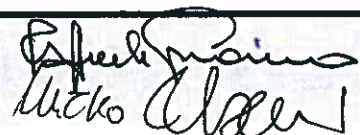
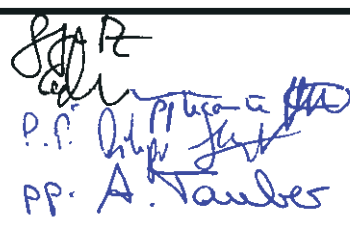


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MULTI MISSION PDGS GLOSSARY

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1 INTRODUCTION AND SCOPE

1.1 *Introduction*

This document provides a reference of terms and acronyms used in the European Space Agency Multi-Mission Payload Data Ground Segment. It has been established to harmonise the use of terms in the different projects.

1.2 *Purpose*

Purpose of this document is the production of an agreed and shared unique list of definition and abbreviations in the frame of the ESA Multi-Mission Ground Segment. This shall allow the reduction of redundancy between projects allowing the circulation of unambiguous terminology.

Once completed, all project documents including GMES Multi-Mission Ground Segment documents shall refer to this glossary for the definition of terms and abbreviations.

1.3 *Document Structure*

This document is structured in the following sections:

Section 1: *Introduction*, (this section) describing the purpose of the document and providing the necessary background information for the reader.

Section 2: *MM-PDGS TAXONOMY*, describing definition and acronyms of the Multi-Mission Payload Data Ground Segment of the European Space Agency.

1.4 *Applicable and Reference Documents*

1.4.1 APPLICABLE DOCUMENTS

TBD

1.4.2 REFERENCE DOCUMENTS

[GMES ACRONYMS]	Acronyms GMES.doc
[ACRONYMS]	Acronyms.doc

[PDGS GLOS]	GMES PDGS Glossary – Ref.: P-E146/DGIENG-28263-05 – Issue: 1.1 – Date: 20/04/2007
[PDGS ARCH]	GMES PDGS Overall Architecture – Ref.: P-E146/DGIENG-0452-06 – Issue: 2.3 – Date: 12/05/2007
[EO OPS GLOS]	Glossary for the statements of work for maintenance and operations of Earth Observations Payload Data Systems – Ref.: OSME-FCDF-EOPG-LI-04-0001 – Issue 2-0 – Date: May 2006
[CDS GLOS]	CDS Acronyms & Definitions – Ref.: GMES-GSEG-EOPG-TN-08-0016 – Issue: 1.0 – Date: 01/09/2008
[ENVISAT GLOS]	ENVISAT System Architectural Document (Annex A) – Ref.: PO-DD-CSF-GS-0048 – Issue 11.B – Date: 19/07/2005
[ECSS-P-001]	Glossary of Terms

2 MM-PDGS TAXONOMY

2.1 Glossary

Term	Description	References
Acceptance	Agreement by a customer to take delivery of an architectural element presented by a supplier, after formal testing conducted to determine whether or not this element satisfies its specification.	[ENVISAT GLOS, ECSS]
Acquisition	<i>Acquisition</i> describes the complete process from and including sensing via optional on-board recording, <i>downlink</i> and <i>reception</i> , up to the reconstruction of instrument source packets on ground. See also <i>acquisition planning</i> .	[PDGS GLOS]
Acquisition Planning	The <i>acquisition planning</i> function is the computation of a non-conflicting timeline of activities for the <i>space segments</i> and for corresponding <i>reception</i> activities of the stations. The purpose of this function is to fulfil <i>acquisition requests</i> . The planned activities comprise sensing, recording, <i>downlink</i> and <i>reception</i> . Planning has to take into account constraints like budgets, capacities and receiving station availabilities. Planning has to solve possible conflicts among <i>acquisition requests</i> and with the constraints. Part of this function is cross-mission reception conflict resolution, e.g. in case of interference between downlinks of different satellites.	[PDGS GLOS]
Acquisition Request	An <i>acquisition request</i> is a request for an <i>acquisition</i> , i.e. sensing, <i>downlink</i> and <i>reception</i> , which shall be planned and performed. <i>Acquisition requests</i> may be related to user orders. <i>Acquisition requests</i> are parameterised with acquisition parameters like time and location of the data take, sensor mode, or required downlink station.	[PDGS GLOS]
Archiving	The <i>archiving</i> function stores data products, if required for long-term. This function includes all operations to store and retrieve the data and ensure their integrity. For reliable long-term preservation archiving provides data migration and disaster recovery functionality.	[PDGS GLOS]
Arch Rush	Archived data are made available as soon as possible after (acknowledgement of) data request and at maximum within 1.5 hours. <i>Note that this category is available only for handling emergency requests.</i>	[CDS GLOS]
Arch 6h	Archived data are made available within 6 hours after (acknowledgement of) data request. <i>Note that this category is available only for handling emergency requests.</i>	[CDS GLOS]
Arch Normal	Archived data are made available within:	[CDS GLOS]

Term	Description	References
	<ul style="list-style-type: none"> • 24 hours after data request for electronic delivery • 2-7 days for media delivery 	
Auxiliary Product Generation	The <i>auxiliary product generation</i> function is the determination of parameters to be used for processing.	[PDGS GLOS]
Auxiliary Data	<p>Data required for the processing of a product which is derived from the down linked science data or from other sources. In some cases auxiliary data will be derived inside the PDS, such as engineering calibration data. This is termed Internal Auxiliary Data. In some cases it will have to be delivered from outside the PDS (for example orbit predictions from the FOS or meteorological data from ECMWF). This is termed External Auxiliary Data.</p> <p>Auxiliary data can also be sub-divided according to the frequency with which it is updated, that is how closely the time of acquisition of the auxiliary data must match that of the data acquisition. Four sub-divisions are drawn on this basis:</p> <ul style="list-style-type: none"> • On line auxiliary data, which must be updated on a very regular basis (one day) so that it is nearly contemporaneous with the acquired data and is required for the generation of a near real time product • Near line auxiliary data which must be updated on a regular basis (<1 day) because its variation has a significant impact on the processed data and is required for the generation of a near real time product • Off line auxiliary data which is updated periodically (e.g.; once per week following calibration), this data will be used by the processors and will change as and when an update of the auxiliary data is available. • Static tables are not foreseen to change during the duration of the mission (but in practise may occasionally be updated as the physical characteristics of the instrument sensor or the definition of a geophysical parameter change. 	[ENVISAT GLOS]
Baseline	A configuration item that has been formally reviewed and agreed upon, that thereafter serves as a basis for further development, and that can be changed only through formal change control procedures.	ECSS,QMS
Baseline (interferometric)	The accurate determination of distances (or baselines) between satellites flying in formation. Baseline calibration is a needed step in all applications of SAR interferometry and differential interferometry.	IEEE
Baseline Date	The original planned dates for an activity/task. Compare with the current schedule to see if the projects is proceeding as planned.	[ENVISAT GLOS]
Browse	A browse product contains a strip of continuous instrument operation derived from a level 1B PDS product. It is used as a visual representation of a product to help and support the selection of products in the frame of the UUSF facility. Synonyms are:Browse, Quick-look, Pre-view	[ENVISAT GLOS]
Calendar	Identifies when an activity, task, key event, can be scheduled based on the working days and holidays that have been defined. A default calendar is annually defined.	

