

sentinel-2

→ COLOUR VISION FOR COPERNICUS

Mission Status Report 112

Reference Period: 28 Oct-03 Nov 2017

Mission Status

- Sentinel-2A and -2B are together acquiring Europe, Africa and Greenland with 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 during December 2017 for both S2A and S2B.
- The acquisition scenario has been executed with an average MSI sensing time per orbit of 11.4 minutes for S2A and 13.8 minutes for S2B.
- The Sentinel-2 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>
- Access to the routine production of Sentinel-2A ortho-rectified Level-1C products and pre-operational Level-2A products is available in all the Data Hubs.
- Since Monday 9th of October, Sentinel-2B products are published on the Copernicus Open Access Hub and on the accompanying API Hub interface, access point for users of the scripting interface. Since 2nd of November, they are published as well on the Copernicus Services Data Hub. The most recent data is being routinely published and the past data is gradually added to the catalogue.
- The S2B Pre-Ops Hub continues to publish Sentinel-2B products in parallel for at least one month giving users the opportunity to update their scripts.
- As a result of a ground segment anomaly, the publication in the datahubs was delayed for products acquired between the 20 October and the 23 October, and later between the 31 October and the 2 November.
- Sentinel-2 Level-1C products with processing baseline 02.06, featuring the product format evolution described in the Product Specifications Document issue 14.3, started to be distributed as of 23 October 2017. The updated PSD (14.3) was made available for download. Please note that a typo in one XSD schema distributed as part of the Product Specification Document issue 14.3 has been detected and corrected. The zip attachment with the corrected XSD schemas has now been updated in the document. Further details at: <https://scihub.copernicus.eu/news/News00238>
- To date, a total of 109,253 users have self-registered on the Copernicus Open Access Hub. About 2.14 millions products are available for download, cumulating a total volume of 1.35 Petabytes. Overall, a total volume of 11.07 Petabytes has been downloaded by the user communities from the Copernicus Open Access Hub, the Copernicus Services Hub, the Collaborative GS Hub and the International Hub.
- The Flight Operations Segment (FOS) ensuring the monitoring, control and commanding of the satellite is operating nominally.
- The status of both satellites is nominal.
- Due to a satellite anomaly causing S2B OCP unavailability between 27/10/2017 15:10 UTC and 29/10/2017 06:20 UTC, the S2B sensing orbit 3357 was lost, and the orbits 3359, 3360, 3362, 3364, 3373, 3374, 3375, 3376 were partially lost.
- The S2A EDRS OCP anomaly investigation was concluded, and after the introduction of the necessary configuration changes, it was agreed to plan the restart of the User Commissioning phase B2 on the 6th of November 2017.
- Following the end of the S2B EDRS User Commissioning Phase B2 on 19th of October, initial operations and ramp up activities are performing since the 25th of October.
- 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.
- Due to an anomaly on Svalbard antenna control system, there was a loss of data over sensing orbits 3433, 3445, 3446 and 3448.
- 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).

Outlook

- Resume S2A EDRS User Commissioning Phase B2
- Monitor S2B EDRS initial operations and Ramp up