

COPERNICUS SPACE COMPONENT DATA ACCESS PORTFOLIO: DATA WAREHOUSE 2024

Prepared by ESA

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CHANGE LOG

Copernicus Contributing Mission Activity: Data	Issue Nr	Revision Number	Date
Access Portfolio for 2024			
Insertion of 2023 quotas for on-demand (ADDitional)	3	0	10/02/2023
datasets of eligible users, new missions and new lead			
time/delivery timeliness			
Insertion of 2024 quotas for on-demand (ADDitional)	3	1	04/03/2024
datasets of eligible users.			

CHANGE RECORD

Issue Number 3	Revision Number	1	
Reason for change	Date	Pages	Paragraph(s)
New quota allocation for 2023	15/12/2022		4.5
Addition of Pleiades Neo and Vision-1 to data offer	15/12/2022	online	
Addition of COSMO-SkyMed Second Generation to	15/12/2022	<u>online</u>	
data offer			
Changes applied to Tasking Lead Times and delivery	15/12/2022	Table 8: Options	
timeliness in both Rush and Standard modes		available for	
		programming notice,	
		Table 10: Delivery	
		timeliness applicable	
		to data requests	
Changes applied to VHR1 SAR portfolio: addition of	04/03/2024	CCM online	
Dwell mode by Iceye , removal of GTR product by			
Iceye			
New quota allocation for 2024		p. 21 and CCM online	4.5
Change of access point for Sentinels data	04/03/2024	p. 11 and 25	3.3.1 and 5.1



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1. INTRODUCTION

The Data Access Portfolio Document (DAP) presents the Copernicus Space Component data offer and related data access services (mainly focusing on the Copernicus Contributing Missions) made available to the Copernicus Users in response to their Earth Observation data requirements [RD-3]. This data and services offer is based on agreements made with the Copernicus Contributing Mission Entities (CCMEs) and on the implementation of the Copernicus Space Component Data Access (CSCDA) system for the coordination of the end-to-end scenarios defined for the data provision.

This version of the DAP informs the Copernicus Data Users about the two groups of user needs and corresponding dataset types available:

- The systematic (previously named CORE) datasets with pre-defined characteristics generated primarily for the needs of the Copernicus Land, Marine and Atmosphere Monitoring Services, currently in production or already available in the centralised archive; they are the fixed part of the data offer.
- The on-demand (previously named ADDitional) datasets, acquired mostly in rush mode over areas affected by natural and man-made disasters or crisis situations, primarily for the needs of the Copernicus Emergency Management and Security Services continuously populated as a result of the on-demand requests from the eligible Copernicus users through a quota mechanism. They are the flexible part of the data offer.

The document also presents high level information about the data access conditions (users' eligibility, etc.). Detailed information as well as operational news are instead available in the Copernicus Contributing Missions Online web site at https://spacedata.copernicus.eu/.

1.1. Reference Documents

[RD-1] → Copernicus Data Access: ESA-User Licence

[RD-2]→ Mission-specific Annex: Amendments to the CSCDA ESA – User Licence

[RD-3] → Data Warehouse Requirements V2.6 - Copernicus Data Access Specifications of the space-based Earth Observation needs for the period 2014-2022

1.2. Abbreviations and Definitions



A detailed list of abbreviations as well as definitions of recurrent key terms used in the document can be found in Annex 1: Abbreviations and definitions.

1.3. Document overview

The present document is divided into the following sections:

Section 1: *Introduction*, describing the purpose of the document, reference documentation, the list of acronyms and some definitions used within the document.

Section 2: Quick path to CCMEs data access, presenting the steps to be performed by users to access EO data from the Copernicus Space Component.

Section 3: *Access Conditions*, presenting the various Users Categories and their access rights, as well as the registration and license signature processes.

Section 4: Overview of the Data Offer, providing an overview of both the CORE (Predefined) and ADDitional (On-Demand) Datasets.

Section 5: How to access Systematic and On-demand Datasets, presenting the mechanism to access data from the Copernicus Space Component.

Section 6: How to submit a Data Request describing the process related to data ordering, for those having an allocated quota.

Section 7: *User Support Services*, outlining the channels of support offered to users.

Annex 1: Abbreviations and definitions

Annex 2: Data Access rights to Copernicus Contributing Mission Datasets (systematic and ondemand)



2. QUICK PATH TO CCM DATA ACCESS

2.1. For all Copernicus users

The diagram in Figure 1 presents the four steps to be followed for the access to Copernicus Contributing Mission data available within the centralised PRISM archive, either as part of the Systematic (CORE) or on-demand (ADDitional) Datasets

Identify your User Category

Depending on one's User Category, each Copernicus User may access the Datasets in Discovery, View and/or Download mode; see section 3.1 for more information.

2

Register On-Line and accept ESA-user license

Create your user account, specifying your User Category, and accept the license defining the rights to use and distribute data, according to the instructions in section 3.3

3

Identify Data of Interest

The Data Offer is made of systematic (CORE) datasets and on-demand (ADDitional) datasets described respectively in section 4.4 and section 4.5



Download Data

Use the Panda catalogue or a traditional FTP access to discover the available datasets and download the data of interest; see section 5 for data access information.

Figure 1:Steps to be performed for access to data in the PRISM archive

2.2. For Copernicus Users having an allocated quota

In addition to the access to data already available in the PRISM archive, eligible users (primarily the Copernicus Services) may also submit EO data requests for new data acquisitions that will subsequently populate the same archive with additional data products to become available via the process described in section 2.1. The diagram in Figure 2 presents the four steps to be followed for the access to data via submission of EO data request.



1

Register On-Line and accept ESA-user license

If you belong to a Copernicus Service or a Union Research Project, you may register on line to create your user account and accept the license defining the rights to use and distribute data; see section 3.3 for instructions.

2

Obtain a quota allocation

The European Commission collects users' needs once a year, as per section 6.1

3

Submit EO data requests

You can submit EO data requests via the PRISM interface for data delivery within the on-demand (ADDitional) Datasets. More details are available in section 6

4

Download Data

Use the Panda catalogue or a traditional FTP access to discover the available datasets and download the data of interest; see section 5 for data access information.

