



sentinel-2

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Mission Status Report 103 Reference Period: 26 Aug – 1 Sep 2017

Mission Status

- Access to the routine production of Sentinel-2A ortho-rectified Level-1C products and preoperational Level-2A products is available at https://scihub.copernicus.eu.
- Access to the Sentinel-2B ortho-rectified Level-1C products is provided through a dedicated hub accessible via the <u>Copernicus Open Access Hub</u> with public credentials. This dedicated interface will be maintained until mid September, at which point both Sentinel-2A and Sentinel-2B products will be commonly accessible through the nominal Data Hub interfaces.
- The recovery of the missing productions following the hardware anomaly occurred in Matera on the 11th August will be finalised during the next period.
- Due to a data circulation issue to Data Hubs, the products publication has been experiencing delays since the 29th of August. The anomaly has been investigated and a fix is expected for the next period.
- To date, a total of 98,144 users have self-registered on the Sentinels Scientific Data Hub. About 1.38 million products are available for download, cumulating a total volume of 1031 TB. Overall, a total volume of 9.59 Petabytes has been downloaded by the user communities from the Open Access Hub, the Copernicus Hub, the Collaborative GS Hub and the International Hub.
- The Sentinel-2 acquisition scenario is published at https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/acquisition-plans
- The data quality report is published at https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/data-quality-report
- The acquisition scenario has been executed with an average MSI sensing time per orbit of 14.3 minutes for S2A and 14 minutes for S2B.

 Sentinel-2A and -2B are together acquiring Europe, Africa and Greenland at 5 days revisit. The rest of the World is revisited every 10 days jointly by the two satellites. Full systematic 5-day revisit everywhere will be reached once EDRS downlink becomes available operationally, assumed towards Q3-2017 for S2B and Q4 for S2A.
- The Flight Operations Segment (FOS) ensuring the monitoring, control and commanding of the satellite is operating nominally.
- The status of both satellites is nominal.
- The EDRS-A / S2A OCP anomaly investigation is ongoing: Investigation on the root cause is progressing with tests planned on the qualification model with the aim to reproduce the problem. Meanwhile, the possibility of a return to operations with limitations in the movement was confirmed and an adapted operations scenario is under analysis.
- S2B/TDP-1 Phase B1 (EDRS-A Link Commissioning) is ongoing according to plan. Sentinel-2B EDRS User Commissioning Phase B2 will start in September.
- 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.
- Due to an antenna operation contingency at the Svalbard station on 1st of September, the S2A downlink on orbit 11463 and the S2B downlink on orbit 2554 were not received, inducing the loss of S2A MSI acquisitions between 10:25:44 and 12:03:48 UTC (12 minutes corresponding to 5 segments over Arctic, northern Europe and west Africa), and the loss of S2B MSI acquisitions between 11:17:08 and 13:04:26 UTC (12 minutes corresponding to 6 segments over arctic, Iceland, Azores, Brazil and west Africa).
- 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

- Continued investigations of the OCP anomaly for the EDRS-A / S2A User Commissioning Phase.
- Continue S2B/TDP-1 Phase B1.
- Move S2B products to Nominal Data Hub Interfaces.

