

sentinel-2

Mission Status Report 124

Reference Period: 10 - 23 Feb 2018

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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, 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 S2A and 16.4 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 126.661 users have self-registered on the Copernicus Open Access Hub. About 2.98 millions products are available for download, cumulating a total volume of 1.74 Petabytes. Overall, a total volume of 14.92 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 availability of the Sentinel-2 products in the data hubs has suffered delays since 05 February following the maintenance on data access infrastructure. Since 16 February, the ground segment contingency has been completely solved through specific interventions at network level and nominal Sentinel-2 product availability has resumed.
- On 13 February, all Sentinel-2B downlinks planned between 14:00 and 22:13 UTC were lost due to a misconfiguration of the satellite.

- 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 will be hold from 27 February to 01 March 2018 at ESRIN. 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.
- EDRS service is being used operationally for both Sentinel-2A and Sentinel-2B.
- 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

- Sentinel-2 Constellation Mission Operations Review.
- Start of Level-2A global operational production by mid-2018.