Figure 2: Steps to be performed for requesting EO data within the on-demand Datasets

3. ACCESS CONDITIONS

3.1. Copernicus Users Categories and ESA-user license

Datasets are procured from the Copernicus Contributing Missions with associated licensing conditions that allow one or more categories of Copernicus Users to access the data. The ESA-User Licence [RD-1] defines the list of Copernicus User Categories eligible to access one or more datasets from the Copernicus Contributing Missions and the Terms and Conditions for the data use. The following Users Categories are identified to define the access rights for access to data from the Copernicus Space Component.

- Copernicus Services [Copernicus Services]
- Institutions and bodies of the Union [Union_Inst]
- Participants to a research project financed under the Union research programmes – space [Union_Research_Projects_space]



- Participants to a research project financed under the Union research programmes – non space [Union_Research_Projects_non-space]
- Public Authority [Public_Auth]
- International Organisations and NGOs [INT_ORG_NGO]
- Public [Public]

When specific conditions apply for one Copernicus Contributing Mission, those are specified in the Mission Specific Annex [RD-2]. The latter document also contains the license conditions for the Copernicus DEM Systematic Dataset and its specific additional Users Categories:

- Providers of Copernicus third-party data and information including in-situ data [TP_Data_Providers]
- Operators of access or dissemination services for Copernicus data and information financed under the Copernicus programme [Data_Access_Services]
- Operators of Copernicus Space Infrastructure or Copernicus Services
 [Ops_SpaceInf_Services]

The acceptance of the ESA-User License is compulsory to access most of the Copernicus Contributing Missions Data (unless free and open).

3.2. Access Rights

Each User Category is granted access to the Datasets procured from the Copernicus Contributing Missions in Discovery (not specified, as applicable to all user categories), View (V) or Download (D) mode, as defined in Annex 2: Data Access rights to Copernicus Contributing Mission Datasets (systematic and on-demand).

The description and content of the Datasets are summarised in section 4. Further information is available in the Copernicus Contributing Missions Online web portal in the Data – Collections page.

Access to the Sentinel data is instead free, full and open, and therefore the datasets fulfilled by the Sentinel missions are not reported in Annex 2: Data Access rights to Copernicus



Contributing Mission Datasets (systematic and on-demand). The same unrestricted access conditions apply to Altimetry and Atmospheric Datasets listed in section 4.

Table 1 outlines, per user category, the access rights to Copernicus Contributing Missions data.

Who can access Copernicus Contributing Missions data?	Viewing data (no download)	Downloading data	Tasking satellites
Copernicus services	✓	✓	✓
EU institutions & bodies	✓	✓	
Research projects funded by EU	✓	✓	*
Public Authorities (national, regional, local)	✓	✓ *	
International organisations & NGOs	✓	*	
General public	✓		

Table 1: High level conditions to access Copernicus Contributing Missions data

^{*}Simplified table. Full details available in Annex 2: Data Access rights to Copernicus Contributing Mission Datasets (systematic and on-demand)



Table 2 outlines, per user category, the access rights to Copernicus DEM data.

Who can access Copernicus DEM data ?	90 m	30 m	10 m
Copernicus services	DOWNLOAD	DOWNLOAD	DOWNLOAD
EU institutions & bodies	DOWNLOAD	DOWNLOAD	DOWNLOAD
Research projects funded by EU	DOWNLOAD	DOWNLOAD	DOWNLOAD
Public Authorities (national, regional, local)	DOWNLOAD	DOWNLOAD	VIEW
International organisations & NGOs	DOWNLOAD	DOWNLOAD	VIEW
General Public	DOWNLOAD	DOWNLOAD	-
Third Party Data Providers *	DOWNLOAD	DOWNLOAD	DOWNLOAD
Operators of Data Access Services *	DOWNLOAD	DOWNLOAD	DOWNLOAD
Operators of Copernicus Space Infrastructures or Services *	DOWNLOAD	DOWNLOAD	DOWNLOAD

Table 2: High level conditions to access Copernicus DEM data

3.3. Registration and license signature

3.3.1. For access to Sentinel dedicated missions

A simple on-line registration is required to access Sentinels data from the Copernicus Data Space Ecosystem.

Users shall take note of the rules regulating the use and distribution of Sentinel data available in the <u>Legal Notice for Sentinel data</u>.

^{*}User categories dedicated to Copernicus DEM



3.3.2. For access to ESA and ESA TPM missions

ESA mission's data (ERS-1, ERS-2, Envisat, CryoSat and SMOS) as well as some Third Party Missions (i.e. ALOS predefined collections, Landsat, GOSAT, etc.) are fully available to Copernicus users and are free of charge. The corresponding EO data collections are made available under a free dataset policy only requiring a fast registration for data available online (free datasets) or a short proposal. More information is available at <u>Earth Online portal</u>

3.3.3. For access to other Contributing Missions

Copernicus users may access EO data from the Copernicus Contributing Missions following registration and acceptance of the ESA-user license. The process is summarised below in Figure 3, detailed in the Registration guidelines and demonstrated in the Copernicus Contributing Missions Online portal under Support - Video Gallery.

Register

Create your personal account

Provide Profile

Fill in your personal profile in the personal area and submit registration

Accept License

Read and accept the ESA-user license

Figure 3: Registration process

If a consortium of companies requests access to EO data, its coordinator is responsible for the provision and maintenance of the list of its members.



The list of users is provided to the data providers. Access restrictions may apply depending on the data provider; see under Support - FAQ - Terms and Conditions for data use <u>Missionspecific Annex</u>.



4. OVERVIEW OF THE DATA OFFER

The Copernicus Space Segment represents the geo-spatial resources for the Copernicus programme; it relies on a constellation of dedicated missions - the Sentinels - as well as on a set of EO space missions – the Copernicus Contributing Missions – contributing according to agreed operational scenarios and service levels. ESA, is entrusted by the European Commission to guarantee a harmonised data provision to the Copernicus Users, makes agreements with European and International third-party mission operators and/or commercial data providers to complement the Sentinels data offer in response to specific Copernicus Service Providers' needs, in particular for very high resolution data.

An overview of the Copernicus Contributing Missions including mission characteristics is available under Data –Contributing Missions.

4.1. Copernicus Sentinel missions

The Sentinels were developed to answer the specific needs of the Copernicus Services and their users. The EO data acquired and systematically processed contribute to the fulfilment of the datasets listed below. Sentinel-1 also contributes to rush activations via a dedicated data distribution mechanism.

