

| 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: http://www.desurvey.net/ | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - General | 2009-02-16 |
| Absorption Band | | A range of wavelengths (or frequencies) of electromagnetic radiation that is assimilated by a substance. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 acknowledged 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 | AMO | | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - General | 2009-02-16 |
| Algorithm Theoretical Basis Document | ATBD | | Technical - Data Management | 2009-01-27 |
| also known as | aka | | Management | 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 |
| 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. (http://envisat.esa.int/glossary/) | 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 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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-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 |

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|---|--------------|---|---|-------------|
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | 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. (http://envisat.esa.int/glossary/) | 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 |
| Authorization to Proceed | ATP | | Management | 2009-02-16 |
| Automatic File Distributor | AFD | | Technical - Operations | 2009-03-05 |
| Autonome Telemetry | | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 |
| 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 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | Technical - Bus | 2009-01-27 |
| Bus Controller | BC | | Technical - Bus | 2009-02-16 |
| Bus Harness Identifier | HAR | | Technical - Bus | 2009-01-27 |

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|--|--------------|--|---|-------------|
| 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 |
| 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: http://www.centos.org | 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 |
| 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. (http://envisat.esa.int/glossary/) | 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 |
| 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 |

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|---|--------------|---|---|-------------|
| 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 |
| 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 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - Data Management | 2009-02-16 |
| Data Decompression | | A reversal of the process of data compression. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - Data Management | 2010-06-08 |
| Data Downlink Transmitter | DDTx | | Technical - Space-Ground Communications | 2009-02-16 |
| Data Frame | | A data frame consists of a readout of all pixels of a detector | Technical - Data Management | 2009-01-27 |

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|--|--------------|--|---|-------------|
| 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 Storage and Handling Assembly | DSHA | | Technical - Data Management | 2009-02-16 |
| 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 |
| 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | 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 |
| 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 |

| Term | Abbreviation | Definition | Category | Modified at |
|---|--------------|--|---|-------------|
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 |
| 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 |
| 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 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - General | 2009-02-23 |
| Electrostatic Discharge | ESD | | Technical - General | 2009-02-23 |
| 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 |

| Term | Abbreviation | Definition | Category | Modified at |
|---|--------------|--|---|-------------|
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 |
| 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 Decommulation | 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: http://fedoraproject.org | Technical - General | 2010-05-26 |
| Field-of-View | FOV | The solid angle through which an instrument is sensitive to radiation. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 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 |

| Term | Abbreviation | Definition | Category | Modified at |
|--|--------------|--|---|-------------|
| 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 |
| 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 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 structure 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 |
| Gallium-Arsenide | GaAs | | Technical - General | 2009-02-23 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - General | 2009-02-23 |
| Geographic Information System | GIS | | Technical - Data Management | 2008-08-19 |
| 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 | GAF AG | | 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 |

| Term | Abbreviation | Definition | Category | Modified at |
|---|--------------|--|---|-------------|
| 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 |
| 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 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 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 |
| 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 |

| Term | Abbreviation | Definition | Category | Modified at |
|--|--------------|---|------------------------------------|-------------|
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - Instrument | 2009-02-23 |
| Institut f?r Methodik der Fernerkundung | IMF | | Organizations | 2008-08-19 |
| Institute of Electrical and Electronics | IEEE | | Organizations | 2009-02-23 |
| Instituto Nacional de T?cnica Aeroespacia | 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 |

| Term | Abbreviation | Definition | Category | Modified at |
|---|--------------|--|---|-------------|
| 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 |
| Integral Non-Linearity | INL | | Technical - Instrument | 2009-02-23 |
| Integrated Global Observing Strategy | IGOS | | Organizations | 2008-08-19 |
| 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 |
| 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. | Engineering | 2009-03-05 |
| Interface Control Document | ICD | | Engineering | 2009-02-23 |
| 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 |
| Intravehicular 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - Instrument | 2009-02-23 |
| John F. Kennedy Space Center | KSC | | Organizations | 2009-02-23 |
| 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 |

| Term | Abbreviation | Definition | Category | Modified at |
|---|--------------|--|---|-------------|
| Kayser-Threde | KT | | Organizations | 2009-02-23 |
| Kb | | The abbreviation Kb represents 10^3 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^{10} 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 |
| 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. (http://envisat.esa.int/glossary/) | 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 |
| 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 | | Technical - Space-Ground Communications | 2009-02-23 |
| 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 |
| 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 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 |

| Term | Abbreviation | Definition | Category | Modified at |
|---|--------------|---|-----------------------------|-------------|
| 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 |
| 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 ⁶ 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | Technical - Data Management | 2009-01-27 |
| Meteorite & Earth Orbital Debris | MEOD | | Technical - General | 2009-02-23 |
| Mib | | The abbreviation Mib represents 2 ²⁰ 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 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 |
| 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 |

| Term | Abbreviation | Definition | Category | Modified at |
|---|--------------|---|---|-------------|
| 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 | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 http://www.nagios.org . | 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 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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-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 |

| Term | Abbreviation | Definition | Category | Modified at |
|---|--------------|--|---|-------------|
| 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 |
| On-Board Calibration Assembly | | 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 | 2010-05-06 |
| On-Board Data Handling | OBDH | | 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 Time | OBT | | Technical - Bus | 2008-08-19 |
| 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 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 | OVRR | | Management | 2009-02-23 |
| 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - Bus | 2009-02-23 |
| Orbital Period | | The interval in time between successive passages (orbits) of a satellite through a reference plane. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 |
| 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | Engineering | 2009-02-16 |
| 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 |

