

Mission Status Report 143

Reference Period: 27 Oct - 09 Nov 2018

Mission Status

sentinel-2

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- 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 15.8 minutes for Sentinel-2A and 17.9 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](#).
- The latest data quality information is available in two reports, one for [L1C products](#) and one for [L2A products](#).
- To date, a total of 192,100 users have self-registered on the Copernicus Open Access Hub.
- About 7 millions products are available for download, cumulating a total volume of 3.59 Petabytes. Overall, a total volume of 32.87 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 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.
- Since 8 October 2018, a new Processing Baseline (02.09) has been deployed for Sentinel-2 Level-2A products. Detailed information about the changes implemented can be found [here](#).
- An update of L1C and L2A processing baseline providing an improved data quality was delivered and products featuring this update started to be disseminated on the 6th of November featuring an improved data quality
- Due to a contingency at ground segment level, the availability in the Data Hubs of several products with sensing time between 30 October morning and 02 November morning has been delayed, recovery was completed in the course of the following days
- The First Workshop of the CEOS (Committee on Earth Observation Satellites) ACIX II (Atmospheric Correction Inter-comparison Exercise) and CMIX (Cloud Masking Inter-comparison Exercise) co-organised by NASA and ESA took place on 17 and 18 October in Washington DC (USA). This exercise aims at comparing atmospheric correction and cloud screening algorithms for Sentinel-2 and Landsat missions. More information can be found [here](#).
- Second conference on Mapping Urban Areas from Space 2018 (MUAS 2018) at ESRIN in Frascati (Italy) on 30-31 October 2018. More information can be found [here](#).
- Article "Copernicus Sentinel-2 brings benefits to viticulture and forestry" published and available [here](#).
- Article "Zooming in on Mexico's landscape" published and available [here](#).
- Article "Sentinel-2 maps Indonesia earthquake" published and 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

- Start of Level-2A worldwide production during Q4 2018.
- Completion of the conversion of the archive into single-tile format by Q1 2019.
- A routine decontamination activity of Sentinel-2B MSI is planned to take place between 12:00 UTC on 12 November and 12:00 on 13 November (approximately between absolute orbits 8801 to 8815). During this temporal window no MSI acquisition will take place.