Term	Description	References
Cataloguing	The purpose of a catalogue is to show to users what it is possible to have. Therefore it includes entries on visible, planned and on-demand EO products. It is supported by data management functionality (e.g. inventory, archiving) based on references to corresponding data products stored by <i>archiving</i> . Products can be organised in collections with restricted access depending on product type and users. Cataloguing in the payload ground segment occurs in several areas: user services, central product/order handling and <i>archiving/inventory</i> .	[PDGS GLOS]
Change Control	The process, by which a change is proposed, evaluated, approved or rejected, scheduled and tracked. It is also called Change Management.	ECSS, QMS,
Child products	Child products are the result of the extraction of products from Level 0, 1b or 2 products (parent product), they own the same format and file name principles as any other PDS product. The extract is specified by a start time and a stop time. Child products are extracted from existing parent products only (child product does not apply to future products). Child products apply to all PDS products : products from the global mission and products from the regional missions.	[ENVISAT GLOS]
Circulation	The <i>circulation</i> function provides the distribution of products between centres. Products are subject to circulation if they are needed for further <i>processing</i> or <i>archiving</i> . Circulation relies on suitable network services.	[PDGS GLOS]
Collection	The ensemble of some products having a common focus or theme or purpose (e.g. collection of land photo)	
Component	Subsystem of an element with functional definition and defined (PDGS-internal) interface. Mission-specific plug-ins for mission-generic elements (e.g. IPFs) and plug-ins to be used in several elements (e.g. Decryption) are examples of components to be described.	[PDGS GLOS]
Consolidation	The <i>consolidation</i> function is a particular case of systematic <i>processing</i> that generates <i>products</i> of the same level as its inputs but with different well-defined spatio-temporal coverage. The purpose of <i>consolidation</i> is to provide a canonical set of <i>products</i> for long-term <i>archiving</i> and further <i>processing</i> .	[PDGS GLOS]
Configuration Control	The systematic evaluation and management of proposed changes, and the implementation of all approved changes in the configuration of a Configuration Item after formal establishment of the baseline.	
Configuration Control Board (CCB)	A board composed of technical and administrative representatives who approve or reject proposed engineering changes to an approved baseline.	[ENVISAT GLOS]
Configuration Item	A item of hardware, firmware, software, procedures and documents for the purpose of configuration management. Any item required for logistic support and designated for separate procurement is a Configuration Item.	
Configuration Item List	A catalogue of Configuration Items in a baseline or release.	
Critical Path	The sequence of activities that must be completed on schedule for the entire project to be completed on schedule.	PMI, SEI, ENVISAT

Term	Description	References
	This is the longest duration path through the workplan. If an activity on the critical path is delayed by one day, then entire project will be delayed by one day (unless another activity on the critical path can be accelerated by one day).	
Cumulative	For cumulative datasets, products are made available only at completion of the pre-agreed coverage.	[CDS GLOS]
Data Calibration	<p>Calibration will take place as a matter of routine during on-line processing within the PDS but the calibration applied must be maintained and updated, to ensure and improve the integrity of data products. Calibration can be broadly divided into four categories :</p> <ul style="list-style-type: none"> • On-line instrument calibration which is provided as part of the instrument data, for example, the correction of thermal infrared data to absolute temperature based on black body radiation values recorded at the end of each sensor scan. This is ancillary data as defined below, • On-line engineering calibration, using data which will be provided as part of other downlink or flight operations data. For example, spacecraft attitude data or DORIS data used for geo-location of products. Auxiliary Data Management function will need to ensure that the data is converted to the right format for input to the processing algorithm and perform updates to the calibration arising from detailed quality assessment of the resultant products, • Off-line engineering calibration, in which calibration data is deduced from previous down linked data or instrument test data and are applied to all data sets received from that instrument. For example, antenna gain patterns for a microwave instrument. Initially the values will be set based on ground test data, but these are likely to change due to the launch vibration environment and the subsequent exposure to the space environment. Data calibration function will deduce what the changes are and modify the appropriate calibration data accordingly, test the changed data and update the processing facility calibration tables, • Geophysical calibration in which ground based or airborne measurements are used to calibrate spacecraft observations against ground truth data based on Data Validation. 	[ENVISAT GLOS]
Data Segment	<ul style="list-style-type: none"> • Instrument Acquisition Data Segment : A continuous stream of data acquired from one instrument operating in a particular mode. This definition applies only to high bit rate data and for MERIS RR, which operates only during daylight. (For all other instruments an IADS could potentially last five years!) • Downlink Data Segment : That data received by the PDS from a single downlink data stream at a particular station for a particular instrument. N.B. : For ASAR there is a single Downlink Data Segment ; otherwise the two halves of the QPSK downlink will be in Different Downlink data segments. 	[ENVISAT GLOS]

Term	Description	References
	<ul style="list-style-type: none"> Reception Data Segment : All data received at a single station during an overpass. This is a composite of all instrument Downlink Data Segments for both parts of the QPSK modulated stream. 	
Dataset	A collection of related data records on a storage device	[
DAP Orders	Orders of future or past data implementing DataSets specified within the DAP. They are issued by the CDS towards the GCMs, and constitute the agreed GSCDA baseline plans for the GCMs, specifying not only the acquisition plan but also the set of products to be systematically generated and made available from those acquisitions.	[CDS GLOS]
Datatake Reconstruction	The <i>datatake reconstruction</i> function performs the identification of <i>datatakes</i> or segments of them. Reconstruction of datatakes is done from segments in case datatakes are received in segments in several <i>downlinks</i> . This function may instead be located in the Receiving Stations domain.	[PDGS GLOS]
Decryption	The <i>decryption</i> function inverts the corresponding encryption of data on board of the satellite for transmission before it is down linked.	[PDGS GLOS]
Delivery Package	A <i>delivery package</i> contains one or several <i>products</i> to be delivered to a <i>user</i> to fulfil an <i>order</i> . In the simplest case the <i>delivery package</i> is a single <i>product</i> . A <i>delivery package</i> may contain supplementary data like documentation or tools.	[PDGS GLOS]
Dissemination	The <i>dissemination</i> function delivers the final <i>product</i> to the <i>user</i> , by means of physical media, electronic distribution (e.g. ftp-push) or electronic server access (e.g. ftp-pull). Therefore, dissemination is concerned with the preparation of the delivery media in case of offline delivery and the management of online access.	[PDGS GLOS]
Dissemination Request	A <i>dissemination request</i> is a <i>request</i> for <i>dissemination</i> of certain products. It usually is related to an <i>order</i> that shall be fulfilled. <i>Dissemination requests</i> are parameterised with delivery parameters like delivery method, medium and address, and parameters to determine the <i>products</i> to be delivered.	[PDGS GLOS]
Data Set (DS)	Collection of EO products responding to the needs of a GMES Service Project. A Data Set is typically composed by products from several missions, gathered together to respond to the overall coverage or revisit requirements from the services.	[CDS GLOS]
DMOP (Detailed Mission Operation Plan)	It defines the FOS planned and actual instruments operations. It is the FOS answer to the received PEP. It defines the detailed operation schedule of the satellite including DRS associated operations. DMOP fulfils all satellite constraints and provides timing of events against the reference orbit. It contains all instrument mode switching implementing the regional, global and background missions. It is sent to the MCF within two days nominally of the PEP reception. This is the FOS confirmation of the planned instruments operations. DMOP can include modifications to previous DMOPs. It can be sent asynchronously to the MCF, i.e. no association with any	[ENVISAT GLOS]

