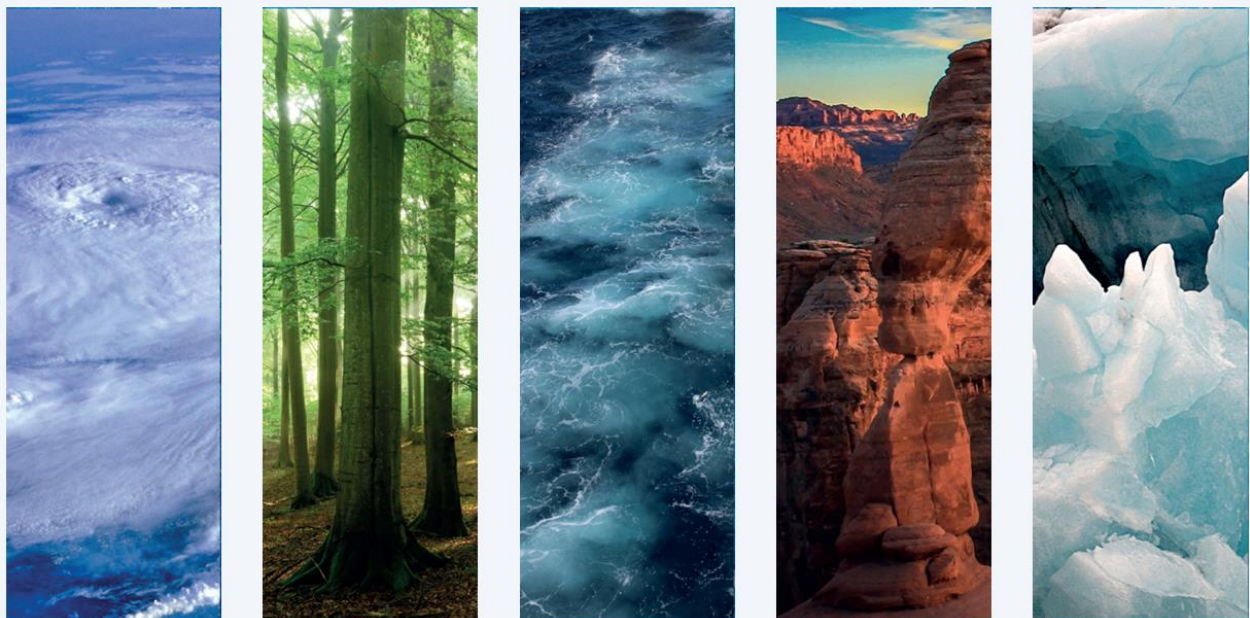


# Research and User Support for Sentinel Core Products - Service Operations - RUS



## RUS Reference Datasets

Reference: RUS-RefData

Version 1.0 - 4 August, 2017

This document lists reference datasets the RUS Consortium has identified as potentially useful to the RUS users. The proposed datasets covers several applications linked to the Copernicus Programme, and are made available online by third-party entities. Datasets can be in-situ data, photo-interpreted data, sensor data, but also map products. Potential uses of such datasets cover calibration and validation activities, but also stratification, or visual assessments. The list of datasets eventually made available on the portal will evolve based on the release of new datasets, and user requests.

Selection criteria have been put in place in order to comply with legal and quality standards identified by the Consortium. Datasets shall be:

- 1) accessible for free,
- 2) be made publicly available by the producers,
- 3) be published with metadata, and
- 4) supported by peer-reviewed literature (e.g., scientific paper).

The list of datasets is available on table 1.

**Table 1:** List of reference datasets pre-identified for the RUS platform.

Name	Nature	Thematic content	Thematic year	Producer	Link	Supporting References
GOFC-GOLD reference data portal	6 different datasets (points, polygons)	Land cover information	2000-2016	Varies	<a href="http://www.gofcgold.wur.nl/sites/gofcgold_refdataportal.php">http://www.gofcgold.wur.nl/sites/gofcgold_refdataportal.php</a>	Multiple, see gofc-gold portal
Land Cover Climate Change Initiative maps	Yearly global scale map products	Land cover information	1992-2015	UCL/ ESA	<a href="http://maps.elie.ucl.ac.be/CCI/viewer/">http://maps.elie.ucl.ac.be/CCI/viewer/</a>	See portal
GlobeLand30	Global scale map products	Land cover information	2000 and 2010	NGCC	<a href="http://www.globallandcover.com/GLC30Download/index.aspx">http://www.globallandcover.com/GLC30Download/index.aspx</a>	See portal

