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## Mission Status Report 107 Reference Period: 23-29 Sep 2017

sentinel-2

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## **Mission Status**

- Access to the routine production of Sentinel-2A ortho-rectified Level-1C products and preoperational Level-2A products is available in all the Data Hubs.
- 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 of October, at which point both Sentinel-2A and Sentinel-2B products will be commonly accessible through the nominal Data Hub interfaces.
- Due to a ground segment anomaly, the publication of Sentinel-2B products in the Sentinel-2B PreOps Hub was interrupted in the evening of 22 September, starting for products acquired from approximately 22:00 UTC. Anomaly was fixed and data dissemination was resumed on the 26th September, and the recovery of the corresponding backlog is planned to be completed by Monday 2<sup>nd</sup> of October.
- To date, a total of 102,644 users have self-registered on the Copernicus Open Access Hub. About 1.55 million products are available for download, cumulating a total volume of 1088 TB. Overall, a total volume of 10.26 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. Note that the provided statistics are currently referring to S2A only until S2B products are disseminated through the nominal Data Hub interfaces.
- The Sentinel-2 acquisition scenario is published at https://sontinels.comprises.cu/web/sontinel/mission
- https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/acquisition-plans
  The data quality report is published at
- The data quality report is published at <a href="https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/data-quality-reported-with-on-overview">https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/data-quality-reported-with-on-overview</a> The acquisition according to be been evenued with an overview MSI sensing time on the sensing time of the sensing time of
- The acquisition scenario has been executed with an average MSI sensing time per orbit of 13.4 minutes for S2A and 13.3 minutes for S2B, slightly lowering since previous periods due to seasonal conditions (higher latitudes lower illumination), in transition of the start of the winter planning scenario including Antarctica coverage, foreseen to start on 10<sup>th</sup> of October..

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 during Q4-2017 for both S2A and S2B.

- 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 EDRS User Commissioning Phase B2 started on 18th of September and all activities have been conducted as of planning during the period.
- 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 error on the scheduling of the antenna on the 25th of <u>September</u>, partial MSI acquisition of S2A sensing orbit 11799 was not received, including the loss of 17s of acquisition
- Due to two errors still under investigation on station side on the 28th and 29<sup>th</sup> of September, partial MSI acquisition of S2B sensing orbits 2935, 2936 and 2950 was not received, including the loss of 230s of acquisition
- 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.
- Continuation of S2B EDRS User Commissioning Phase B2.