

Mission Status Report 141

Reference Period: 29 Sep - 12 Oct 2018

sentinel-2

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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 18.1 minutes for Sentinel-2A and 19.5 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](#).
 - Update on Sentinel-2 L2A products was implemented to optimise the encoding of the quality bands (SCL, CLD, SNW, PVI, TCI) over 8 bits instead of 16 bits, in line with the Sentinel-2 L1C products. All L2A products generated as of 19 September 2018 feature this change.
 - The latest data quality information is available in two reports, one for [L1C products](#) and one for [L2A products](#).
 - To date, a total of 184,591 users have self-registered on the Copernicus Open Access Hub.
 - About 6.44 millions products are available for download, cumulating a total volume of 3.33 Petabytes. Overall, a total volume of 30.7 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.
 - Due to a Sentinel-2A Optical Communication Payload (OCP) unavailability between the 20th and the 24th of September causing the loss of the Sentinel-2A data downloaded through the European Data Relay System (EDRS), the Observation Scenario has been temporally reduced during that period.
 - 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](#).
 - 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) will take 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](#).
 - The second conference on Mapping Urban Areas from Space 2018 (MUAS 2018) will take place at ESRIN in Frascati (Italy) on 30-31 October 2018. More information can be found [here](#).
 - Two new articles published on Sentinel-2 viticulture, forestry and earthquake monitoring applications available [here](#) and [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
- New batch of L1C product evolutions (e.g. tile sensing time, detectors footprint mask) by October 2018.
 - Start of Level-2A worldwide production during Q4 2018.
 - Completion of the conversion of the archive into single-tile format by Q4 2018.