

sentinel-2

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Mission Status Report 123

Reference Period: 27 Jan - 09 Feb 2018

Mission Status

- Sentinel-2A and -2B are together acquiring Europe, Africa and Greenland with 5-day revisit and the rest of the World is revisited every 6.6 days in average. Global systematic 5-day revisit is planned to be reached by the end of February after the start of S2A OCP full operations with the EDRS service.
- In addition to the baseline acquisition areas, 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 13 minutes for S2A and 15.7 minutes for S2B.
- A routine decontamination activity of the Sentinel-2A MSI was performed between 03 February 2018 07:10 UTC and 04 February 2018 06:20 UTC. During this time window no MSI acquisition will take place. Correlated calibration activities were performed around the decontamination period that further affected the nominal acquisition plan between 07:20 02 February 2018 and 08:00 05 February 2018 UTC.
- The routine production of Level-1C top-of-atmosphere products (globally) is available in all the Data Hubs.
- The pilot production of Level-2A surface reflectance products (over Europe and for Sentinel-2A only) is available on the Copernicus Open Access Hub and the Copernicus Services Data Hub. Sentinel-2B production is available since 16 January, and products with sensing date from 17 December 2017 onwards are progressively made available.
- To date, a total of 128.553 users have self-registered on the Copernicus Open Access Hub. About 2.83 millions products are available for download, cumulating a total volume of 1.63 Petabytes. Overall, a total volume of 14.23 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 availability of the Sentinel-2 products in the data hubs has suffered delays since 05 February 2018 following the maintenance on data access infrastructure.
- The 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 has been 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.
- Sentinel-2 Validation Team (S2VT) meeting was hold on 29-31 January at ESRI. Presentations will be made available at:
<https://nikal.eventsair.com/QuickEventWebsitePortal/sentinel-2-validation-team-meeting/s2vtm>
- Land Products Validation and Evolution (LPVE) workshop will be hold from 27 February to 01 March 2018 at ESRI. More information available at:
<https://nikal.eventsair.com/QuickEventWebsitePortal/lpve-conference-2018/esa-conference>
- The Flight Operations Segment (FOS) ensuring the monitoring, control and commanding of the satellite is operating nominally.
- The operational usage of the Sentinel-2A OCP with the EDRS acquisition service resumed successfully on 5 February following a successful validation campaign held previously. The Sentinel-2A mission capacity ramp-up was restarted and is planned to complete by the end of February.
- 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.
- Operations are nominally performed at the Processing and Archiving Centres and other PDGS operational services (i.e. Mission Performance Centre, Precise Orbit Determination, Wide Area Network).

Outlook

- Start of Level-2A operational production reaching global production by mid-2018.
- Systematic 5 days revisit worldwide with the constellation
- Sentinel-2 constellation review.