All information regarding the Copernicus Sentinel missions, ground segments, data products, mission planning, data access, etc. is available in the <u>Sentinel online</u>.

4.2. ESA missions and Third-Party Missions

In addition, ESA provides access to the full archive of Heritage Missions such as ERS and Envisat as well as archive and new acquisitions from the Earth Explorers (Cryosat, SMOS, AEOLUS). Access to Third Party Missions is instead regulated by the corresponding licensing conditions. The complete ESA data offer is described in the <u>Earth Online portal</u>.

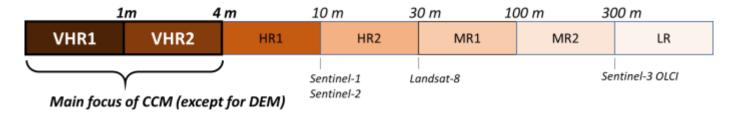
4.3. Copernicus Contributing Missions



In addition to data provided by the dedicated Copernicus Sentinel missions, the Copernicus Contributing Missions play a crucial role in delivering complementary data. There are today around 22 single satellites or satellite constellations available to fulfil the requirements of Copernicus users. The list is maintained up-to-date in the Copernicus Contributing Missions Online

web portal under Data - Contributing Missions.

They are classified primarily by sensor type (SAR or Optical) but also by resolution classes defined as follows:



- VHR1 Very High Resolution 1 where resolution <=1m
- VHR2 Very High Resolution 2 where 1m < resolution <=4m
- HR1 High Resolution 1 where 4m <resolution<=10m
- HR2 High Resolution 1 where 10m <resolution<=30m
- MR1 Medium Resolution where 30m <resolution<=100m
- MR2 Medium Resolution where 100m <resolution<=300m
- LR Low Resolution where resolution >300m

Earth Observation products are procured from the Copernicus Contributing Missions either to implement the predefined (Systematic) datasets as per requirements identified in [RD-3] or upon reception of single data requests from eligible users belonging mainly to the Copernicus Services and Union Research Projects user categories (On-demand Datasets). The resulting data offer is presented in section 4.4 and 4.5.

4.4. Systematic datasets



They are the fixed part of the data offer, typically predefined large coverages, identified to cover the needs of the Copernicus Services and other activities requesting Earth Observation data, like Union financed research projects and the activities of Union agencies who are eligible users (EEA, SatCen, etc.). Systematic datasets requirements are defined in [RD-3].

The list of Systematic datasets is presented below; details are available in the Copernicus Contributing Missions Online web portal under Data - <u>Collections</u>.

4.4.1. Free and open Datasets

Copernicus Sentinels data, as well as ESA heritage and Earth Explorer missions and few ESA Third Party Missions are available for the fulfilment of datasets requiring global or regional systematic coverage as shown in tables 3 to 5 below.

Dataset ID	Dataset title	Contributing Mission
HR1/HR2_OPT_GLOBAL	Optical HR1 and HR2 worldwide coverage	Sentinel-2
MR_OPTICAL_GLOBAL	Optical MR2 worldwide coverage	Sentinel-3 OLCI 300 m
LR_OPTICAL_GLOBAL	Optical LR worldwide coverage	Sentinel-3 OLCI up to 1.2 km
HR2-MR1_SAR_GLOBAL	SAR MR1 worldwide coverage	Sentinel-1
MR1_SAR_GLOBAL_WM	SAR Wave MR1 worldwide	Sentinel-1 Wave mode (coverage (when not in conflict with MR SAR Global and Sea Ice modes)
LR_SAR_GLOBAL	SAR LR worldwide coverage	Sentinel-1
MR2_ALTIMETRY	SAR Altimetry MR2 worldwide coverage	Sentinel-3 SRAL
HR2-MR1_SAR_SEA_ICE	Daily monitoring of sea ice areas	Sentinel-1

Table 3:Fixed datasets implemented by Copernicus Sentinel missions



Dataset title	Copernicus Sentinel missions	ESA and ESA TPM missions
Data for aerosol monitoring and forecasting	Sentinel-3 (SLSTR), Sentinel-5P	Envisat, GOSAT, ODIN
Data for sulphur dioxide (SO2) atmospheric composition monitoring and forecasting	Sentinel-5P	Envisat, GOSAT
Data for formaldehyde (HCHO) atmospheric composition monitoring and forecasting	Sentinel-5P	Envisat,
Data for Ozone (O3) atmospheric composition monitoring and forecasting	Sentinel-5P	Envisat, ERS, GOSAT, ODIN
Data for Carbon Monoxide (CO) atmospheric composition monitoring and forecasting	Sentinel-5P	Envisat
Data for Carbon Dioxide (CO2) atmospheric composition monitoring and forecasting		Envisat,GOSAT
Data for Methane (CH4) atmospheric composition monitoring and forecasting	Sentinel-5P	Envisat, GOSAT
Data for Nitrogen Dioxide (NO2) atmospheric composition monitoring and forecasting	Sentinel-5P	Envisat, ERS, ODIN

Table 4:Atmospheric datasets implemented by Sentinels or ESA missions

Dataset title	Copernicus Sentinel missions	ESA and TPM Missions
Global/Regional Systematic Ocean Colour data	Sentinel-3 (OLCI)	Envisat, Oceansat-2
Systematic Global and Regional sea surface temperature data	Sentinel-3 (SLSTR)	Envisat, ERS
Systematic Global and Regional Altimetry / Sea Level data		Envisat, ERS, Cryosat
Soil moisture		SMOS L2
Brightness temperature	Sentinel-3 (SLSTR)	SMOS L1
Systematic Global and Regional land surface temperature data	Sentinel-3 (SLSTR)	

Table 5: Other free and open Systematic datasets



4.4.2. Datasets procured from CCMEs, subject to access restrictions

Datasets listed in Table 6 have been generated along the years through the procurement of EO data from Copernicus Contributing Missions and therefore they are characterised by more restrictive access rights defined in section 3.2 above.

The detailed description of the content of each dataset is available in the Copernicus Contributing Missions Online web portal, under Data - Collections.