Term	Description	References
	<p>PEP, if needed, in case of emergency FOS contingency situation.</p> <p>The FOS is assumed to provide a DMOP at the end of each day nominally, which details the actual satellite operations that have been executed. The DMOP provides updates, on an orbit basis, for all orbits where deviations have been observed with respect to the planned DMOP.</p>	
Domain	<p>Functional subdivision of the PDGS into sets of element types that together implement a high-level function. The domains of the PDGS currently are</p> <ul style="list-style-type: none"> • User Access, Coordination and Control • Reception • Processing, Archiving and Dissemination • Sensor Performance, Products and Algorithms 	[PDGS GLOS]
Downlink	<p>Data stream from the satellite to a receiving station during visibility of the satellite from the station. The data stream transmits the payload data and optionally telemetry and housekeeping data.</p>	[PDGS GLOS]
Element / Component	<p>A constituent part of a complex whole defined as system</p>	[CDS GLOS]
Element	<p>Subsystem (of the PDGS) with defined function(s) and interfaces. An element may be composed of several components that together implement the function(s) of the element.</p>	[PDGS GLOS]
Evolution	<p>Those activities undertaken to allow a system to meet a new or evolving requirement</p>	[EO OPS GLOS]
Facility	<p>Combination of elements required by a ground operations organization to perform an operational task</p>	[CDS GLOS]
Facility	<p>Combination of elements required by a ground operations organization to perform an operational task. It can be a co-located set of elements – often the elements of a system domain - configured for one or several missions</p> <p><i>Note: the relation between elements and facilities follows ECSS (ECSS E70 Part 1A), section 4.2 Ground Segment Composition</i></p>	[PDGS GLOS, ECSS]
Floating Frames	<p>The result of the process of splitting a product data file into smaller files, sometimes called "frame". For example a SAR product may be divided into "frames" of 100 km x 100 km. The framing may occur on any product down to a minimum defined product size, for ease of communication or user access</p>	[ENVISAT GLOS]
Fast24h	<p>Newly acquired data are made available within 24 hours from sensing (when referred to Level 3 composite products it means 24 hours after sensing of the last image necessary to the composition).</p>	[CDS GLOS]
Fast48h	<p>Newly acquired data are made available within 48 hours from sensing. This category may also include data systematically consolidated with definitive auxiliary data.</p>	[CDS GLOS]
Footprint	<p>Is defined as the Earth area covered by the satellite (e.g. by its transponders) or by its on-board instruments</p>	
Flight Operations Segment	<p>The personnel and elements performing all the activities related to planning, execution and evaluation of control of the space segment or subsets thereof when in orbit</p>	[PDGS GLOS] See ECSS definition of FOS (E-10, E-70)

Term	Description	References
GAP (Global Activity Plan)	Schedule of all instruments operations including user orders, global mission and deltas to the global mission as well as background regional mission operations. It covers five years rolling window ahead of the current time. It takes into account the mission constraints and HLOP and assumes for the medium/long term the availability of all resources. This includes ground station/DRS capabilities and G/S and satellite constraints. It is updated by the planned FOS operations (DMOP). The short term planning takes into account the previous constraints as well as the known unavailability of G/S and S/S.	[ENVISAT GLOS]
Global Systematic EO Mission	An EO mission which acquires systematically over the whole globe. This kind of missions have limited mission planning, and are supposed to systematically process (up to L1 and higher) and store all data products.	[CDS GLOS]
GMES Medium Term Archive (MTA)	The purpose of the GMES Medium Term Archive (MTA) is to provide a joint data repository accumulating the products from different mission operators to support the dataset assembly until the specific dataset is finalised.	[CDS GLOS]
GMES Long Term Archive (LTA)	The purpose of the GMES Long Term Archive (LTA) is to ensure long-term preservation of the GMES completed datasets in a dedicated European Infrastructure as required by the GMES programme. Authorised service providers shall have access to these datasets for the purposes delimited by the GMES data policy.	[CDS GLOS]
Granule	<ul style="list-style-type: none"> • (measurement) : A granule is a set of measurement data set records (DSR) corresponding to the same time segment of an auxiliary data set record. A granule cannot be separated into several parts during child product generation. • Archiving Granule : The smallest quantity of data stored by the ARF. 	[ENVISAT GLOS]
GSCDA Operational Scenario	Pre-defined mode of operation of the GSCDA system, characterized with respect to the implemented overall data flow and interaction between the CDS, the GSPs and the GCMs. Any scenario is capable of accommodating different types of DataSets for serving different applications.	[CDS GLOS]
Guide	The <i>guide</i> function is part of the <i>user information</i> function to provide information about satellites, sensors, product types and services.	[PDGS GLOS]
Ingestion	The <i>ingestion</i> function accepts data from different sources: ground segment <i>reception</i> , <i>processing</i> or data migration elements. The received data is quality checked and metadata including browse images are obtained from the data. The data and meta-data form a data product. The <i>product</i> is consistently submitted to <i>archiving</i> and <i>cataloguing</i> .	[PDGS GLOS]
Instance	<p>One operational incarnation of an element with its configuration</p> <p><i>Note: Generic software may be instantiated several times optionally with different configurations. Other examples are mission-specific elements that will occur in a separate instance for each mission in the PDGS.</i></p>	[PDGS ARCH]
Instrument Calibration	The <i>instrument calibration</i> function is the determination of parameters describing instrument characteristics. They are to	[PDGS GLOS]

Term	Description	References
	be used by the instruments and ground <i>processing to generate calibrated and comparable physical values</i> . These parameters vary for different instruments and modes. And they may vary over time in the long run (degradation).	
Instrument Source Packet	An individual packet of data formatted by the instrument and reconstituted from within the descrambled VCDUs	[ENVISAT GLOS]
Integration	Process of combining architectural elements into a upper level architectural element.	[ENVISAT GLOS]
Inventory	The <i>inventory</i> function provides organisation capabilities for archiving management. Data products can be grouped, searched and identified for retrieval, statistics and reorganisation. Inventory is also referred to the list of available items stored and/or controlled in a storage warehouse system. In this latter case it is necessary to specify the kind of inventory, e.g. ICT Inventory for infrastructure inventory list.	[PDGS GLOS, PMI]
ISP segment	A continuous set of ISP with the same mode and the same instrument programmable parameters (e.g. the same swath and polarisation, no change to PRF : pulse repetition frequency) as it will appear in the PEP and DMOP.	[ENVISAT GLOS]
Issue	A version of a document that has undergone major changes since previous version.	[ENVISAT GLOS]
Key Event / Milestone	An event scheduled and defined within the project development and used as a landmark to check that the work performed corresponds to what was previously defined.	[ENVISAT GLOS]
Lead Times (for orders or requests)	This indicates the time interval needed for an order to be activated	[CDS GLOS]
Level 0	Reconstructed unprocessed data at full space-time resolution with all available supplemental information to be used in subsequent processing (e.g. ephemeris, health and safety) appended.	[CDS GLOS]
Level 1A	Reconstructed unprocessed data at full resolution, time-referenced, and annotated with ancillary information, including radiometric and geometric calibration coefficients and geo-referencing parameters (e.g. ephemeris) computed and appended but not applied to the Level 0 data.	[CDS GLOS]
Level 1B	Radio-metrically corrected and calibrated data in physical units at full instrument resolution as acquired.	[CDS GLOS]
Level 1C	L1B data ortho-rectified, re-sampled to a specified grid	[CDS GLOS]
Level 2	Derived geophysical parameters (e.g. sea surface temperature, leaf area index) at the same resolution and location as Level 1 source data.	[CDS GLOS]
Level 3	Data or retrieved geophysical parameters which have been spatially and/or temporally re-sampled (i.e. derived from Level 1 or 2 products), usually with some completeness and consistency. Such re-sampling may include averaging and compositing.	[CDS GLOS]
Maintenance	Those activities undertaken to allow equipment to continue operations in its current configuration	[EO OPS GLOS]
Monitoring & Control	The <i>monitoring & control</i> function ensures that all resources (hardware, software, and network) of the ground segment are operating nominally. The <i>monitoring & control</i> function makes visible and traceable activities of the ground segment. It influences these activities by operator interaction, e.g. for	[PDGS GLOS]

