

sentinel-2

Mission Status Report 126

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Mission Status

- The Sentinel-2 mission is performing global and systematic acquisitions with 5-day revisit.
- In addition to the baseline acquisition areas, additional regions are being imaged (e.g. Antarctica is being imaged every 10 days).
- The Sentinel-2 acquisition scenario is published at:
<https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/acquisition-plans>
- The acquisition scenario has been executed with an average MSI sensing time per orbit of 18.2 minutes for Sentinel-2A and 19.6 minutes for Sentinel-2B.

- The routine production of Level-1C top-of-atmosphere products is available in all the Data Hubs.
- The pilot production of Level-2A surface reflectance products (over Europe and for both Sentinel-2A and Sentinel-2B) is available on the Copernicus Open Access Hub and the Copernicus Services Data Hub.
- To date, a total of 127.811 users have self-registered on the Copernicus Open Access Hub.
- About 3.14 millions products are available for download, cumulating a total volume of 1.81 Petabytes. Overall, a total volume of 15.5 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 report is published at:
<https://sentinels.copernicus.eu/webde/sentinel/missions/sentinel-2/data-quality-report>
- A new version of the Sentinel-2A spectral response functions was released. These updated Sentinel-2A spectral responses are mainly changing the responses for bands B01, B02 and B08, and they correct inaccurate spectral responses provided previously. The new spectral response functions are applicable since the beginning of the mission, and the Level-1 ground processing started using them on 15 January 2018.
- Land Products Validation and Evolution (LPVE) workshop was held from 27 February to 01 March 2018 at ESA/ESRIN in Frascati (Italy). Presentations will be made available at:
<https://nikal.eventsair.com/QuickEventWebsitePortal/lpve-conference-2018/esa-conference>
- ESA is organising the 2nd Mapping Water Bodies from Space Conference from 27 to 28 March at ESA/ESRIN. More information available at: <http://mwbs2018.esa.int/>

- The Flight Operations Segment (FOS), ensuring the monitoring, control and commanding of the satellites, is operating nominally.
- 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) and Wide Area Network (WAN).
- X-band data acquisitions are routinely performed by the PDGS over Matera, Maspalomas and Svalbard core stations. The acquired data is systematically processed to Level-0 and Level-1 products, circulated, and archived.
- The European Data Relay System (EDRS) service is being used operationally for both Sentinel-2A and Sentinel-2B.

Outlook

- Sentinel-2 Constellation Mission Operations Review in June 2018.
- Level-2A product evolution and start of operational production over Europe by end of March (giving improved continuity to the current pilot production). More details are available on this [link](#).
- Start of Level-2A global operational production by mid-2018.