Detect ID	Detect ID Detect chart description		
Dataset ID	Dataset short description	Missions	
	OPTICAL COVERAGES		
VHR_IMAGE_2021	One cloud-free very high resolution optical coverage of EEA-39 (including islands and French DOMs) acquired within predefined windows corresponding to	Pleiades-1A/1B, SuperView-1, WorldView-2, WorldView-3, Kompsat-3/3A, GeoEye-1	
	the vegetation season in 2020-2021-2022 (with an instrument GSD resolution from 2 to 4 meters)	Back-up Missions:	
		SPOT-6/7 (TrueSharp), Geosat- 2, SuperView-2, Vision-1, TripleSat	
		Prime Missions:	
VHR_IMAGE_2018	One cloud-free very high resolution optical coverage of EEA-39 (including islands and French DOMs) acquired within predefined windows corresponding to the vegetation season in 2017-2018-2019 (with an	Pleiades-1A/1B, SuperView-1, Kompsat-3/3A, PlanetScope	
	instrument GSD resolution from 2 to 4 meters)	Back-up Missions:	
		SPOT-6/7, TripleSat and Geosat-2	
VHR_IMAGE_2018_ ENHANCED	Complementary cloud-free very high resolution optical coverage of a subset of EEA-39 with same specifications as VHR_IMAGE_2018	Pleiades-1A/1B, SuperView-1, Kompsat-3/3A	
		Source DEMs:	
DEM_VHR_2018	Digital Elevation Model (DEM) to be used as the common elevation reference for the ortho-rectification of the VHR_IMAGE_2018 products	 ALOS-DEM Reference3D ® SRTM RGEAlti® 	
VHR_IMAGE_2015	One cloud-free very high resolution optical coverage of EEA-39 (including islands and French DOMs) acquired within predefined windows corresponding to the vegetation season in 2014-2015-2016 (resolution <=1m PAN, ±2-4 m MS)	Pleiades-1A/1B- 1A/1B,GeoEye-1, WorldView-2, WorldView-3, Geosat- 2,SPOT-6/7	
VHR1-2 Urban Atlas 2012	One cloud-free very high resolution optical coverage of 310 Large Urban Zones (LUZ) acquired mainly between February 2011 and October 2013 (40 cm PAN and 120 cm MS)	WorldView-2	



DWH MG2b CORE 30 (VHR Urban Atlas 2006- 2009)	One coverage of 318 Large Urban Zones (LUZ) acquired with VHR missions (resolution: 2.5m pansharpened) between 2006 and 2009	SPOT-4/5 with gap filling from QuickBird, RapidEye, IKONOS-2 and ALOS AVNIR,	
DWH_MG2b_CORE_03	One cloud-free very high resolution optical coverage of EEA-39 acquired in 2011-2012-2013 complemented by a coverage of Riparian zones	SPOT-5, SPOT-6 FORMOSAT-2	
HR_IMAGE_2015	Two cloud-free high-resolution optical coverages of EEA-39 (including islands and French DOMs) acquired within predefined windows corresponding to the vegetation season in 2014-2015	SPOT-5, Resourcesat- 2 Gap filling with Sentinel-2A	
DWH MG2 CORE 01 (Image2012)	Two cloud-free Optical HR Pan coverages of EEA-39 acquired within predefined windows from 2011 to 2013	IRS-P6, SPOT-4/5	
DWH_MG2_CORE_02 (Image2006 and Image2009)	Two cloud-free HR Pan EAA-39 coverages acquired within predefined windows corresponding to the vegetation season in both reference year 2006 and in reference year 2009	IRS-P6, SPOT-4/5	
DWH_MG2_CORE_09	One cloud-free (max. 20%) HR2 Sub-Saharan Optical coverage 2011-2013	Geosat-1	
EUR_HR2_MULTITEMP	Seven HR2 monthly coverages of EEA-39 during the 2015 vegetation season (April to October 2015)	Geosat-1 and UK- DMC2	
DWH MG2-3 CORE 08 (European monthly MR composites)	Eight MR monthly coverages of Europe from March to October in 2011 plus 6 coverages from March to August and partial coverage in September 2012	Resourcesat-1/2	
MR IMAGE 2015	Eight MR1 monthly coverages of Europe from March to October 2014	Resourcesat-2	
SAR COVERAGES			
HR2-MR1_SAR_SEA_ICE	Daily monitoring of CMEMS sea ice zones of interest (Baltic, Eurarctic, Arctic Ocean, Greenland and Antarctic) with SAR missions (resolution ≥5m and ≤ 100m)	Radarsat-2, TerraSAR-X, COSMO- SkyMed and PAZ complementing S-1 coverage and Iceye	
DWH_MG1_CORE_11	Sea Ice monitoring 2011-2014	Radarsat-2, COSMO-SkyMed, TerraSAR-X, TanDEM-X	



DEM DATASETS		
Copernicus DEM:	Digital Surface Model (DSM) provided in 3 different	TanDEM-X
- COP_DEM_GLO-90	resolutions (90m, 30m, 10m) with varying geographical extent (EEA: European and GLO:	
- COP_DEM_GLO-30	global) and varying format (INSPIRE, DGED, DTED)	
- COP_DEM_EEA-10		

Table 6: Systematic datasets procured from Copernicus Contributing Missions

4.5. On-demand datasets

The on-demand Datasets are the variable part of the data offer, flexible enough to accommodate the specific requirements of the Copernicus users being allocated a yearly quota to submit EO data requests (e.g. geographical area, processing levels, lead times and delivery mechanisms to be selected at ordering time among the proposed ones for the specific dataset). They are typically related to the Emergency Management Service and Security Services activities, which require rush delivery of specific data over critical areas (new acquisitions or archive data). However, these datasets are also available for non-rush applications, for which requirement details are only known at short notice (e.g. areas of interest, time window of interest, data type, etc.).

The eligibility of Copernicus Users to order EO data under a given on-demand dataset is established by the European Commission who assigns a quota expressed in km2 per data type on a yearly basis after assessment of needs against the available budget. The allocation per Copernicus Project and per dataset for the period 16 December 2023 to 15 December 2024 is reported in the Copernicus Contributing Missions Online portal under Data - Ordering ADD quotas 2024.

The data delivered upon data requests from eligible users are stored in the centralized PRISM archive and thereafter made available to Copernicus eligible users as per access rights defined in section 3.2.