| Term | Abbreviation | Definition | Category | Modified at |
|---|--------------|--|------------------------------------|-------------|
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 | PRJ | | Technical - Instrument | 2009-02-23 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - General | 2009-02-23 |
| Pixel | | Picture element = Ground area corresponding to a single element of a digital image data set. (http://earthobservatory.nasa.gov/Library/glossary.php3) | 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 |
| 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 Flux Density | PFD | | Technical - General | 2009-02-23 |
| Power Supply Electronics | PSE | | Technical - General | 2009-02-23 |
| Power Supply RFE | PSR | | Technical - General | 2009-02-23 |
| Preferred Parts List | PPL | | Management | 2009-02-23 |
| Preliminary Design Review | PDR | | Management | 2009-02-23 |
| Preliminary Requirements Review | PRR | | Management | 2009-02-23 |
| 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 |
| Product Assurance | PA | | Management | 2009-02-23 |
| Product Assurance & Safety | PA/S | | Management | 2009-02-23 |
| 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 |
| 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 |
| Quantization Level | | The number of numerical values used to represent a continuous quantity. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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, Tangential, 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - Instrument | 2009-02-23 |
| 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 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 |
| Receiving Station Interface | RSI | | Technical - Space-Ground Communications | 2009-02-23 |

| Term | Abbreviation | Definition | Category | Modified at |
|---|--------------|--|---|-------------|
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - Data Management | 2009-02-23 |
| Redundant Array of Independent Discs | RAID | | Technical - Data Management | 2009-02-23 |
| 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 - General | 2009-02-23 |
| 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 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | Technical - Instrument | 2009-02-23 |
| 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 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 | ROSAVIAKOS | | 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 Protective | 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 Management System | SMS | | Technical - Bus | 2009-02-23 |
| Satellite Management Unit | SMU | | Technical - Bus | 2009-01-27 |
| Satellite Support Team | SST | | Technical - Operations | 2009-03-05 |
| Satellite Test and Operations Language | STOL | | Technical - General | 2009-02-16 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - General | 2009-02-23 |
| Saved Command Stack Files | SSF | | Technical - Operations | 2009-03-05 |

| Term | Abbreviation | Definition | Category | Modified at |
|---|--------------|--|---|-------------|
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - Space-Ground Communications | 2009-02-23 |
| Scanning Electron Microscope | SEM | | Technical - General | 2010-05-26 |
| 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 |
| Service Request Bit | SRB | | Technical - General | 2009-02-23 |
| 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) ² + S). The SNR is calculated as: SNR = S/Ntotal. | Technical - General | 2009-02-24 |
| Similarity | S | Verification Method | Engineering | 2009-02-23 |
| 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 |
| SLE Switch Board | SSB | | Technical - Space-Ground Communications | 2009-01-27 |
| 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | Technical - General | 2009-02-23 |
| Solar Minimum | | The point in the 11-year solar cycle at which sunspot activity is lowest. (http://earthobservatory.nasa.gov/Library/glossary.php3) | 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | Technical - General | 2009-02-23 |
| Source Channel File | SCF | part of HSI raw data | Technical - Instrument | 2010-05-21 |
| 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 |

| Term | Abbreviation | Definition | Category | Modified at |
|--|--------------|--|------------------------------------|-------------|
| 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 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 |
| 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 |
| Structural thermal development model | STDM | STDM is a model of IOU that has the same structural and mass properties as the IOU PFM. STDM 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | 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. (http://earthobservatory.nasa.gov/Library/glossary.php3) | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - General | 2009-01-27 |

| Term | Abbreviation | Definition | Category | Modified at |
|--|--------------|--|---|-------------|
| 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: www.ssc.se) | 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 |
| 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 |
| Système 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 Identifier | TID | | Technical - Space-Ground Communications | 2009-02-23 |
| Telemetry | TM | | Technical - Space-Ground Communications | 2009-01-27 |
| Telemetry & (Tele-)Command | TMC | | Technical - Space-Ground Communications | 2010-05-26 |
| Telemetry / Telecommand Packet Header | TMTC PH | | Technical - Space-Ground Communications | 2009-02-23 |
| Telemetry and Commanding System | TMS | | Technical - Operations | 2009-03-05 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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 Test Adapter | TTA | | Technical - Bus | 2009-01-27 |
| 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 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - Calibration/Validation | 2009-02-23 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - General | 2009-01-27 |
| 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 |
| 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 |
| 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 |
| 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 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 |

| Term | Abbreviation | Definition | Category | Modified at |
|---|--------------|---|---|-------------|
| 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 |
| 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 ⁻⁹ , abbr. nm), micrometers (10 ⁻⁶), and angstroms (10 ⁻¹⁰). (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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-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 |
| 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | 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. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - General | 2009-01-27 |
| Zenith | | The point in the celestial sphere that is exactly overhead. Contrast with nadir. (http://landsat.gsfc.nasa.gov/references/glossary.html) | Technical - General | 2009-01-27 |
| Zentrum für angewandte Raumfahrttechnik | ZARM | | Organizations | 2009-02-23 |