Term	Description	References
	failure handling. <i>Note: Currently does not exist a PDGS end-to-end monitoring & control facility.</i>	
Normal	Newly acquired data are made available several days after sensing (i.e. > 48 hours). This category may include data systematically consolidated with definitive auxiliary data. Timeliness for refinement depends on the availability of auxiliary data and has to be defined on a DataSet basis.	[CDS GLOS]
Notification	The <i>notification</i> function informs about events in the <i>payload data ground segment</i> that has been registered for. An example of an event is the emergence and <i>inventorisation</i> of a new <i>product</i> of a certain type intersecting a certain region. The notifiee may either be elements of the <i>ground segment</i> (internal notification) or <i>users</i> (external notification). <i>Note: Formally the term notifiee identifies a java language class used for reporting or printing.</i>	[PDGS GLOS]
NRT1h	Newly acquired data are made available as soon as possible and at maximum within 1 hour from sensing. <i>Note that this category is limited to very few DataSets (e.g. depending on the region to be monitored or on the availability of geostationary platforms)</i>	[CDS GLOS]
NRT3h	Newly acquired data are made available within 3 hours from sensing.	[CDS GLOS]
On-demand DataSet	This dataset can not be anticipated in time and will arise on demand. The large majority of on-demand datasets will be resulting from Emergency and Security Core Services for <u>satisfying emergency requests</u>	[CDS GLOS]
Online Data Provision	The <i>online data provision</i> function makes available <i>products</i> online for download by <i>users</i> . In comparison with <i>ordering</i> and <i>order handling</i> which is asynchronous, this function provides direct access to the data.	[PDGS GLOS]
Orbit	The path in space described by a satellite revolving around the Earth where the motion of the orbiting satellite is dominated by their mutual gravitational attraction. Orbits can be different and the most common are polar and equatorial. Orbit is nominal when the path is according to the flight plan (e.g. nominal mission). Predicted orbits: These state vectors are calculated (e.g. at ESOC) using S-band tracking and fast delivery altimeter data acquired. Restituted (or operational) orbits are produced (e.g. at ESOC) using the same information and processing as with the Predicted Orbits. In this case, the central day of the three days moving window provides the final orbit. As a result, the operational orbit is available with a delay of one day after the pass of the satellite. Typically its information is specified every 60 seconds with less precision comparing to precise orbits. Preliminary orbits: Preliminary orbits are based on the fast delivery tracking data. They provide an improvement of the initial knowledge of the orbit but not the optimal fit. Precise orbits: The precise orbit products result from a computation using all available satellite tracking data and its	ESA EarthNet Online Astronomy dictionary IEEE

Term	Description	References
	correction with dynamical models. They achieve the most accurate model of representing the real orbit motion.	
Orbit Prediction and Determination	The <i>orbit prediction and determination</i> function is the generation of attitude and state vectors that describe the projection of the spacecraft for certain time intervals. They are computed either beforehand (predicted orbit) or afterwards with different accuracies (restituted orbit, precise orbit).	[PDGS GLOS]
Order	An <i>order</i> is a contract between a <i>user</i> and the institution that operates the <i>payload data ground segment</i> . The <i>order</i> is issued by the <i>user</i> in order to receive certain <i>products</i> or services. The representation of the <i>order</i> contains order items and parameters for <i>acquisition, processing, dissemination</i> .	[PDGS GLOS]
Order	A binding contract between a user and the provider related to earth observation products. Several kinds of orders can be distinguished: <ul style="list-style-type: none"> • <i>scene order</i> for selected products or subsets thereof, either existing or producible from archived products, or planned for acquisition or available as acquisition opportunity that requires planning • <i>standing order</i> with different “repetition” conditions, among them <ul style="list-style-type: none"> ○ <i>subscription</i> for a <i>standard product</i> ○ <i>repeated production order</i> based on standard products ○ <i>repeated acquisition order</i> (time series) ○ <i>geo-spatial coverage order</i> 	[PDGS ARCH]
Order Handling	The <i>order handling</i> function coordinates the process required to achieve final delivery of <i>products</i> based on user <i>orders</i> . The required sequence of activities related to <i>acquisition</i> including <i>reception, production</i> and <i>dissemination</i> is monitored and controlled. The workflows may vary depending on <i>user</i> information and the sensitivity of data. <i>Order handling</i> issues <i>acquisition requests</i> for <i>acquisition planning</i> and <i>production requests</i> for <i>production handling</i> .	[PDGS GLOS]
Ordering	The <i>ordering</i> function provides an interface for the user to place orders for the <i>products</i> of the mission(s) operated by the ground segment. The ordering may be for <i>products</i> that can be derived from already acquired data, planned <i>acquisitions</i> , and potential <i>acquisitions</i> yet requiring planning. The ordering function should verify any constraints that may be imposed on users or products, and report status and relevant information back to the user.	[PDGS GLOS]
Ordering granule	The smallest element that can be ordered by a user. It can either relate to a Product.	[ENVISAT GLOS]
Payload Data Ground Segment	The personnel and elements performing mission operations related to payload data	[PDGS GLOS]
Plug-in	Component of an element that is used in (plugged into) the element as integral part of its workflow, often by configuration and close coupling. The same plug-in may be used in several components. It has a published interface, and usually, it has an interface only to the element it is plugged	[PDGS ARCH]

Term	Description	References
	into.	
PEP (Preferred Exploitation Plan)	Defines the deviations, if any, to the global mission, the regional observations (time segments per orbit) with their relative priorities and downlink type. It is based on the GAP and DMOP response from the FOS, and nominally covers one day of satellite acquisitions. It is nominally sent to the FOS 2 weeks before the acquisition ; but can be sent from 14 days (nominal cut off point) up to 2 days (emergency cut off point) before sensing for emergency acquisition. PEP can include modifications to previous PEPs. In that case it contains the orbits for which there are changes. It is sent to the FOS asynchronously for emergency operations and when DRS link utilisation is needed.	[ENVISAT GLOS]
Phase	<ul style="list-style-type: none"> The break-down of the development. Any work performed fits in with a phase. (operational context) A phase characterises the operational status of a system or a segment. A phase can contain nominal cases and contingency cases and a phase at segment level can break down into modes for lower levels sub-systems (centres and facilities). 	[ENVISAT GLOS]
Pre-defined DataSet	This dataset is an <i>anticipative dataset</i> for which the required types of missions, the geographical coverage, the desired acquisition time and strategy is established as DAP baseline. This pre-defined dataset is fixed for a certain time period, and is not subject to sudden changes.	[CDS GLOS]
Processing	The <i>processing</i> function generates higher level <i>products</i> from lower level <i>products</i> and auxiliary products. The processing is performed by core algorithms supplemented by administrative functions (e.g. formatting). The algorithms are version controlled. Processing is capable to produce the desired products systematically or on request.	[PDGS GLOS]
Processing baseline	A combination of processors versions, auxiliary data and other needed enablers that allows the generation of coherent EO products	[Earth Explorers GLOS]
Processing granule	The smallest quantity of data input by or output from the processing facility during processing. At level 0 this will be an instrument source packet. The size of the processing granule will be instrument and process level dependent.	[ENVISAT GLOS]
Product	<i>Products</i> are defined earth observation data sets. They are composed of metadata and data structured into one or more components like primary data or browse image. Auxiliary products like orbit data are also subsumed by the general term <i>products</i> .	[PDGS GLOS]
Product (child)	A child product is the result of a data extraction from a (parent) product. It is also a PDS product and has the same format and follows the same filename principles than the other PDS products. The data set contained in the child product is the subset of those of the parent product.	[ENVISAT GLOS]
Product Segment	The result of the processing of all or a part of an ISP segment within a station visibility.	[ENVISAT GLOS]
Production Request	A <i>production request</i> is a <i>request</i> for production of certain <i>products</i> . It may be related to an <i>order</i> that shall be fulfilled. <i>Production requests</i> are parameterised with processing parameters and parameters to determine inputs and optionally outputs.	[PDGS GLOS]