Each on-demand Dataset represents:

A resolution class (see section 4.3)



- A service type: Rush or Standard, Archive or New tasking

- A mission type: Optical or SAR

Table 7 presents the list of datasets defined to manage the data ordering by Copernicus users.

	Rush	datasets	Standard da	atasets	
Resolution Class	Archive Rush	New Acquisition Rush	Archive Standard	New Acquisition Standard	
Optical VHR1	ADD_003a	ADD_004a	ADD_011a	ADD_012a	
Optical VHR2	ADD_003b	ADD_004b	ADD_011b	ADD_012b	
Optical HR1	ADD_001a	ADD_002a	ADD_009a/ADD_009c1	ADD_010a	
Optical HR2	ADD_001b	ADD_002b	ADD_009b	ADD_010b	
Optical MR1	ADD_021a	ADD_022a	ADD_020a	ADD_018a	
SAR VHR1	ADD_007a	ADD_008a	ADD_015a	ADD_016a	
SAR VHR2	ADD_007b	ADD_008b	ADD_015b	ADD_016b	
SAR HR1	ADD_005a	ADD_006a	ADD_013a	ADD_014a	
SAR HR2	ADD_005b	ADD_006b	ADD_013b	ADD_014b	
SAR MR1	ADD_023a	ADD_024a	ADD_019a	ADD_017a	

Table 7: List of on-demand Datasets reflecting organisation per data type and resolution

For each dataset, one or more CCMEs can propose one or more missions that satisfy the corresponding combination of dataset characteristics: mission type/resolution class and service type. The full list of missions contributing to each dataset is available in the Copernicus Contributing Missions Online web portal under Data – Ordering On-demand datasets (relevant links in Resolution Class column of Table 7). Similarly, the contribution of each mission can be found under Data - Contributing Missions.

¹ For ordering Euro-Maps 3D DSM only



5. HOW TO ACCESS SYSTEMATIC AND ON-DEMAND DATASETS

The Copernicus Contributing Missions Access Support Functions and Platform (PRISM) is the core of the CSCDA infrastructure, developed by ESA for a harmonized access to the Contributing Missions data. It is in charge of coordinating the data flow between the data providers and the Copernicus Users, through the implementation of predefined datasets and the processing of asynchronous data requests according to the established agreements with CCMEs. PRISM offers the interface for users to submit their data requests as well as for the placement of the corresponding orders to CCMEs, it supports the dissemination of multimission collections and provides a dedicated storage for CCMEs long-term data preservation. Data from the systematic global missions, including the Sentinels, are instead not duplicated in the PRISM archive but kept in the mission ground segment archive.

Further details are available in the Video Gallery.



Figure 4 depicts where to find the data and how to access them.

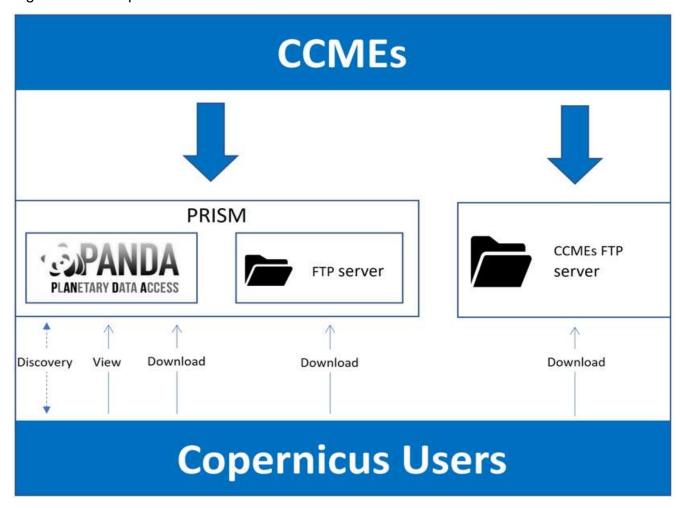


Figure 4: Where to find CSCDA data and how to access them



5.1. Access to Copernicus Sentinel data

The Copernicus Sentinel data are systematically processed and made available via the Copernicus Data Space Ecosystem.

For further information, see the Data Access page at: Sentinel data access.

5.2. Access to ESA and Third-Party Missions

Available ESA EO data collections and Third Party Missions collections and information on the "List of available products" can be found at: <u>Earth Online portal</u>.

5.3. Access to Copernicus Contributing Missions data

The access to Copernicus Contributing Missions offers 3 paths:

- PANDA (PIANetary Data Access) catalogue
- FTP to PRISM on line repository
- FTP access to CCMEs repository

5.3.1. Panda catalogue and download tool

Copernicus users may browse the PANDA (PlANetary Data Access) catalogue as anonymous users, to discover the data available in the PRISM archive (predefined datasets or data purchased on-demand, not subject to restrictions).

For data download, users shall sign in with the SSO account generated during the registration process and browse the PRISM catalogue. The archive can be searched by dataset or by mission.

Visibility of the CCMEs native catalogues is also implemented. In this case, there is no possibility to download data.

The PANDA catalogue is accessible at https://panda.copernicus.eu/.



5.3.2. FTP access to PRISM online repository

The PRISM archive is also accessible via FTP. This is the recommended option for downloading large amount of data like the predefined coverages. The users access the PRISM online repository with their SSO account created during the registration process. Further information is available in the Copernicus Contributing Missions Online web portal in Data Download or under Support - Video Gallery FTP.

5.3.3. Direct access to CCMEs repository

When stringent timeliness delivery requirement applies (e.g. rush order or sea ice monitoring purposes), direct access to CCMEs servers (product available on CCME FTP server) is granted to users having ordered the EO data.

Data access accounts are User or Service project as well as CCME specific and are provided at ordering start-up.



6. HOW TO SUBMIT A DATA REQUEST

Copernicus users eligible to submit a request for EO data (see below section 6.1) shall follow the process described in Figure 5.

1

Quota allocation

- User's request validated by European Commission (yearly)
- System configuration with allocated quota

2

<u>Data request submission and processing</u>

- Data request submission via the personal area, including all order parameters
- Data request processing by SCI operators
- Data dissemination by CCME

Figure 5: Data request process

6.1. Quota management

6.1.1. Quota allocation

Copernicus users having received from the European Commission an allocated quota for the period of interest can submit EO data requests.

