

Mission Status Report 152

Reference Period: 25 May - 28 June 2019

Mission Status

- The Sentinel-2 mission is performing global and systematic acquisitions with 5-day revisit.
- The Sentinel-2 acquisition plans are published at:
<https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/acquisition-plans>
- The observation scenario has been executed with an average MSI sensing time per orbit of 20.1 minutes for Sentinel-2A and 20.7 minutes for Sentinel-2B.
- Level-2A operational production is available worldwide since 13th of December 2018, and over the Euro-Mediterranean region since 26 of March 2018. Level-2A products are available on the Copernicus Open Access Hub, the Copernicus Services Data Hub and the Collaborative Data Hub.
- The routine production of Level-1C top-of-atmosphere products is available in all the Data Hubs.
- On 6 May 2019, a new Processing Baseline (02.12) was deployed for the Copernicus Sentinel-2 Level-2A products. This new Processing Baseline improves the terrain correction algorithm, in order to avoid adjacent tile discontinuities in terrain correction for seemingly flat areas with gentle slopes. Processing Baseline 02.12 remains compliant with the current version of the Product Specification Document (PSD v14.5).
- The latest data quality information is available in two reports, one for [L1C products](#) and one for [L2A products](#).
- To date, a total of 251,727 users have self-registered on the Copernicus Open Access Hub.
- About 12 million products are available for download, cumulating a total volume of 6.2 Petabytes. Overall, a total volume of 54.4 Petabytes has been downloaded by the user communities from the Copernicus Open Access Hub, the Copernicus Services Data Hub, the Collaborative Data Hub and the International Hub.
- Due to a ground segment anomaly, some L1C/L2A products acquired between 8, 10 and 23 June 2019 were missing ECMWF auxiliary files. Affected products were removed from all datahubs, and replacement with regenerated products is under finalisation. More information available [here](#).
- The removal and regeneration of the set of Copernicus Sentinel-2 Level-2A products affected by degraded quality between 6 and 9 May (see [here](#)) was finalised for all hubs.
- The space segment, with Sentinel-2A and -2B satellites, is in a stable and nominal state.
- The European Data Relay System (EDRS) service is being used operationally for both Sentinel-2A and Sentinel-2B.
- The Payload Data Ground Segment (PDGS) is operating nominally through its different operational services, i.e. Core Ground Stations (CGS), Processing and Archiving Centres (PAC), Mission Performance Centre (MPC), Precise Orbit Determination (POD), Payload Data Management Centre (PDMC), Wide Area Network (WAN) and Data Access Hubs.
- Article “[Antarctic glaciers named after satellites](#)” published on 07 June 2019.
- Article “[Satellites yield insight into not so permanent permafrost](#)” published on 17 May 2019.
- Article “[Copernicus Sentinel-2 helps generate "game changing" intertidal habitat maps](#)” published on 30 May 2019.
- New “Earth from Space” videos featuring Sentinel-2 available [here](#).
- New artistic views from Sentinel-2 available [here](#).
- ESA's Living Planet Symposium took place on 13-17 May in Milan. Further details available [here](#).
- The following five DIAS platforms started operations on 21 June 2018: <https://mundiwebservices.com/>, <https://sobloo.eu/>, <https://www.onda-dias.eu/>, <https://creodias.eu/> and <https://www.wekeo.eu/>.

Outlook

- The rollout of the historical Sentinel-2 Level-1C on-line archive on the data hubs will start gradually during Q3 2019. At the same time, the off-line archive retrieval service will be activated on the hubs giving equivalent off-line access to the Sentinel-2 Level-1C rolled out products.
- The Sentinel-2 Level-2A on-demand service will start with an initial capacity available to Copernicus Services by Q3 2019.