Name	Nature	Thematic content	Thematic year	Producer	Link	Supporting References
Puertos Del Estado	Spanish government agency, answerable to the Ministry of Public Works. It is responsible for implementing the government's port policy.	Oceanography  (currents data, Sea surface temperature data, Sea Level data, Salinity data, Wind data, Waves data)	From 1998 to today (new data collected everyday)	Puertos Del Estado Agency	<a href="http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx">http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx</a>	See portal

Name	Nature	Thematic content	Thematic year	Producer	Link	Supporting References
NOAA	The largest collection of freely available marine environmental data and information (includes also links to Argo data)	Oceanography	Depending on the parameter considered	Varies	<a href="https://www.nodc.noaa.gov/">https://www.nodc.noaa.gov/</a>	See Portal
ECMWF data	Free archive datasets and Public, WMO and ACMAD Datasets	Global numerical weather forecasts	Depending on the dataset	ECMWF	<a href="http://www.ecmwf.int/en/forecasts/accessing-forecasts">http://www.ecmwf.int/en/forecasts/accessing-forecasts</a>	See portal

Name	Nature	Thematic content	Thematic year	Producer	Link	Supporting References
CORIOLIS Database  IFREMER	In situ operational data et data delivery (Argo data; buoys and mooring profiles, CTD profiles, Sean mammal profiles, Chlorophyl, Temperature and salinity data.	Oceanography	Depending on the dataset	Varies	<a href="http://www.coriolis.eu.org/">http://www.coriolis.eu.org/</a>	See portal
LUCAS survey	In-situ measurements (270,000 points in 2012 in all 27 EU countries)	Land cover, land use, irrigation management and structural elements in the landscape	Produced on a three-yearly basis since 2006	Eurostat		

Name	Nature	Thematic content	Thematic year	Producer	Link	Supporting References
CANDHIS (Centre d'Archivage National de Données de Houle In Situ)	In situ operational data (buoys) around France.	Oceanography	Depending on the dataset	Varies	<a href="http://candhis.cetmef.developpement-durable.gouv.fr/carte/">http://candhis.cetmef.developpement-durable.gouv.fr/carte/</a>	See portal
NDBC (National Data Buoy Center, NOAA)	In situ operational buoys data et data delivery around the entire world.	Oceanography	Depending on the dataset	Varies	<a href="http://www.ndbc.noaa.gov/">http://www.ndbc.noaa.gov/</a>	See portal

Name	Nature	Thematic content	Thematic year	Producer	Link	Supporting References
Fisheries and Oceans Canada  (Government of Canada)	In situ operational buoys data et data delivery around Canadian coast.  Tides currents and water levels.	Oceanography	Depending on the dataset	Varies	<a href="http://www.dfo-mpo.gc.ca/index-eng.htm">http://www.dfo-mpo.gc.ca/index-eng.htm</a>	See portal
AODN  (Australian Ocean Data Network)	In situ operational data et data delivery (Physical parameters; biological parameters and chemical parameters).	Oceanography	Depending on the dataset	Varies	<a href="https://portal.aodn.org.au/">https://portal.aodn.org.au/</a>	See portal



Name	Nature	Thematic content	Thematic year	Producer	Link	Supporting References
ECMWF Era-Interim	global atmospheric reanalysis, continuously updated in real time since 1979.	Land, Ocean, Atmosphere applications	Since 1979 (re-analyses)	ECMWF	<a href="http://www.ecmwf.int/en/research/climate-reanalysis/era-interim">http://www.ecmwf.int/en/research/climate-reanalysis/era-interim</a>	See portal
OSI-SAF	See (2)	Ocean, Sea-Ice		OSI-SAF and Partners (see portal)	(1) <a href="http://www.osi-saf.org/?q=content/list-products">http://www.osi-saf.org/?q=content/list-products</a> (2) <a href="http://www.osi-saf.org/?q=content/products-documentation">http://www.osi-saf.org/?q=content/products-documentation</a>	See portal

Name	Nature	Thematic content	Thematic year	Producer	Link	Supporting References
WGI (WorldGlacier Inventory)	The World Glacier Inventory (WGI) contains information for over 130,000 glaciers. Inventory parameters include geographic location, area, length, orientation, elevation, and classification.	Snow and Ice	Depending on the dataset	Varies	<a href="https://nsidc.org/data/glacier_inventory/">https://nsidc.org/data/glacier_inventory/</a>	See portal