



Water and Ice Cover S2 2016-present (raster 20 m), Europe, NRT

The Sentinel-2 Water and Ice Cover (WIC S2) product is generated in near real-time at European scale, based on optical satellite data from the Sentinel-2 constellation. The product provides the water and ice extent, including snow-covered or snow-free ice on water bodies (rivers and lakes), at a spatial resolution of 20 m x 20 m.

WIC S2 is one of the products of the pan-European High-Resolution Water Snow & Ice portfolio (HR-WSI), which are provided at high spatial resolution from the Sentinel-2 and Sentinel-1 constellations data from September 1, 2016 onwards.

The WIC S2 product is distributed in raster files covering an area of 110 km by 110 km with a pixel size of 20 m by 20 m in UTM/WGS84 projection, which corresponds to the Sentinel-2 input L1C product tile. Each product is composed of separate files corresponding to the different layers of the product, and another metadata file.

Simple

Date (Publication)	2025-03-05
Edition	01.00
Citation identifier	copernicus_r_utm-wgs84_20_m_wics2_p_2016-now_v01_r00
Citation identifier	da67c24d-a8b3-4b43-a321-aedf9e5f0c83
Code	10.2909/d2e6d5d6-96cc-4aad-86ec-9be590fc7d1b

Point of contact

No information provided.

Maintenance and update frequency	Continual
GEMET - INSPIRE themes, version 1.0	• Land cover • Hydrography
Keywords	
Continents, countries, sea regions of the world.	• United Kingdom • EEA38 (from 2020)
Keywords	
GEMET	• climate change impact • environmental policy • water • land cover • ice • snow • monitoring • landscape alteration
Spatial scope	• European
EEA topics	• Environmental inequalities • Water
Temporal resolution	• Five days
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions

Other constraints	The Copernicus component is governed by Regulation (EU) No 2021/696 of the European Parliament and of the Council of 28 April 2021 establishing the Union Space Programme and the European Union Agency for the Space Programme and repealing Regulations (EU) No 912/2010, (EU) No 1285/2013 and (EU) No 377/2014 and Decision No 541/2014/EU. Within the Copernicus component, a portfolio of land monitoring activities has been delegated by the European Union to the European Environment Agency (EEA) and the DG Joint Research Centre of the European Commission. The Copernicus land monitoring products and services are made available on a principle of full, open and free access, as established by the Commission Delegated Regulation (EU) No 1159/2013 of 12 July 2013. Free, full and open access to the products and services of the Copernicus Land Monitoring Service is made on the conditions that: 1. When distributing or communicating Copernicus Land Monitoring Service products and services (data, software scripts, web services, user and methodological documentation and similar) to the public, users shall inform the public of the source of these products and services. 2. Where the Copernicus Land Monitoring Service products and services have been adapted or modified by the user, the user shall clearly state this. 3. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the European Union.
Spatial representation type	Grid
Distance	20 m
Language of dataset	English
Character set	UTF8
Topic category	• Environment
Begin date	2025-03-05

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Coordinate reference system identifier	EPSG:32625		
Coordinate reference system identifier	EPSG:32626		
Coordinate reference system identifier	EPSG:32627		
Coordinate reference system identifier	EPSG:32628		
Coordinate reference system identifier	EPSG:32629		
Coordinate reference system identifier	EPSG:32630		
Coordinate reference system identifier	EPSG:32631		
Coordinate reference system identifier	EPSG:32632		
Coordinate reference system identifier	EPSG:32633		
Coordinate reference system identifier	EPSG:32634		
Coordinate reference system identifier	EPSG:32635		
Coordinate reference system identifier	EPSG:32636		
Coordinate reference system identifier	EPSG:32637		
Coordinate reference system identifier	EPSG:32638		
Distribution format	GeoTIFF (1.0)		
OnLine resource	Protocol WWW:LINK-1.0-http-link	Linkage https://land.copernicus.eu/en/products/water-bodies/water-and-ice-cover-raster-20-m-60-m-europe-daily	Name Technical documentation and data access

OnLine resource

No information provided.

