



## sentinel-2

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Reference Period: 15 - 21 Apr 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 products affected by the ground segment anomalies from 1st to 3rd April 2017 and on 7<sup>th</sup> April is under completion (90% complete).
- To date, a total of 79,000 users have self-registered on the Sentinels Scientific Data Hub. About 808 thousand Level-1C products are available for download, cumulating a total volume of 734 TB. Overall, a total volume of 4.8 Petabytes has been downloaded by the user communities from the Open Access Hub, the Copernicus Hub and the International
- 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 22 February the 20-day revisit pattern has been introduced for the rest of the world. It will remain in place until either the 4<sup>th</sup> X-bad 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 25<sup>th</sup> 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/scienceand-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.







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

- All satellite functions are performing nominally.
- Optical Communication Payload (OCP): Coarse Pointing Assembly (CPA) micro-vibrations have no adverse impact on AOCS performance and image quality. MSI and OCP parallel operations are confirmed.
- Specific TDI functionality has been tested and validated (achievement of nominal MSI performance and positive margins for EOL are confirmed).
- About 5 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
- Verification of Satellite Extended Mode functionality
- 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 15<sup>th</sup> of June 2017

### Weekly image



Manhattan/New York, USA, 18 April 2017