Term	Description	References
Product Quality Control	The <i>product quality control</i> function is the determination of parameters of single products describing product quality. This may include automated as well as manual activities, e.g. visualisation of quick looks.	[PDGS GLOS]
Production Request Handling	The <i>production request handling</i> function determines for a <i>production request</i> how it is processed. It dispatches <i>production requests</i> to a suitable processing system. It selects and controls production chains and production-dissemination chains if several steps are required to generate the desired product. It further controls bulk delivery with post-processing of larger subsets of product collections.	[PDGS GLOS]
Products Accumulation	In the context of GSC DA, <i>products accumulation</i> means that products are put together within a data repository without any filter.	[CDS GLOS]
Products Composition	<i>Products Composition</i> implies putting products together to constitute a complex product, e.g. mosaicking	[CDS GLOS]
Products Assembly	<i>Products Assembly</i> means putting products together according to predefined rules, e.g. their a priori membership of a dataset.	[CDS GLOS]
Raw data	Data as received from the satellite (serial CADU data stream, without demultiplexing. (Not computer compatible)	[ENVISAT GLOS]
Reception	<p>The <i>reception</i> function receives the payload data down-linked by the satellite. This might be either remotely sensed data or data played back from an on-board recorder. This function includes the demodulation of the down-linked data stream and the de-multiplexing, synchronization and reconstruction of the payload data in computer compatible format (CCF).</p> <p><i>Note: Reception is more widely used in GS than acquisition for the reception of downlinks: RadarSAT, ERS, TerraSAR-X, ICONOS, Pleiades. Acquisition also leads to ambiguousness with image acquisition. See proposed definition of acquisition</i></p>	[PDGS GLOS]
Release	A baseline available for use.	[ENVISAT GLOS]
Repeated Acquisition Order	<p><i>Repeated acquisition orders</i> are <i>standing orders</i> for user-defined or mission management-defined sets of <i>products</i> to be acquired repeatedly, with the purpose of repeated delivery of products to the user or systematic population of the catalogue.</p> <p>Repetition is defined either temporally or spatially, i.e. results in a time series of future products or a coverage of a region by adjacent future products.</p> <p>Individual processing parameters may be specified for user-defined (post-)processing.</p>	[PDGS GLOS]
Repeated Production Order	<p><i>Repeated production orders</i> are <i>standing orders</i> for user-defined sets of products based on standard products, but with user-defined post-processing. The standard products are systematically acquired (e.g. L0) and the order defines repetition conditions, selection conditions (e.g. area of interest) and parameters for processing.</p> <p><i>Note: The three terms subscription order, repeated acquisition order and repeated production order cover the</i></p>	[PDGS GLOS]

Term	Description	References
	<i>three cases of “repetition”. They have been introduced since they imply different scenarios and handling in the PDGS.</i>	
Re-Processing	<i>Re-processing</i> is a specialization of <i>processing</i> where a complete product collection is systematically generated to obtain a new revision using archived lower level products. Re-processing is normally initiated after an improved processing algorithm is approved.	[PDGS GLOS]
Request	A <i>request</i> is the generic asynchronous means to use a function of an element that provides the function as its service. After the service has been provided the provider asynchronously returns a final status of the <i>request</i> to the caller to inform about the result. <i>Requests</i> are usually exchanged between elements such that one element uses the functions of the other.	[PDGS GLOS]
Revision	A version of a document with minor changes from the previous version.	[ENVISAT GLOS]
ROP (Reference Operation Plan)	The ROP is derived from the HLOP. It will define : <ul style="list-style-type: none"> • the Global Mission • the Background Regional Mission • the DRS utilisation • the priorities to be applied to the user requests as a function of the observation / operation objectives and user categories. It is assumed to be a computer file(s), containing a set of directives, declarations, assertions, decision tables, timing tables, logical expression, if-then rules, expressed in a formal language. The ROP is generated by ESA.	[ENVISAT GLOS]
Segment	A segment refers to the acquisition segment with a continuous set of ISP data (same swath and polarisation, no change of PRF).	[ENVISAT GLOS]
Sensor Performance Monitoring	The <i>sensor performance monitoring</i> function is the long-term recording and trend analysis of parameters that describe the quality of sensors and their outputs (level 0 products).	[PDGS GLOS]
Service Provider	A Third Party organisation using the Service Support Environment to provide a service to another organisation or user.	[EO OPS GLOS]
Standard Product	<i>Standard Products</i> are products that are acquired systematically by mission orders and products that are generated by systematic processing. Standard products are the basis for subscriptions. <i>Note: Standard products are the products that will come to existence without prior user order. Whether some product type is offered as standard product depends on whether it can be generated systematically or whether user-defined parameters determine its processing.</i>	[PDGS ARCH]
Standing Order and Subscription Handling	The <i>standing order and subscription handling</i> function maintains <i>standing orders</i> and <i>subscription orders</i> . It controls the repeated activities to be performed for them. The activities may be time-controlled. Or they may be initiated by the availability of new products (see <i>notification</i> function).	[PDGS GLOS]
Standing Order	A <i>standing order</i> is an <i>order</i> to repeatedly disseminate a user-defined set of data <i>products</i> . Definition is by product	[PDGS GLOS]

