation Format - 8-bit	UTF-8		Technical - General	2016-04-27
Ultraviolet	UV		Technical - Instrument	2008-08-19
Umweltbundesamt - Federal Environmental Agency	UBA		Organizations	2009-01-27
UN Convention to Combat Desertification	UNCCD		Organizations	2009-01-27
Unified Modeling Language	UML		Technical - General	2009-01-27
Uniform Resource Locator	URL		Technical - General	2009-01-27

Term	Abbreviation	Definition	Category	Modified at
Uninterruptible Power Supply	UPS		Technical - General	2010-05-21
Unit Controller Module	UCM		Technical - Bus	2009-01-27
United Nations Economic Commission for Europe	UNECE		Organizations	2009-01-27
United Nations Educational, Scientific and Cultural Organization	UNESCO		Organizations	2009-01-27
United Nations Environment Programme	UNEP		Organizations	2009-01-27
United Nations Framework Convention on Climate Change	UNFCCC		Organizations	2009-01-27
Universal Asynchronous Receiver Transmitter	UART		Technical - Space-Ground Communications	2009-01-27
Universal Coded Character Set	UCS		Technical - General	2016-04-27
Universal Polar Stereographic	UPS		Technical - General	2009-02-16
Universal Sensor Model	USM		Technical - General	2010-05-06
Universal Time Coordinated	UTC		Technical - General	2009-01-27
Universal Transverse Mercator	UTM		Technical - General	2009-02-24
Unresolved risk	UR	Risk for which risk reduction attempts are not feasible, cannot be verified, or have proved unsuccessful: a risk remaining unacceptable.	Management	2009-02-24
User Information Services Interface Framework	UIF	The DIMS service UIF provides the interface to local or external User Information Systems (UIS). It maps product upload as well as user orders.	Technical - Data Management	2010-03-04
User Requirements Document	URD		Engineering	2009-01-27
Vacuum Temperature Cycling	VTC		Technical - General	2009-02-23
Validation	Val	The process of determining the spatial and temporal error fields of a given remotely sensed data product through a comparison with values derived from sampling at the surface, examination of the internal consistency of the data product, and/or comparison with modelled surrogates. The robustness of the validation program is primarily a function of the quality, sampling, and coverage of the data used for comparison. In some cases where the physics is very simple and predictable (all sources of error easily determined and predicted), validation at a few locations and times may be sufficient to provide good estimates of errors in all places and times. In other cases where the temporal and spatial variability of the products, input fields, and algorithm error budgets, are poorly known, the breadth of the validation process must be considerably larger and ongoing. In a broader context, the term validation is also used as confirmation, through provision of objective evidence that the requirements for a specific intended use or application have been fulfilled (see ECSS P-001B, ISO 9000:2000).	Technical - Calibration/Validation	2010-05-28
Validation.		Confirmation, through provision of objective evidence that the requirements for a specific intended use or application have been fulfilled. (Source ECSS P-001B, ISO 9000:2000)	Engineering	2010-02-02
Value-Adding	VA		Applications	2008-08-19
Variable Packet Processor	VPP		Technical - Data Management	2010-02-02
Verification		Confirmation, through provision of objective evidence that the requirements have been fulfilled. (Source ECSS P-001B, ISO 9000:2000)	Engineering	2009-02-16
Verification Control Board	VCB		Engineering	2009-01-27
Verification Control Document	VCD		Engineering	2009-01-27
Verification Matrix	VM		Engineering	2009-01-27
Verification Requirement Document	VRD		Engineering	2009-01-27
Verification Test Review	VTR		Engineering	2009-02-23
Verification Tracking Log	VTL		Engineering	2009-01-27
Vertical Hoisting Device	VHD		Technical - Bus	2009-01-27
Very High Resolution	VHR		Technical - General	2009-01-27
Vibration Test Adapter	VTA		Technical - Bus	2009-01-27
Vicarious Calibration		Vicarious calibration refers to techniques that make use of natural or artificial sites on the surface of the Earth for the post-launch calibration of sensors.	Technical - Calibration/Validation	2009-02-23
