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# sentinel-2

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## Mission Status Report 98 Reference Period: 22-28 Jul 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 has been opened on 6 July. Access to Sentinel-2B products will initially be provided through a dedicated hub accessible via the <u>Copernicus Open Access Hub</u> with public credentials. This dedicated interface will be maintained until September, at which point both Sentinel-2A and Sentinel-2B products will be commonly accessible through the nominal Data Hub interfaces.
- To date, a total of 94,002 users have self-registered on the Sentinels Scientific Data Hub. About 1.28 million products are available for download, cumulating a total volume of 963 TB. Overall, a total volume of 8.87 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 <u>https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/acquisition-plans</u>
   The data quality report is published at
- The data quality report is published at <u>https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/data-quality-report</u>
- The acquisition scenario has been executed with an average MSI sensing time per orbit of 14.2 minutes for S2A and 14.3 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 during August with the aim to reproduce the problem. In parallel return to operations with limitations in the movement are considered.
- S2B/TDP-1 Phase B1 (EDRS-A Link Commissioning) is ongoing according to plan. Sentinel-2B EDRS User Commissioning will start latest in Q3/2017.
- 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. A data reception anomaly occurred at Svalbard on 22<sup>nd</sup> July inducing the loss of 54 seconds of the corresponding S2B downlink, resulting in a missing segment over the Hudson Bay on S2B orbit 1968 between 16:28:55 and 16:49:50 UTC.
- 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).
- A call has been released for a special issue of RSE (Remote Sensing of Environment), for the topic of Science and Applications with Sentinel-2. Submissions are due by 30 September 2017. Please see the Elsevier page for details on the call:
- https://www.journals.elsevier.com/remote-sensing-of-environment/call-for-papers/scienceand-applications-with-sentinel-2

#### Outlook

- Continued investigations of the OCP anomaly for the EDRS-A / S2A User Commissioning Phase.
- From August 2017 onward, the Sentinel-2 Mission Status Reports will be provided at monthly intervals.