Term	Description	References
	type, date interval(s) and area. It may be further restricted e.g. by required minimum quality and/or coverage. It may refer to <i>products</i> that are acquired systematically or on request. Or it may be an <i>order</i> for repeated <i>acquisition</i> (repeated acquisition order).	
Standing Orders	Standing orders are requests for stream or cumulative future DataSets, and specify systematic operations (e.g. acquisition, processing and dissemination) covering a specified area with predefined frequency.	[CDS GLOS]
Statistics and Reporting	The <i>statistics and reporting</i> function provides information about usage, progress, load, quality of service of the <i>payload data ground segment</i> .	[PDGS GLOS]
Subscription Order	<p>A <i>subscription order</i> is an <i>order</i> by a <i>user</i> such that a provider-defined set of data products is repeatedly disseminated to the user. Definition is by product type, date range, geographical region, and optionally additional constraints. This includes e.g. orders for NRT services.</p> <p><i>Note: This definition is the one for subscription used in FEOMI. The OAIS definition of event based order is more generic: A request that is generated by a consumer for information that is to be delivered periodically on the basis of some event or events.</i></p>	[PDGS GLOS]
Subscription	Subset of data that are made available regularly on new production basis. Subscription data is typically made available on-line. Users can request to join the advertised available subscriptions (via <i>Subscription Requests</i>) and get access to it with no additional ordering.	[CDS GLOS]
Subscription	<p>.Subscription is related to the dissemination aspects of a generated product.</p> <p><i>Subscription</i> identifies the relation between a user and a provider-defined (standard) product generated and has the purpose of repeated delivery of products to the user. Definition is by product type, temporal repetition condition, geographical region, and optionally additional constraints.</p> <p><i>Note: Note that besides the external subscription offered to users there is also a function of subscription and notification internal to the PDGS that is used between elements for event propagation. This is called internal subscription. Further note that the provider-defined thing is denoted by the term standard product while subscription denotes the relation between a single user and the standard product as in the newspaper subscription paradigm.</i></p>	[PDGS ARCH]
System	Set of interdependent elements constituted to achieve a given objective by performing a specified function.	[CDS GLOS]
Swath Preview	The <i>swath preview</i> shows the possible swathes of a sensor on the earth surface for a given geographical location, time window, sensor mode and path direction.	[PDGS GLOS]
Task	A collection of Work Packages into a coherent domain to allow understanding of the work to be undertaken within that domain.	[EO OPS GLOS]
Transcription	The <i>transcription</i> function performs the identification of <i>datatakes</i> or segments of them. Reconstruction of datatakes is done from segments in case datatakes are received in	

Term	Description	References
	segments in several <i>downlinks</i> .	
User	External person, institution or system that interacts with the <i>payload data ground segment</i> . <i>Users</i> use defined interface functions like <i>user information</i> , <i>ordering</i> , <i>user support</i> , <i>online data provision</i> or <i>dissemination</i> . Purpose of this interaction is to obtain earth observation data products or services. Users may act for their own purpose (end users) or on behalf of others.	[PDGS GLOS]
User Information	The <i>user information</i> functions comprise access to guide, catalogue search and retrieval, swath preview, ordering, user profiles and other interface functions for external users. <i>Note: The term user information as the name of a function may have to be discussed (in relation to user information services).</i>	[PDGS GLOS]
User Management	The <i>user management</i> function maintains information about registered <i>users</i> and supports registration, authentication and authorisation. The data maintained comprises e.g. user profiles, accounts, and quotas.	[PDGS GLOS]
User Support	<i>User support</i> is a function inside the <i>payload data ground segment</i> to support external <i>users</i> to interact with the segment, to handle user registration, inquiries, complaints. This function is usually provided by a help desk.	[PDGS GLOS]
Validation	Confirmation, through the provision of objective evidence that the requirements for a specific intended use or application have been fulfilled. [ISO 9000:2000]	[CDS GLOS] [ECSS]
Verification	Confirmation, through the provision of objective evidence that the requirements have been fulfilled. [ISO 9000:2000]	[CDS GLOS] [ECSS]
Work Breakdown Structure (WBS)	A Product oriented family tree dividing hardware, software, services, and other work tasks, which organises, defines, and graphically displays the product to be produced, as well the work to be accomplished to achieve the specified product.	[ENVISAT GLOS]
Work Package	A statement of a specific activity to be undertaken. It should be noted that Work Packages may be split into sub-Work Packages.	[EO OPS GLOS]
Work Package (Activity)	Represents a set of tasks and the end level of the WBS. Work Packages are contractually attributed to a company and are described in a WPD.	[ENVISAT GLOS]
Work Package Description (WPD)	Detail description of work to be done to achieve the work package	[ENVISAT GLOS]

Table 1: Definitions

2.2 Abbreviations

Acronym	Description	References
AATSR	Advanced Along Track Scanning Radiometer	[EO OPS GLOS]
ADC	Auxiliary Data Coordination (PDGS element)	[PDGS GLOS]
AISP	Annotated Instrument Source Packet	[EO OPS GLOS]
AIV	Assembly, Integration and Validation	[EO OPS GLOS]
APAD	Reception, Processing, Archiving and Dissemination (PDGS domain)	[PDGS GLOS]
ARF	Archive Facility (ENVISAT)	[EO OPS GLOS]
ARS	Acquisition Reporting System	[EO OPS GLOS]
ARTS	Anomaly Report Tracking System	[EO OPS GLOS]
ATSR	Along Track Scanning Radiometer	[EO OPS GLOS]
AVHRR	Advanced Very High Resolution Radiometer	[ACRONYMS]
BER	Bit Error Rate	[ACRONYMS]
Cal	Calibration	ENVISAT SAD
Cal/Val	Calibration and Validation	ENVISAT SAD
CARE	Customer Care Environment Project	[EO OPS GLOS]
CAT	Master Catalogue (PDGS element)	[PDGS GLOS]
CCB	Configuration Control Board	[EO OPS GLOS]
CCF	Computer Compatible Format	[ACRONYMS]
CCN	Contract Change Notice	[EO OPS GLOS]
CCSDS	Consultative Committee for Space Data Systems	[ACRONYMS]
CD	Compact Disc	[EO OPS GLOS]
CDS	Coordinated Data System	[CDS GLOS]
CDS-CI	CDS Core Infrastructure	[CDS GLOS]
CDS-PPE	CDS Post Processing Element	[CDS GLOS]
CDS-SCI	CDS Service Projects Coordinated Interface	[CDS GLOS]
CDS-SPR	CDS System Performance and Reporting	[CDS GLOS]
CEOS	Committee on Earth Observation Satellites	[EO OPS GLOS]
CF	Coordinating Function	[CDS GLOS]
CFI	Customer Furnished Items	[EO OPS GLOS]
CIR	Circulation (PDGS element)	[PDGS GLOS]
CM	Contributing Mission	[CDS GLOS]
CMB	Configuration Management Board	[ACRONYMS]
COTS	Commercial Off The Shelf	[EO OPS GLOS]
CQC	Coordinated Quality Control (GSCDA)	[CDS GLOS]
CR	Change Request	[EO OPS GLOS]
CSF	Common Service Facility (ENVISAT)	[EO OPS GLOS]
CTI	Configuration Table Interface	[EO OPS GLOS]
CUS	Central User Services (ERS)	[EO OPS GLOS]
CVCDU	Coded Virtual Channel Data Unit (in AF)	[ENVISAT GLOS]
CZCS	Coastal Zone Colour Scanner	[ACRONYMS]
DA	Data Access	[CDS GLOS]
DAIL	Data Access Integration Layer	[CDS GLOS]
DAM	Data Access Portfolio Management function	[CDS GLOS]
DAP	Data Access Portfolio	[CDS GLOS]
DAP-DS	Data Access Portfolio – Data Set	[CDS GLOS]
DB	Database	[CDS GLOS]

