

## sentinel-2

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### Mission Status Report 108

Reference Period: 30 Sep-06 Oct 2017

#### Mission Status

- Access to the routine production of Sentinel-2A ortho-rectified Level-1C products and pre-operational 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 [Copernicus Open Access Hub](#) with public credentials. This dedicated interface will be maintained until 09 October, at which point both Sentinel-2A and Sentinel-2B products will be commonly accessible through the nominal Data Hub interfaces.
- Users are informed that Sentinel-2 Level-1C products will start being distributed with a slightly updated format as of 23 October 2017. Further details at: <https://scihub.copernicus.eu/news/News00232>
- To date, a total of 103686 users have self-registered on the Copernicus Open Access Hub. About 1.59 million products are available for download, cumulating a total volume of 1101 TB. Overall, a total volume of 10.40 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://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 12.6 minutes for S2A and 13.5 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 successfully 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.
- 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.