

sentinel-2

Mission Status Report 83 -Page 1/2

→ COLOUR VISION FOR COPERNICUS

Reference Period: 08 – 14 Apr 2017

Mission Status

- Access to the routine production of Sentinel-2A ortho-rectified Level-1C products is available at <https://scihub.copernicus.eu>.
- Ground segment anomalies induced a temporary availability of products in the data hubs from 1st to 3rd April 2017 and on 7th April, in the sensing orbit ranges 9266-9296 9345-9357. The recovery of the corresponding products is almost complete, users will be informed of the finalisation via regular web mail.
- To date, a total of 77,933 users have self-registered on the Sentinels Scientific Data Hub. About 779 thousand Level-1C products are available for download, cumulating a total volume of 721 TB. Overall, a total volume of 4.7 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 14.3 minutes of MSI sensing time per orbit, Sentinel-2A is acquiring Europe, Africa and Greenland at 10 days revisit. Since 22 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 is on going.
- 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, which is currently paused due to an archiving anomaly, is expected to resume in the next reporting period; the reprocessed products up to the 25th 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, assumed in Q2/2017.
- EDRS-A / S2A User Commissioning Phase not before Q2/2017.
- Continued reprocessing campaign, expected finalisation within early Q2 2017.

sentinel-2

Mission Status Report 83 -Page 2/2

→ COLOUR VISION FOR COPERNICUS

Reference Period: 08 - 14 Apr 2017

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

- All satellite functions are performing nominally. Verification of the Extended Mode functionality, originally planned on 20th of April, is postponed in order to complete on-ground procedure verification.
- Optical Communication Payload (OCP): initial assessment of the Coarse Pointing Assembly (CPA) micro-vibrations shows no adverse impact on AOCS performance and image quality. First step towards confirmation of MSI and OCP parallel operations is achieved.
- Final long MSI acquisition for MSI and X-band thermal and power characterisation and for SWIR FPA set-point fine-tuning was acquired.
- 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
- MSI decontamination activities
- 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



Valencia, Spain, 11 April 2017