Acronym	Description	References
DBMS	Database Management System	[EO OPS GLOS]
DDS	Data Dissemination System	[EO OPS GLOS]
DEM	Digital Elevation Model	[CDS GLOS]
DESCRW	Display Earth Observation Satellite Coverage for Windows	[EO OPS GLOS]
DF	Dissemination Facility (ENVISAT)	[EO OPS GLOS]
DLT	Digital Linear Tape	[EO OPS GLOS]
DIS	Dissemination (PDGS element)	[PDGS GLOS]
DMOP	Detailed Mission Operations Plan	[EO OPS GLOS]
DPM	Data Processing Model	[EO OPS GLOS]
DS	DataSet	[CDS GLOS]
DVD	Digital Video Disc	[EO OPS GLOS]
EC	European Commission	[CDS GLOS]
ECO	Emergency On call Officer	[EO OPS GLOS]
ECSS	European Cooperation for Space Standardisation	[CDS GLOS] [ACRONYMS]
EGO	Project for EarthNet Google Raster Data Usage for SVT and EOLI	[EO OPS GLOS]
EMC	Electro Magnetic Compatibility	[ACRONYMS]
EMMCF	ESRIN Multi-Mission Central Facility	[EO OPS GLOS]
EMP	ENVISAT Mission Planning System of the multi-mission USMP infrastructure	[EO OPS GLOS]
EO	Earth Observation	[CDS GLOS] [ACRONYMS] [EO OPS GLOS]
EOHD	Earth Observation Help Desk call tracking system	[EO OPS GLOS]
EOA	Enhanced On Line Access	[CDS GLOS] [EO OPS GLOS]
E-OA	Enhanced On Line Archive	[CDS GLOS] [EO OPS GLOS]
EOLI	Earth Observation Link (Note: it is composed by EOLI-SA and Server)	[CDS GLOS] [EO OPS GLOS]
EOLI-SA	EOLI Stand Alone (client application)	[CDS GLOS] [EO OPS GLOS]
EOP-G	Earth Observation Ground-Segments Department	[CDS GLOS] [ACRONYMS]
EOTPR	Earth Observation Tape Replacement Project	[EO OPS GLOS]
ERCS	Emergency Response Core Service	[CDS GLOS]
ERS	European Remote Sensing Satellite	[ACRONYMS] [EO OPS GLOS]
ESA	European Space Agency	[CDS GLOS] [ACRONYMS]
ESL	Engineering Support Laboratory	[EO OPS GLOS]
ESOC	European Space Operations Centre (Darmstadt)	[EO OPS GLOS]
ESRIN	European Space Research Institute (Frascati)	[EO OPS GLOS]
EU	European Union	[CDS GLOS]
FAT	Factory Acceptance Test	[EO OPS GLOS]
FAQ	Frequently Asked Questions	[CDS GLOS]
FFP	Firm Fixed Price	[EO OPS GLOS]
FOS	Flight Operations Segment	[ACRONYMS] [EO OPS GLOS]
FPx	Framework Program x	[CDS GLOS]
FTP	File Transfer Protocol	[CDS GLOS] [EO OPS GLOS]
FTS	Fast Track Services	[CDS GLOS]
FUP	Fixed Unit Price	[EO OPS GLOS]
GAP	Global Activity Plan	[EO OPS GLOS]
GAS	GMES Atmospheric Service	[CDS GLOS]
GCA	GSC Coordinated Archive	[CDS GLOS]

Acronym	Description	References
GCC	GSC Coordinated Catalogue	[CDS GLOS]
GCM	GMES Contributing Mission	[CDS GLOS]
GCP	Ground Control Point	[CDS GLOS]
GEC	Geographic Corrected (Image)	[EO OPS GLOS]
GEST	GMES Emergency Satellite Tasking	[CDS GLOS]
GMES	Global Monitoring for Environment and Security	[CDS GLOS] [ACRONYMS]
GNSS	Global Navigation Satellite Systems	[ACRONYMS]
GOCE	Gravity Field and Steady State Ocean Circulation Earth Explorer	[EO OPS GLOS]
GODIS	Grid-on-Demand Infrastructure and Services	[EO OPS GLOS]
GOME	Global Ozone Monitoring Experiment	[EO OPS GLOS]
GOMOS	Global Ozone Monitoring by Occultation of Stars	[EO OPS GLOS]
GS	Ground Segment	[CDS GLOS] [ACRONYMS]
GS	Ground Segment/System	[EO OPS GLOS]
GSC	GMES Space Component	[CDS GLOS]
GSDA	Ground Segment and Data Access	[CDS GLOS]
GSIOF	Ground Segment Initial Operations Plan	[EO OPS GLOS]
GSOP	Ground Segment Operations Plan	[EO OPS GLOS]
GSOV	Ground Segment Operational Validation	[ACRONYMS] [EO OPS GLOS]
GSP	GMES Service Project/Provider	[CDS GLOS]
GSP	Ground Segment Planning	[EO OPS GLOS]
HDDR	High Density Digital Recorder	[EO OPS GLOS]
HDDT	High Density Digital Tape	[EO OPS GLOS]
HLOP	High Level Operations Plan	[ACRONYMS] [EO OPS GLOS]
HMA	Heterogeneous Mission Accessibility	[CDS GLOS]
H/W	Hardware	[ACRONYMS]
IAT	Interactive Analysis Tool	[EO OPS GLOS]
ICD	Interface Control Document	[EO OPS GLOS]
ICV	Instrument Calibration and Verification (PDGS element)	[PDGS GLOS]
IDL	Interactive Data Language	[EO OPS GLOS]
IECF	Instrument Engineering Calibration Facility	[EO OPS GLOS]
IIM	Image Information Mining	[EO OPS GLOS]
ING	Ingestion (PDGS element)	[PDGS GLOS]
INV	Inventory Facility (ENVISAT)	[EO OPS GLOS]
IODD	Input Output Description Document	[EO OPS GLOS]
IPF	Instrument Processing Facility	[EO OPS GLOS]
IPF	Instrument Processing Facility (PDGS component)	[PDGS GLOS]
IQL	Interferometric Quick Look	[EO OPS GLOS]
ISS	Interface Sub-set System	[EO OPS GLOS]
IT	Information Technology	[ACRONYMS]
ITIL	Information Technology Infrastructure Library	[EO OPS GLOS]
ITT	Invitation to Tender	[EO OPS GLOS]
KPI	Key Performance Indicator	[ACRONYMS]
LAN	Local Area Network	[EO OPS GLOS]
LEOP	Launch & Early Orbit Phase	[ACRONYMS]
LIB	Data Library (PDGS element)	[PDGS GLOS]
LMCS	Land Monitoring Core Service	[CDS GLOS]
LOG	Logging (PDGS element)	[PDGS GLOS]
LoL	Limit of Liability	[EO OPS GLOS]
LRAC	Low Rate Reference Archive	[EO OPS GLOS]
LTA	Long Term Archive	[CDS GLOS]