Video Management Unit Command Protocol	VCP		Technical - General	2010-05-06
Virtual Channel File	VCF	part of HSI raw data	Technical - Instrument	2010-05-21
Visible / Near Infra-Red	VNIR		Technical - General	2009-08-11
Visual Source Safe	VSS		Technical - General	2009-05-15

Term	Abbreviation	Definition	Category	Modified at
VNIR Focal Plane Assembly	VNIR FPA	A camera for the EnMAP instrument based on a silicon CMOS image sensor (CIS) for the wavelength range 420nm - 1000nm. Thermal stabilization by a peltier cooler.	Technical - Instrument	2010-02-02
Voice Communication System	VoCS		Technical - Operations	2010-02-02
Waiver		Permission to use or release a product that does not conform to specified requirements.	Management	2009-05-15
Warning Time Analysis	WTA		Technical - Space-Ground Communications	2009-01-27
Wavelength		Wavelength = 1/frequency. In general, the mean distance between maximums (or minimums) of a roughly periodic pattern. Specifically, the shortest distance between particles moving in the same phase of oscillation in a wave disturbance. Optical and infrared wavelengths are measured in nanometers (10 <sup>9</sup> , abbr. nm), micrometers (10 <sup>-6</sup> ), and angstroms (10 <sup>-10</sup> ). ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-01-27
Web Coverage Service	WCS	The Web Coverage Service (WCS) is an Open Geospatial Consortium interface standard. It supports platform-independent calls for geographical coverages across the web. The coverages are objects (or images) in a geographical area.	Technical - Data Management	2010-05-24
Web Map Service	WMS	Web Map Service (WMS) is a protocol standard for serving georeferenced map images. The images are generated by a map server.	Technical - Data Management	2010-05-24
Web Services Description Language	WSDL	XML-based language that provides a model for describing Web services	Technical - Data Management	2010-02-26
Weilheim Service Provider Cortex	WSPC		Technical - Space-Ground Communications	2020-06-24
Weilheim-Bodenstation	WHM		Technical - Operations	2009-02-23
with respect to	w.r.t.		Management	2009-01-27
Work Breakdown Structure	WBS		Management	2009-01-27
Work Package	WP		Management	2009-01-27
Work Package Description	WPD		Management	2009-01-27
World Climate Research Program	WCRP		Organizations	2009-01-27
World Geodetic System	WGS		Technical - General	2009-02-23
World Geodetic System 1984	WGS84	The World Geodetic System is a standard for use in cartography, geodesy, and navigation. It comprises a standard coordinate frame for the Earth, a standard spheroidal reference surface (the datum or reference ellipsoid) for raw altitude data, and a gravitational equipotential surface (the geoid) that defines the nominal sea level. The latest version is WGS84.	Technical - General	2010-05-20
World Meteorological Organization	WMO		Organizations	2009-01-27
World Wide Web Consortium	W3C		Organizations	2016-04-27
Worst Case Analysis	WCA		Engineering	2008-07-25
X-Band		A radio frequency band extending from approximately 8.0 to 12.5 gigahertz. It is part of the microwave portion of the electromagnetic spectrum and is used for some communications satellites and by X-band radar primarily for science and technology applications. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - Space-Ground Communications	2009-01-27
X-band Downlink Assembly	XBDA		Technical - Space-Ground Communications	2009-02-23
X-band Downlink Unit	XBDU		Technical - Space-Ground Communications	2009-01-27
X-band Modulator	XMOD		Technical - Space-Ground Communications	2009-01-27
XML Telemetric & Command Exchange	XTCE		Technical - Data Management	2010-02-25
Yaw		The rotation of a spacecraft about its vertical axis so as to cause the spacecraft's longitudinal axis to deviate left or right from the direction of flight. The yaw axis is referred to as the z-axis. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-01-27
Zenith		The point in the celestial sphere that is exactly overhead. Contrast with nadir. ( <a href="http://landsat.gsfc.nasa.gov/references/glossary.html">http://landsat.gsfc.nasa.gov/references/glossary.html</a> )	Technical - General	2009-01-27
Zentrum für angewandte Raumfahrttechnik	ZARM		Organizations	2009-02-23