

sentinel-2

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Mission Status Report 125

Reference Period: 24 Feb - 02 Mar 2018

Mission Status

- The Sentinel-2 mission is performing global and systematic acquisitions with 5-day revisit.
- 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 17.5 minutes for S2A and 19.2 minutes for S2B.

- 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 126.462 users have self-registered on the Copernicus Open Access Hub. About 3.07 millions products are available for download, cumulating a total volume of 1.78 Petabytes. Overall, a total volume of 15.25 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.
- A new Sentinel GNSS L1B RINEX user product has been officially released for the Sentinel-1, -2 and -3A satellites and is available on a dedicated Sentinels GNSS RINEX Hub since 13 February.

- 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 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.
- Sentinel-2 Validation Team (S2VT) meeting was hold on 29-31 January at ESRIN. Presentations will be made available at:
<https://nikal.eventsair.com/QuickEventWebsitePortal/sentinel-2-validation-team-meeting/s2vtm>
- Land Products Validation and Evolution (LPVE) workshop was hold from 27 February to 01 March 2018 at ESRIN. Presentations will be made 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.
- On 25 February, there were two S2B OCP anomalies impacting products from absolute orbits 5076, 5078 and 5080. On 28 February, there was a S2A OCP anomaly impacting products from absolute orbit 14031.
- 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.
- EDRS service is being used operationally for both Sentinel-2A and Sentinel-2B.
- 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

- Sentinel-2 Constellation Mission Operations Review.
- Level-2A product evolution and start of operational production for the Euro-Mediterranean region by mid-March. More details are available on this [link](#).
- Start of Level-2A global operational production by mid-2018.