

sentinel-2

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Mission Status Report 138

Reference Period: 11-24 August 2018

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 20.1 minutes for Sentinel-2B.
- The routine production of Level-1C top-of-atmosphere products is available in all the Data Hubs.
- Level-2A operational production is available over 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. More details are available on this [link](#).
- Deployment on 30 July 2018 of new L2A processing baseline (02.09) improving the accuracy of Scene Classification over water, urban and bare areas thanks to the usage of the Climate Change Initiative (CCI) Land Cover data. Products will remain compliant with the current version of the Product Specification Document (PSD v14.5).
- To date, a total of 173,412 users have self-registered on the Copernicus Open Access Hub.
- About 5.7 millions products are available for download, cumulating a total volume of 3 Petabytes. Overall, a total volume of 26.2 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.
- The latest data quality information is available in two reports, one for [L1C products](#) and one for [L2A products](#).
- The publication of a fifth batch of Sentinel-2A single tile repackaged products (into the 'Complete Single Tile' format introduced in December 2016) started on 16th of August 2018. The overall affected dataset that will eventually be published covers the sensing period from 25th to 31st of August 2016 (Sentinel-2A only). More information at the news attached to this [link](#).
- 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.
- The Flight Operations Segment (FOS), ensuring the monitoring, control and commanding of the satellites, is operating nominally.
- The European Data Relay System (EDRS) service is being used operationally for both Sentinel-2A and Sentinel-2B.
- A Collision Avoidance Manoeuvre (CAM) was performed to avoid a close approach for Sentinel-2A on Sunday 2018-08-12 04:09 UTC. The chaser object is Cosmos 3 second stage (S3) (Cosmos 3M (11K65M)) (1983-103B). The manoeuvre caused the loss of 6 OCP EDRS links, due to the constraint to have the laser terminal parked during manoeuvres.
- A special issue in the Remote Sensing of Environment journal on "Science and Applications with Sentinel-2" is available online [here](#). This special issue has been jointly edited by ESA and the European Commission (EC) Joint Research Centre (JRC). Additional papers will be progressively published as they are accepted.
- The following five DIAS platforms started operations on 21 June 2018: <https://mundiwebervices.com/>, <https://sobloo.eu/>, <https://www.onda-dias.eu/>, <https://creodias.eu/> and <https://www.wekeo.eu/>.

Outlook

- New batch of L1C product evolutions (e.g. tile sensing time, detectors footprint mask) by Q3 2018.
- Start of Level-2A worldwide production during Q3 2018.
- Completion of the conversion of the archive into single-tile format by Q4 2018.
- A routine decontamination activity of the Sentinel-2A MSI is planned to take place over a continuous period of 24-hours between 15 and 16 September, from 07:00 to 07:00 UTC. During this temporal window, no MSI acquisition will take place.