

## sentinel-2

→ COLOUR VISION FOR COPERNICUS

### Mission Status Report 121

Reference Period: 13-19 Jan 2018

#### Mission Status

- Sentinel-2A and -2B are together acquiring Europe, Africa and Greenland with 5-day revisit and the rest of the World is revisited every 6.6 days in average. Global systematic 5-day revisit will be reached once the 4<sup>th</sup> ground station (Inuvik) or EDRS become fully operational.
- In addition to the baseline acquisition areas, Antarctica is being imaged every 10 days.
- The Sentinel-2 acquisition scenario is published at:  
<https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/acquisition-plans>
- The acquisition scenario has been executed with an average MSI sensing time per orbit of 10.9 minutes for S2A and 13.8 minutes for S2B.
- A routine decontamination activity of the Sentinel-2A MSI is planned between 03 February 2018 07:10 UTC and 04 February 2018 06:20 UTC. During this time window no MSI acquisition will take place. Correlated calibration activities will be performed around the decontamination period that will further affect the nominal acquisition plan between 07:20 02 February 2018 and 08:00 05 February 2018 UTC.
- The routine production of Level-1C top-of-atmosphere products (globally) is available in all the Data Hubs.
- The pilot production of Level-2A surface reflectance products (over Europe and for Sentinel-2A only) is available on the Copernicus Open Access Hub and the Copernicus Services Data Hub. Sentinel-2B production is available since 16 January, and products with sensing date from 17 December 2017 onwards are progressively made available.
- To date, a total of 119,245 users have self-registered on the Copernicus Open Access Hub. About 2.68 millions products are available for download, cumulating a total volume of 1.6 Petabytes. Overall, a total volume of 13,45 Petabytes has been downloaded by the user communities from the Copernicus Open Access Hub, the Copernicus Services Data Hub, the Collaborative Data Hub and the International Hub.
- The data quality report is published at:  
<https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/data-quality-report>
- A new version of the Sentinel-2A spectral response functions has been released. These updated Sentinel-2A spectral responses are mainly changing the responses for bands B01, B02 and B08, and they correct inaccurate spectral responses provided previously. The new spectral response functions are applicable since the beginning of the mission, and the Level-1 ground processing started using them on 15 January 2018.
- Sentinel-2 Validation Team (S2VT) meeting will be hold on 29-31 January 2018 at ESRIN. More information available at:  
<https://nikal.eventsair.com/QuickEventWebsitePortal/sentinel-2-validation-team-meeting/s2vtm>
- Land Products Validation and Evolution (LPVE) workshop will be hold from 27 February to 01 March 2018 at ESRIN. More information available at:  
<https://nikal.eventsair.com/QuickEventWebsitePortal/lpve-conference-2018/esa-conference>
- The Flight Operations Segment (FOS) ensuring the monitoring, control and commanding of the satellite is operating nominally.
- S2A OCP operations are on hold while the contingency measures related to the anomaly on 13 November are being implemented and some additional tests are performed. Tests are planned to start from 22 Jan 2018.
- 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).

#### Outlook

- Resume S2A OCP ramp-up.
- Start of Level-2A operational production.
- Sentinel-2 constellation review.