OnLine resource	Protocol DOI	Linkage https://doi.org/10.2909/d2e6d5d6-96cc-4aad-86ec-9be590fc7d1b	Name
Hierarchy level	Dataset		

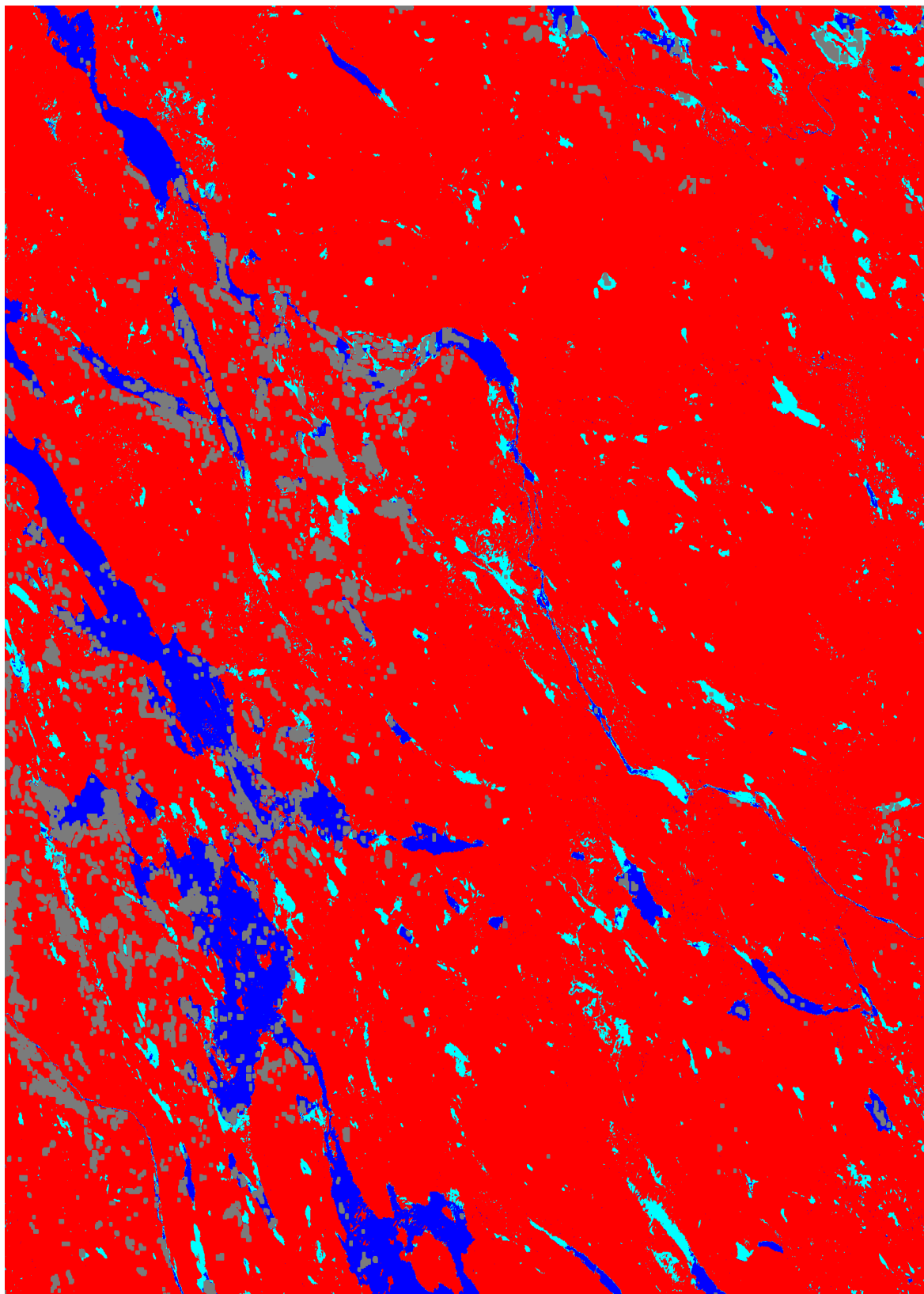
Conformance result

Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	See the referenced specification
Statement	Input data are the Sentinel-2 L1C products.

Metadata

File identifier	d2e6d5d6-96cc-4aad-86ec-9be590fc7d1b XML			
Metadata language	English			
Character set	UTF8			
Hierarchy level	Dataset			
Date stamp	2025-04-11T11:09:21.828813Z			
Metadata standard name	ISO 19115/19139			
Metadata standard version	1.0			
Metadata author	Organisation name	Individual name	Electronic mail address	Website Role
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Overviews



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