The assigned quota is an <u>indicative</u> number of square kilometres (<u>km</u>²) of data available within a dataset to a single Copernicus Project/user. Quota allocation is performed typically on a yearly basis and the 2024 quota assignments are available in the Copernicus Contributing Missions Online web portal under Data - Ordering <u>ADD quotas 2024.</u>

ESA and ESA Third Party Missions are not subject to quota allocation as access is full, open and free.



The PRISM system is configured with the allocated quotas, allowing the users to place a data request on datasets for which quota is available. Upon data delivery, for each data request, the quota consumption is recorded and the newly available quota is reported both in the PRISM personal area (using the Dataset/Browse functionality) and monthly in the Copernicus Contributing Missions Online web portal under Data - Ordering Quota Consumption.

Users are responsible for managing their assigned quotas.

6.1.2. Quota consumption

The quota consumption depends on:

- (a) The actual number of square kilometers delivered over the AOI; please note that CCMEs apply a minimum order size and minimum AOI incremental size for each mission and type of product; details per mission, instrument mode and product type are Available under Data - Ordering - Quota Consumption Minimum-Order-Size.
- (b) The actual cost of the product delivered; within a dataset, the cost of the individual product may vary depending on mission and order parameters (e.g. orthorectification, faster delivery, etc.). The actual data cost is monitored on a monthly basis to calculate the budget consumption. In case the assigned target is reached, the corresponding user/project will be informed.

6.1.3. Quota revision

In case a Copernicus User requires an update to the assigned quota during the year, the following process applies:

- The user shall contact the Account Managers, the dedicated interface for issues related to the data offer, in order to define and justify the new requirements
- The Account Manager will analyse the request and, in case of major deviation, request agreement from the Commission.
- If accepted, the new quota will be implemented



In case the user submits a request that supersedes the available quota, the SCI (Services Coordinated Interface) will cater for the authorisation of the deviation from the Account Manager.

6.2. Ordering with standard on-demand Datasets

The standard on-demand datasets are non-rush datasets populated by on-demand standard user requests for new or archived data. Eligible Copernicus users with quota assigned to the required dataset shall submit a data request via the "Standard Data Request" interface after login to Copernicus Contributing Missions Online <u>portal</u>. The flow of activities related to the ordering within standard on-demand datasets is outlined under Support - Video Gallery: How to submit a Standard data request online <u>Data Request</u>.



6.3. Ordering with rush on-demand Datasets

Only authorised users are entitled to submit requests for rush delivery of new or archived data covering a disaster area, including one-off or repetitive (crisis monitoring) rush satellite tasking, processing and NRT dissemination. The rush data requests are managed according to dedicated procedures executed by the Rapid Emergency Activation for Copernicus Tasking (REACT) team within the Services Coordinated Interface (SCI).

The REACT service is operated by ESA to manage the requests for rush delivery of new and archived imagery covering a wide range of emergency situations throughout the world upon request from eligible Copernicus Services (mainly the Emergency Management Service and Security Services). The service is available 24 hours a day, 365 days a year. Most of the CCMEs also offer a 24x7 customer service. The service hours for the handling of rush orders, the deadlines to receive confirmed rush tasking requests (cut-off times) and expected delivery timeliness are available under Data - Ordering - Rush ordering options Rush-service support.

The flow of activities related to the ordering within rush on-demand datasets is outlined under Support - Video Gallery: How to submit a SPERF online Submit a SPERF.

6.4. Orders parameters

The dataset name includes the information about the required data type (SAR or Optical), resolution class (VHR1, etc) and service type (Rush or Standard, Archive or New acquisition), At order submission the following order parameters shall be specified, in most cases by the user but also automatically set by the system:

- CSP (Copernicus Service Project of affiliation) for both Standard and Rush modes
- AOI (Area of Interest definition) for both Standard and Rush modes



• Standard mode

- Delivery Timeliness (Normal, Fast 24)
- Data type: Archive/New
- Resolution type
- Dataset
- Processing level
- Acquisition window start and stop time with frequency of overpasses repetition

Rush mode

- Rush Details: activation number, event title and date and disaster type
- Acquisition strategy: archive or new data one-off or crisis monitoring
- Data specification: resolution type: (VHR1 to MR1), Optical or SAR, dataset
- Polarisation/bands, projections, processing level, min-max resolution

The above parameters will determine the product and service provided, and therefore the cost of the data request. Further details are provided below for the PRISM specific parameters.

6.4.1. Area of interest

The size of the area of interest has an impact on quota consumption. See section 6.1.2 above.

6.4.2. Time window

For a new acquisition, the target start time of the acquisition window defined by the user determines the satellite tasking lead time for the data request. The options are defined in Table 8 below.

"Standard" Lead Time is the default scenario for standard requests while "Rush" is reserved for rush activations. Short Lead Time, enhanced through the tasking window definition, may imply an additional cost and therefore a larger quota consumption.

For an archive data request, the time window defines the target window where the operators will search for imagery fulfilling the requirements.



	Satellite Tasking lead time
Standard Lead	Default option for standard orders.
Time (SLT)	Data request submission >2 working days prior to acquisition window start time
Short Lead	Add-on for standard orders.
Time (SLT)	Sensing start time between 16 and 48 hours from order submission
Rush Lead Time	Only for emergency orders.
	LT ≤ 16 hours

Table 8: Options available for programming notice

6.4.3. Processing options

Different types of product and processing levels are offered by the Copernicus Contributing Missions. The following options are nominally possible:

1. For radar datasets

- Single look
- Multi look (available in different geometric corrections, e.g. georeferenced, ellipsoid or terrain corrected)

In turn, each one of the two options above is available in different polarisations (e.g. single, dual, quad and cross/alternating or multi-Polarisation) depending on the SAR sensor.

2. For optical datasets

- Non-orthorectified
- Ortho-ready¹
- Orthorectified
- Orthorectified BOA corrected²

¹ Available for Pleiades-1A/1B ,WorldView-1-4, GeoEye-1

² Available only for PlanetScope mission



Each of the above processing levels can be available in accordance with mission specifics as follows:

- Panchromatic
- Multispectral (available in 3, 4, 6 or 8 bands)
- Pansharpened (merge of Panchromatic band with Multispectral bands) available in band combinations 4321, 432 or 321.
- Bundle (available as [Panchromatic +3, 4, 6 or 8 Multispectral bands]
- Stereo³ or mono
- Atmospheric corrections

6.4.4. Cloud coverage classes

For optical data, the following cloud coverage categories are selectable for standard orders. The default value is Cloud-free20, the other values must be selected at order submission and imply an additional data cost.

