

sentinel-2

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Reference Period: 06 - 12 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 last four acquisitions affected by the ground segment anomalies of 1st to 3rd April 2017 and 7th April is presently blocked by an anomaly at the Svalbard ground station preventing the restore of the acquired data from the tape library. The anomaly and subsequent product recovery is expected to be resolved shortly.
- To date, a total of 82,368 users have self-registered on the Sentinels Scientific Data Hub. About 903 thousand Level-1C products are available for download, cumulating a total volume of 781 TB. Overall, a total volume of 5.2 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 14.7 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. Preparation for mission planning interface test between PDGS and FOS in on going and planned between CW20 and 21.
- 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 29th November 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 not before Q2/2017.
- Continued reprocessing campaign, expected finalisation within early 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 started and Phase 1 (Frame alignment) has been completed. Five links between the S2B OCP and Alphasat/TDP1 have been used to demonstrate and tune the alignment between the 2 optical terminals to excellent results. This achievement allows proceeding confidently with the transmission of Sentinel-2 idle frames and mission data in the next phase.
- Satellite Extended Mode functionality verification, including imaging mode, has been successfully performed.
- After MSI decontamination, a new set of on-board calibration coefficients have been generated.
- 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
- OCP Inter-Satellite Link that will show the functional capability of transmitting data to ground via a GEO counter-terminal
- In-Orbit Commissioning Review (IOCR) planned for the 15th of June 2017

Weekly image



Gulf of Mexico, Valparaiso/Fort Walton Beach, 10 May 2017

