

sentinel-2

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Reference Period: 20 - 26 May 2017

Mission Status

- Access to the routine production of Sentinel-2A ortho-rectified Level-1C products is available at <https://scihub.copernicus.eu>.
- The recovery of the acquisitions of 7th April remains pending the correction of the related anomaly of the Svalbard front-end equipment data restore function.
- The ground segment has suffered a sporadic anomaly between March and May, leading to an incomplete dissemination of the production with about 11% products missing throughout the period. By 26th May all products have been recovered on the Hubs.
- To date, a total of 84,777 users have self-registered on the Sentinels Scientific Data Hub. About 993 thousand Level-1C products are available for download, cumulating a total volume of 827 TB. Overall, a total volume of 5.5 Petabytes has been downloaded by the user communities from the Open Access Hub, the Copernicus Hub and the International Hub.
- The Sentinel-2A 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 of 14.4 minutes of MSI sensing time per orbit, Sentinel-2A is acquiring Europe, Africa and Greenland at 10 days revisit. Since February the 20-day revisit pattern has been introduced for the rest of the world. It will remain in place until either the 4th X-band station or EDRS become available operationally, assumed towards late Q2/early Q3-2017.
- The Flight Operations Segment (FOS) ensuring the monitoring, control and commanding of the satellite is operating nominally.
- The status of the satellite is nominal.
The FOS Engineering Regression Validation Phase in preparation for EDRS-A / S2A OCP Commissioning Phase was completed, validating the Mission planning interface between PDGS and FOS, .
- 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).
- The reprocessing in baseline 02.04 of the S2A commissioning phase acquisitions has restarted; the reprocessed products up to the 8th December 2015 are available for download.
- 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/science-and-applications-with-sentinel-2>

Outlook

- Second step of final MMFU software update, likely to be executed together with the next MSi decontamination, planned not before July 2017.
- EDRS-A / S2A User Commissioning Phase will start in June 2017.
- Continued reprocessing campaign, expected finalisation within Q2 2017.

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Sentinel-2B In-Orbit Commissioning Phase (IOC)

- All satellite functions are performing nominally.
- OCP optical inter-satellite link verification - Phase 3 (Communication Phase) - has been completed. Six links between the S2B OCP and Alphasat/TDP1 have been used to demonstrate the relay of Sentinel-2B mission data to Ground. This event is marking the first transmissions of S2B images via laser beam and Ka-Band to ground. Preliminary assessment of the transmitted data has shown very good quality of contents.
- MSI Dark calibration acquisitions with different integration times for the MSI SNR evaluation were finalised.
- About 6 hours of MSI image acquisitions were performed in this reference period covering systematically Europe and vicarious sites for performance refinement.
- The Flight Operations Segment and the Payload Data Ground Segment are operating nominally the S2A and S2B constellation.

Outlook

- Continuation of the satellite in-orbit commissioning activities with further refinement of the performances
- In-Orbit Commissioning Review (IOCR) planned for the 15th of June 2017

Weekly image



US-Mexican border, 26 May 2017