	Cloud Coverage Classes						
Cloud-free5	Cloud cover within the image shall not amount to more than 5% of the AOI, implying a cost uplift						
Cloud-free10	Cloud cover within the image shall not amount to more than 10% of the AOI, implying a cost uplift						
Cloud-free15	Cloud cover within the image shall not amount to more than 15% of the AOI, implying a cost uplift						
Cloud-free20	Cloud cover within the image shall not amount to more than 20% of the AOI.						

Table 9: Options available for cloud cover restriction

³ Stereo products distribution may be affected by short delays due to the manual order handling (order acceptance and processing) of such products



6.4.5. Delivery timeliness

Table 10 presents the options available for the newly introduced delivery timeliness for new acquisitions and archive data delivery, in rush and standard mode:

- In rush orders, the timeliness is set for fastest data delivery
- Fast24 is only selectable within standard orders, other values are the default ones for either Rush or Standard orders

Rush orders							
Delivery timeliness	Definition						
Rush	Product delivery on CCME FTP server (email notification) within 1 hour from order submission by the user.						
Rush	Product delivery on CCME FTP server (email notification) within 30 minutes from sensing start time						
<u> </u>	Standard orders						
Normal	Default within Standard datasets.						
	Product delivery to PRISM within 2 working days from order submission by the user.						
Fast24h	Offered within Standard datasets for urgent orders.						
	Product delivery to PRISM within 24 hours from order submission by the user. It implies a cost uplift						
Normal	Default within Standard datasets.						
	Product delivery to PRISM within 2 working days from sensing start time						
Fast24h	Offered within Standard datasets for urgent orders.						
	Product delivery to PRISM within 24 hours from sensing start time. It implies a cost uplift						
	Rush Rush Normal Normal						

Table 10: Delivery timeliness applicable to data requests



6.5. Data request cost factors

The matrix below (Table 11) highlights differences between a baseline service and add-on options implying extra costs.

			Da	taset Type		
		Archive_rush	New acquisition rush	Archive standard	New acquisition standard	
S	Tasking Lead time	N/A	Rush	N/A	Standard	
eature	Delivery timeliness	ArchRush	NRT3h	ArchNormal	Normal	
Basic Features	Product Processing	Up to non_ortho	Up to non_ortho	Up to non_ortho	Up to non_ortho	
ш	Cloud cover	As requested	N/A	As requested	Cloud-free20	
		Archive rush	New acquisition rush	Archive standard	New acquisition standard	
	Tasking Lead time	N/A	N/A	N/A	Short Lead Time	
	Delivery timeliness	Fast24	Fast24	Fast24	Fast24	
Add-ons	Product Processing	Ortho	Ortho	Ortho	Ortho	
Ad	Atmospheri c corrections	N/A	N/A	TOC or BOA reflectance	TOC or BOA reflectance	
	Cloud Cover	N/A	N/A	N/A	Cloud-free5, Cloud-free10, Cloud-free15	

Table 11: Baseline options and order parameters affecting data cost

The user shall select the preferred order options; this will allow the Services Coordinated Interface (SCI) team to identify the CCM that can fulfil the requirements according to its technical specifications.



For a better insight, users are advised to check specificities highlighted per CCM, available under Data - Ordering Standard ordering options per CCME and Rush ordering options per CCME.

7. USERS SUPPORT SERVICES

Three channels of support are offered to users to cover different levels and types of enquiries and needs.

7.1. Web portal

The Copernicus Contributing Missions Online web portal (https://spacedata.copernicus.eu/) contains all information related to the Copernicus Contributing Missions, the access rights, the data offer, how to access the data, and the entry point to the register and access the user personal area.

For information about the Copernicus Sentinel missions and ESA/TPMs, users are instead advised to go to Sentinel Online and Earth Online portal respectively.

7.2. Day-to-day support for enquiries and ordering

The operational support to Copernicus Users is provided by the Services Coordinated Interface (SCI), the day-to-day interface to get help in accessing Earth Observation (EO) data distributed within the Copernicus Contributing Missions Online, including the Sentinels.

The SCI team can be contacted via email at EOSupport@Copernicus.esa.int.

Service hours are Monday to Friday, from 8:30 to 17:00 (CET), except for closure on Christmas day, New Year's day and Easter Monday.

REACT (dedicated rush service): 24 hours/7 days.



7.3. Specific support regarding the data offer

The management of Users requirements is performed by the Account Managers who are the dedicated interface to Copernicus Users for issues related to the data offer, including analysis of the evolving requirements and approval of deviations from the data offer where possible, authorisation of data ordering in case of quota exhaustion, etc.

The Account Managers organize regular collection of Customer feedback as an input to the continuous improvement process of the Copernicus Contributing Missions Online and regularly assess progress with the Service Projects. Results, analysis and recommendations are published under Support- Helpdesk <u>User's-Feedback</u>.

They can be contacted at Copernicus.Account.Manager@ext.esa.int.

Service hours are Monday to Friday from 8:30 to 17:00 (CET).



ANNEX 1: ABBREVIATIONS AND DEFINITIONS

Abbreviations

ADD	ADDitional datasets
AOI	Area of Interest
CCM	Copernicus Contributing Mission
CCME	Copernicus Contributing Mission Entity
CET	Central European Time
CSC	Copernicus Space Component
CSCDA	Copernicus Space Component Data Access
CSP	Copernicus Service Project
CRS	Coordinate Reference System
DAP	Data Access Portfolio
DEM	Digital Elevation Model
DGED	Defence Gridded Elevation Data
DSM	Digital Surface Model
DTED	Digital Terrain Elevation Data
DWH	Data Warehouse
EEA	European Environment Agency
EMS	Emergency Management Service
EO	Earth Observation
ESA	European Space Agency
EU	European Union
EUSI	European Space Imaging
FTP	File Transfer Protocol
GSD	Ground Sample Distance
HR	High Resolution
LR	Low Resolution