Acronym	Description	References
M&C	Monitoring and Control	[CDS GLOS]
MASS	Multi-Application Support Service System	[EO OPS GLOS]
MCF	Mission Control Facility (ENVISAT)	[EO OPS GLOS]
MCS	Marine Core Service	[CDS GLOS]
MERIS	Medium Resolution Image Spectrometer	[EO OPS GLOS]
MIMS	Mission Interface Monitoring System	[EO OPS GLOS]
MIMS	MERIS Information Mining Services	[EO OPS GLOS]
MIP	Mission Implementation Plan	[ACRONYMS] [EO OPS GLOS]
MIPAS	Michelson Interferometer for Passive Atmospheric Sounding	[EO OPS GLOS]
MIRD	Mission Implementation Requirements Document	[ACRONYMS]
MMFI	Multi Mission Facility Interface	[EO OPS GLOS]
MMOHS	Multi Mission Order Handling System	[EO OPS GLOS]
MMS	Multi Mission System	[EO OPS GLOS]
MON	Monitoring and Alarm (PDGS element)	[PDGS GLOS]
MOP	Mission Operation Plan	[EO OPS GLOS]
MOS	Marine Observation Satellite	[ACRONYMS]
MPL	Mission Planning (PDGS element)	[PDGS GLOS]
M-PAS	Multi-Satellite Pre-Planning and Analysis System	[EO OPS GLOS]
MTA	Medium Term Archive	[CDS GLOS]
MUIS	Multi-mission User Interface System	[EO OPS GLOS]
MUSF	Multi-mission User Service Facility (see USF also)	[EO OPS GLOS]
NCR	Non-Conformance Report	[EO OPS GLOS]
NRT	Near Real Time	[CDS GLOS] [EO OPS GLOS]
NRT1h	Near Real Time 1 hour	[CDS GLOS]
NRT3h	Near Real Time 3 hours	[CDS GLOS]
NOAA	National Oceanic and Atmospheric Administration	[ACRONYMS]
NRT	Near Real Time	[CDS GLOS] [ACRONYMS]
NRT1h	Near Real Time 1h (it refers to the availability of GCM products within 1 hour after downlink at a pre-defined user pick-up point)	[CDS GLOS]
NRT3h	Near Real Time 3h (it refers to the availability of GCM products within 3 hours after sensing at a pre-defined user pick-up point)	[CDS GLOS]
NTC	Non Time Critical	[ACRONYMS]
OD	Order Desk	[PDGS GLOS]
ODA	Online Data Access (PDGS element)	[PDGS GLOS]
OH	Order Handling	[PDGS GLOS]
OHS	Order Handling System (see also MMOHS)	[PDGS GLOS]
OPE	Operating (PDGS element)	[PDGS GLOS]
ORD	Order Handling (PDGS element)	[PDGS GLOS]
OSHS	On-line Service Harmonisation and Streamlining Project	[EO OPS GLOS]
PAD	Processing Archiving and Dissemination	[PDGS GLOS]
PCF	Products Quality Control Facility (ENVISAT)	[EO OPS GLOS]
PDAS-M	Payload Data Acquisition Station at Matera	[EO OPS GLOS]
PDCC	Payload Data Control Centre	[EO OPS GLOS]
PDGS	Payload Data Ground Segment	[CDS GLOS] [ACRONYMS] [PDGS GLOS] [EO OPS GLOS]
PDHS-E	Payload Data Handling Station at ESRIN	[EO OPS GLOS]
PDHS-K	Payload Data Handling Station at Kiruna	[EO OPS GLOS]
PDS	Payload Data System/Segment	[EO OPS GLOS]
PEP	Payload Exploitation Plan	[EO OPS GLOS]

Acronym	Description	References
PF	Processing Facility (ENVISAT)	[EO OPS GLOS]
PGS	Payload Ground Segment	[EO OPS GLOS]
PIAT	Project Impact Assessment Tool	[EO OPS GLOS]
PLSO	Post Launch Support Office	[EO OPS GLOS]
PMP	Project Management Plan	[ACRONYMS]
POD	Precise Orbit Determination	[ACRONYMS]
PRC	Production Control (PDGS element)	[PDGS GLOS]
PRI	Precision Image	[EO OPS GLOS]
PRO	Processing System (PDGS element)	[PDGS GLOS]
PVA	Product Verification and Performance Analysis (PDGS element)	[PDGS GLOS]
QC	Quality Control	[CDS GLOS] [EO OPS GLOS]
QC	Quality Check (PDGS component)	[PDGS GLOS]
QMS	Quality Management System	[EO OPS GLOS]
QOS	Quality of Service	[ACRONYMS] [EO OPS GLOS]
QUARC	Quality Analysis and Reporting Computer (ENVISAT)	[EO OPS GLOS]
QWG	Quality Working Group	[EO OPS GLOS]
RDBMS	Relational Database Management System	[EO OPS GLOS]
REC	Reception System (PDGS element)	[PDGS GLOS]
REP	Reporting (PDGS element)	[PDGS GLOS]
RF	Radio Frequency	[EO OPS GLOS]
RfD	Request for Deviation	[ECSS]
RfW	Request for Waiver	[ECSS]
RGT	ROP Generation Tool	[EO OPS GLOS]
RID	Review Item Discrepancy	[EO OPS GLOS]
ROP	Reference Operation Plan	[EO OPS GLOS]
RSE	Reference Swath Editor	[EO OPS GLOS]
RTD	Research and Technology Development	[EO OPS GLOS]
RX	Reception/Receiver	[EO OPS GLOS]
SAR	Synthetic Aperture Radar	[EO OPS GLOS]
SaVoir	Swath Acquisition Viewer; Windows stand-alone application for analyzing potential sensing opportunities of Earth Observation Satellites	[EO OPS GLOS]
SCIAMACHY	Scanning Imaging Absorption Spectrometer for Atmospheric Chartography	[EO OPS GLOS]
S/C	Spacecraft	[CDS GLOS] [ACRONYMS]
SC	Service Component	[CDS GLOS]
SCR	Software Change Request	[EO OPS GLOS]
SDGT	Subscription Definition File Generation Tool	[EO OPS GLOS]
SDS	Station Data Dissemination (Multi-Mission)	[EO OPS GLOS]
SEC	Security Pilot Service	[CDS GLOS]
SLA	Service Level Agreement	[CDS GLOS] [EO OPS GLOS]
SLCI	Single Look Complex Interferometric	[EO OPS GLOS]
SLO	Service Level Objective	[CDS GLOS]
SP	Service Provider	[CDS GLOS]
SPEVAL	Spacecraft Evaluation System	[EO OPS GLOS]
SPOT	Satellite Probatoire d'Observation de la Terre	[ACRONYMS]
SPPA	Sensor Performance, Product Algorithms (PDGS domain)	[PDGS GLOS]
SPR	Software/System Problem Report	[EO OPS GLOS]
SSE	Service Support Environment	[EO OPS GLOS]
STC	Standard Time Critical	[ACRONYMS]

Acronym	Description	References
STC	Station Control (PDGS element)	[PDGS GLOS]
SVT	Swath Visualisation Tool	[EO OPS GLOS]
S/W	Software	[ACRONYMS]
SW	Software	[EO OPS GLOS]
S1	GMES Sentinel-1	[CDS GLOS]
S2	GMES Sentinel-2	[CDS GLOS]
S3	GMES Sentinel-3	[CDS GLOS]
TBC	To Be Confirmed	[CDS GLOS]
TBD	To Be Defined	[CDS GLOS] [ACRONYMS] [EO OPS GLOS]
TBU	To Be Updated	[CDS GLOS]
TBW	To Be Written	[CDS GLOS]
TEB	Tender Evaluation Board	[EO OPS GLOS]
TPM	Third-Party Mission	[ACRONYMS] [EO OPS GLOS]
TX	Transmission/Transmitter	[EO OPS GLOS]
UET	User Earth Terminal	[EO OPS GLOS]
UIS	User Information Service (PDGS element)	[PDGS GLOS]
UMA	User Management (PDGS element)	[PDGS GLOS]
UACC	User Access, Coordination and Control [same as USMP] (PDGS domain)	[PDGS GLOS]
USCF	User Service Co-ordination Facility (ENVISAT)	[EO OPS GLOS]
USF	User Service Facility	[EO OPS GLOS]
USH	User Support and Help Desk (PDGS element)	[PDGS GLOS]
USMP	User Services and Mission Planning [same as UACC] (PDGS domain)	[PDGS GLOS]
VCDU	Virtual Channel Data Unit (AF)	[ENVISAT GLOS]
VRES	Virtual Reality Earth Observation Studio	[EO OPS GLOS]
VRT	Virtual Reality Theatre	[EO OPS GLOS]
WAN	Wide Area Network	[EO OPS GLOS]
WP	Work Package	[EO OPS GLOS]

Table 2: Acronyms