

## Mission Status Report 150

Reference Period: 16 Mar - 3 May 2019

### Mission Status

## sentinel-2

### → COLOUR VISION FOR COPERNICUS

- The Sentinel-2 mission is performing global and systematic acquisitions with 5-day revisit.
- The Sentinel-2 acquisition plans are published at:  
<https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/acquisition-plans>
- The observation scenario has been executed with an average MSI sensing time per orbit of 19.6 minutes for Sentinel-2A and 20,6 minutes for Sentinel-2B.
- Level-2A operational production is available worldwide since 13<sup>th</sup> of December 2018, and over the Euro-Mediterranean region since 26 of March 2018. Level-2A products are available on the Copernicus Open Access Hub, the Copernicus Services Data Hub and the Collaborative Data Hub.
- The routine production of Level-1C top-of-atmosphere products is available in all the Data Hubs.
- The latest data quality information is available in two reports, one for [L1C products](#) and one for [L2A products](#).
- Sentinel-2 Validation Team (S2VT) meeting took place on 12-14 March in Toulouse. Further information available [here](#).
- To date, a total of 237,395 users have self-registered on the Copernicus Open Access Hub.
- About 10.7 million products are available for download, cumulating a total volume of 5.5 Petabytes. Overall, a total volume of 48.6 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 space segment, with Sentinel-2A and -2B satellites, is in a stable and nominal state.
- The European Data Relay System (EDRS) service is being used operationally for both Sentinel-2A and Sentinel-2B.
- The Payload Data Ground Segment (PDGS) is operating nominally through its different operational services, i.e. Core Ground Stations (CGS), Processing and Archiving Centres (PAC), Mission Performance Centre (MPC), Precise Orbit Determination (POD), Payload Data Management Centre (PDMC), Wide Area Network (WAN) and Data Access Hubs.
- Article "Copernicus Sentinel-2 data to estimate soil organic carbon in croplands" published and available [here](#).
- Article "Copernicus Sentinel-2 improves observations of lakes and water bodies" published and available [here](#).
- Article "Copernicus Sentinels become powerful tool in biodiversity conservation" published and available [here](#).
- Article "Lake Chad's shrinking waters" published and available [here](#).
- Article "Land-cover dynamics unveiled" published and available [here](#).
- New artistic views from Sentinel-2 available [here](#).
- The following five DIAS platforms started operations on 21 June 2018: <https://mundiwebservices.com/>, <https://sobloo.eu/>, <https://www.onda-dias.eu/>, <https://creodias.eu/> and <https://www.wekeo.eu/>.

### Outlook

- On 6 May 2019, a new Processing Baseline (02.12) will be deployed for the Copernicus Sentinel-2 Level-2A products. This new Processing Baseline improves the terrain correction algorithm, in order to avoid adjacent tile discontinuities in terrain correction for seemingly flat areas with gentle slopes. Processing Baseline 02.12 remains compliant with the current version of the Product Specification Document (PSD v14.5).
- ESA's Living Planet Symposium will take place on 13-17 May in Milan. More information available [here](#).
- The rollout of the historical Sentinel-2 Level-1C on-line archive on the data hubs will start gradually by end of Q2 2019. At the same time, the off-line archive retrieval service will be activated on the hubs giving equivalent off-line access to the Sentinel-2 Level-1C rolled out products.
- The Sentinel-2 Level-2A on-demand service will start with an initial capacity available to Copernicus Services by Q3 2019.