LUZ	Larger Urban Zones
MR	Medium Resolution
N/A	Not Applicable
NRT	Near Real Time
Ortho	Orthorectified
Pan	Panchromatic
PANDA	PIANetary Data Access
Pansharp	Pansharpened
Pol	Polarisation
PRISM	Copernicus Contributing Missions Access Support Functions and Platform
REACT	Rapid Emergency Activation for Copernicus Tasking
SAR	Synthetic Aperture Radar
SCI	Services Coordinated Interface
SLT	Short Lead Time or Standard Lead Time
SPERF	Services Provider Emergency Request Form
SRTM	Shuttle Radar Topography Mission
TPM	Third Party Mission
VHR	Very High Resolution

Definitions

Additional Dataset	On-demand small coverages, procured to respond to specific users' needs according to requirements specified in data requests
CORE Dataset	Predefined large coverages procured from Contributing Missions according to requirements specified in advance by Copernicus Services
Dataset	Collection of homogeneous data, part of the Data Offer
Discovery	Search for spatial datasets and services on the basis of the content of the corresponding metadata and to display the content of the metadata
Download	Full and direct access to the complete Primary Products, including the right to DOWNLOAD them and to make copies of them (according to the License)



License	Terms and Conditions for Access (VIEW and/ or DOWNLOAD) to Earth Observation Data from CSC-DA/ the Earth Observation Data Access Portfolio (DAP)
PRISM archive	Archive containing both the EO data products procured to implement the predefined datasets and the on-demand data requests from eligible users
View	Display, navigate, zoom in/out, pan or overlay viewable spatial datasets and display legend information and any relevant content of metadata



ANNEX 2: DATA ACCESS RIGHTS TO COPERNICUS CONTRIBUTING MISSION DATASETS (SYSTEMATIC AND ON-DEMAND)

	Users categories										
Dataset	[Copernicus_ Services]	[Union_In st]	[Union_Research _Projects_space]	[Union_Research _Projects_non- space]	[Public_ Auth]	[Int_Org_ NGO]	[Public]	[TP_Data_P roviders]	[Data_Acc ess_Servi ces]	[Ops_SpaceInf _Services]	
			<u>OPT</u> I	CAL COVERAGES (C	ORE datas	ets)					
VHR_IMAGE_2021 European VHR coverage 2021	D	D	D	D	D	V	V				
VHR_IMAGE_2018 (and VHR_IMAGE_2018 _enhanced) European VHR coverage 2017-	D	D	D	D	D	V	V				
2019											
DEM_VHR_2018 VHR 2018 DEM	D										
VHR_IMAGE_2015 European VHR coverage in 2014- 2016	D	D	D	D	D	V	V				



				Us	ers categori	ies				
Dataset	[Copernicus_ Services]	[Union_In st]	[Union_Research _Projects_space]	[Union_Research _Projects_non- space]	[Public_ Auth]	[Int_Org_ NGO]	[Public]	[TP_Data_P roviders]	[Data_Acc ess_Servi ces]	[Ops_SpaceInf _Services]
VHR1-2_Urban _Atlas_2012	D	D	D	D	D	V	V			
DWH_MG2b_CORE _30 VHR Urban Atlas 2006 and 2009	D	D	D	V	D	V	V			
DWHMG2b_COR E_03 VHR2 European coverage 2011- 2013 and Riparian zones	D	D	D	V	D	V	V			
HR_IMAGE_2015 HR Pan European coverages in 2014- 2015	D	D	D	D	D	V	V			
IMAGE2012 HR Pan European coverages in 2011-2013	D	D	D	V	D	V	V			
IMAGE2009 & IMAGE2006 HR Pan European coverages in	D	D	D	V	D	V	V			



		Users categories									
Dataset	[Copernicus_ Services]	[Union_In st]	[Union_Research _Projects_space]	[Union_Research _Projects_non- space]	[Public_ Auth]	[Int_Org_ NGO]	[Public]	[TP_Data_P roviders]	[Data_Acc ess_Servi ces]	[Ops_SpaceInf _Services]	
1998 - 2008											
DWH_MG2_CORE_ 09 Sub-Saharan HR2 coverage in 2011- 2013	D	D	D	D	D	D	V				
EUR_HR2_MULTIT EMP HR2 European coverages in 2015	D	D	D	D	D	D	V				
DWH_MG2- 3_CORE_08 MR1 European coverages in 2011- 2012	D	D	D	V	D	V	V				
MR_IMAGE_2015 MR1 European coverages in 2014	D	D	D	D	D	D	V				

SAR CORE DATASETS



	Users categories									
Dataset	[Copernicus_ Services]	[Union_In st]	[Union_Research _Projects_space]	[Union_Research _Projects_non- space]	[Public_ Auth]	[Int_Org_ NGO]	[Public]	[TP_Data_P roviders]	[Data_Acc ess_Servi ces]	[Ops_SpaceInf _Services]
HR2_MR1_SAR_S EA_ICE										
monitoring of sea ice zones	D	D	D	D^4	D⁵	V	V			
2015-2022										
DWH_MG1_CORE_ 11										
monitoring of sea ice zones	D	D	D	V	D	V	V			
2011-2014										
DSM (Digital Surface Model) DATASETS										
COP-DEM_										
GLO-90-F	D	D	D	D	D	D	D	D	D	D
Worldwide, 90m resolution										
COP-DEM_GLO-30	D	D	D	D	D	D	D	D	D	D
COP-DEM_	D	D	D	D	V	V	V	D	D	D

⁴ Excluding Radarsat-2 Mission

 $^{^{\}rm 5}$ Excluding Cosmo-SkyMed, including Radarsat-2 as of January 2022 onwards



	Users categories									
Dataset	[Copernicus_ Services]	[Union_In st]	[Union_Research _Projects_space]	[Union_Research _Projects_non- space]	[Public_ Auth]	[Int_Org_ NGO]	[Public]	[TP_Data_P roviders]	[Data_Acc ess_Servi ces]	[Ops_SpaceInf _Services]
EEA-10-R European coverage, 10m resolution										
On-demand datasets 2014-2023										
On-demand data archived since April 2015 ⁶	D	D	D	D	D					
On-demand datasets 2011-2014										
On-demand data archived from 2011 to April 2015	D	D	D							

⁶ Data ordered by Security Services are restricted