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sentinel-2

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Mission Status Report 104 Reference Period: 2 - 8 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.
- The recovery of the missing productions following the hardware anomaly occurred in Matera on the 11th August has been finalised.
- Due to a data circulation issue to Data Hubs, which has been resolved, the products publication has been experiencing delays between the 29th of August and the 5th of September.
- To date, a total of 99,287 users have self-registered on the Copernicus Open Access Hub. About 1.45 million products are available for download, cumulating a total volume of 1037 TB. Overall, a total volume of 9.75 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

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

- The Sentinel-2 acquisition scenario is published at <u>https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/acquisition-plans</u>
 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 14.2 minutes for S2A and 13.7 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) finalised successfully according to plan. 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 operation error at Matera station on the 8th of September, partial MSI acquisition of S2A sensing orbit 11558 was not received, inducing the loss of 53s of acquisition (1 segment of over south of Egypt and north of Sudan).
- 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.
- Preparation of S2B EDRS User Commissioning Phase B2 start.