

Mission Status Report 118

Reference Period: 09-15 Dec 2017

sentinel-2

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Mission Status

- Sentinel-2A and -2B are together acquiring Europe, Africa and Greenland with 5 days revisit. The rest of the World is revisited at least every 10 days jointly by the two satellites. Global systematic 5-day revisit will be reached once either the 4th ground station (Inuvik) or EDRS become fully operational.
- 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 9.7 minutes for S2A and 13.5 minutes for S2B.
- As from 08 January 2018, acquisitions over Antarctica will resume with Sentinel-2A.

- The routine productions of Level-1C top-of-atmosphere products (globally) and pre-operational Level-2A surface reflectance products (over Europe and Sentinel-2A only) are available in all the Data Hubs.
- To date, a total of 113,695 users have self-registered on the Copernicus Open Access Hub. About 2.43 millions products are available for download, cumulating a total volume of 1.48 Petabytes. Overall, a total volume of 12.34 Petabytes has been downloaded by the user communities from the Copernicus Open Access Hub, the Copernicus Services Hub, the Collaborative GS Hub and the International Hub.

- The data quality report is published at:
<https://sentinels.copernicus.eu/web/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 and B02, 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 will use them from 15 January 2018.
- Sentinel-2 Validation Team (S2VT) meeting will be hold on 29-31 January 2018 at ESRIN. More information 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.
- S2A EDRS User Commissioning Phase B2 is on hold while the contingency measures related to the S2A OCP anomaly on 13 November are being implemented. As part of these measures, new S2A OCP forbidden zones will be implemented on 18 December 2017.
- S2B EDRS initial operations and ramp up activities being performed.
- 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

- Resume S2A EDRS User Commissioning Phase after having implemented the agreed contingency measures.
- Monitor S2B EDRS initial operations and ramp-up.
- Sentinel-2 constellation mission operations review.