



# sentinel-2

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# Mission Status Report 105 Reference Period: 9-15 Sep 2017

#### 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 end of September, at which point both Sentinel-2A and Sentinel-2B products will be commonly accessible through the nominal Data Hub interfaces
- Following the resolution of the data circulation to Data Hubs anomaly on the 5<sup>th</sup> of September, the publication of the impacted products (between 29<sup>th</sup> of August and 5<sup>th</sup> of September) is in progress
- To date, a total of 100,292 users have self-registered on the Copernicus Open Access Hub. About 1.49 million products are available for download, cumulating a total volume of 1057 TB. Overall, a total volume of 9.94 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 <a href="https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/acquisition-plans">https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/acquisition-plans</a>
- The data quality report is published at <a href="https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/data-quality-report">https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/data-quality-report</a>
- The acquisition scenario has been executed with an average MSI sensing time per orbit of 14 minutes for S2A and 14.1 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 during 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 EDRS User Commissioning Phase B2 will start on 18th of 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 a station reception error (bad weather conditions) on the 11<sup>th</sup> of September, partial MSI acquisition of S2A sensing orbit 11599 was not received, inducing the loss of 209s of acquisition (1 segment over Siberia)
- 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.
- Start of S2B EDRS User Commissioning Phase B2.

