The Sentinel-3 satellite carries multiple instruments to measure sea-surface topography, sea- and land-surface temperature (SLSTR), and marine- and land-surface colour (OLCI). It contributes to the Copernicus ocean, land, atmosphere, emergency, security and cryosphere applications.

Based on the combination of SLSTR and OLCI products, SYN is composed of mainly two Level-2 product types:

- Surface reflectances and aerosol parameters over land projected on OLCI 300 meters grid for all SLSTR and OLCI channels (except thermal and absorption)
- SPOT continuity products reproducing similar characteristics of the VEGETATION instrument observation.

SYN's main aim is to monitor land use, its evolution and impact of weather and climate on agricultural activities. SYN is also an essential source of information for food security worldwide.

**Coverage**

The Sentinel-3 mission is based on a constellation of two identical satellites, Sentinel-3A and Sentinel-3B, launched separately. One satellite provides a revisit time of 27 days (385 orbits). The SYN swath coverage corresponds to the common part of the OLCI and SLSTR nadir view swaths for the daylight part of Sentinel-3's orbit, i.e. the entire OLCI swath. It allows global coverage at the equator to be provided in 2-4 days with one satellite and in less than two days with two satellites.

**Observation Scenario**

The Sentinel-3 observation scenario implements a pre-defined observation plan, and is focused on delivering the observation requirements of Copernicus Services. The Sentinel High-Level Operations Plan can be found at: https://sentinel.esa.int/web/sentinel/missions/sentinel-3/observation-scenario

**Data Access**

Sentinel data products are made available systematically and free of charge to all data users including the general public, scientific and commercial users.

Sentinel-3 products are distributed in the Sentinel Standard Archive Format for Europe (SAFE) format, including image data in NetCDF4 format and metadata in xml format.

Products are available in NRT (Near Real Time) less than three hours after acquisition and NTC (Non Time Critical) more than 24 after acquisition.

More information can be found at: https://sentinel.esa.int/web/sentinel/sentinel-data-access
**User Products**

SYN Level-2 data products are computed from OLCI Level-1B and SLSTR Level-1B data (including nadir and oblique views), and are composed of land and atmospheric geophysical quantities derived from these Level-1 products. VGT-P (1 km resolution) and SYN (300 m) products are disseminated as stripes (a full orbit). VGT-S are disseminated in tiles (global coverage or requested geographical subset).

The size of uncompressed SYN products is 2.9GB, VGT-P products are 1.4GB and VGT-S products are 10.7GB.

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**Tools**

The Sentinel-3 Toolbox can be used for the visualisation and analysis of SYN data.

More information can be found at: [https://sentinel.esa.int/web/sentinel/toolboxes/sentinel-3](https://sentinel.esa.int/web/sentinel/toolboxes/sentinel-3)

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**The Sentinel Online Handbook**

The Sentinel-3 Mission Guide is an overview of the mission, its objectives, the satellite, its payload, the ground segment, generated data products and related news. [https://sentinel.esa.int/web/sentinel/missions/sentinel-3/SYN](https://sentinel.esa.int/web/sentinel/missions/sentinel-3/SYN)

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**Further Information**

For Copernicus User support, please contact EOSupport@Copernicus.esa.int

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**The Sentinel-3 User Guide** provides a high-level description of the instruments, coverage and acquisition, and available product levels. [https://sentinel.esa.int/web/sentinel/user-guides/sentinel-3-syn](https://sentinel.esa.int/web/sentinel/user-guides/sentinel-3-syn)

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**The Sentinel-3 Technical Guide** provides a point of engagement for ESA and technical users who have previous experience of similar Earth observation missions, and possess in-depth understanding of data manipulation and management. [https://sentinel.esa.int/web/sentinel/sentinel-3-syn-wiki](https://sentinel.esa.int/web/sentinel/sentinel-3-syn-wiki)