



Mission Status Report 175

Reference Period: August 2021

sentinel-2

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Mission Status

- Since 23 August, the geometric refinement of products has been extended worldwide, improving the multi-temporal registration and absolute geolocation accuracy of Level-1C and Level-2A products. Further details available [here](#).
- Despite the situation due to the COVID-19 pandemic, Sentinel-2 mission operations remained nominal.
- The mission is sensing systematically all land and water areas indicated [here](#), and the detailed mission acquisition plans are regularly published [here](#)
- The observation scenario has been optimised over the Maldives to cover all small islands and atolls that were not part of the mission baseline and removing an acquisition segment that was fully over water.
- An ad-hoc acquisition campaign has been started to provide an extended coverage over the Seychelles till March 2022 for supporting scientific studies aiming at better estimate the in-situ carbon stock in seagrass soils.
- Level-1C (top-of-atmosphere reflectance) and Level-2A (surface reflectance) products are available on [Copernicus Open Access Hub](#) and on [Data and Information Access Service \(DIAS\) platforms](#).
- Information on data quality is available in two reports, one for [L1C products](#) and one for [L2A products](#).
- As a consequence of a Copernicus Sentinel-2A collision avoidance manoeuvre executed on 8 August, some acquired data have been lost and several products have not been generated between sensing orbits 32013 and 32021.
- Some Data Hub anomalies and outages impacted the availability of the data access during the period. Please refer to the [news](#) page for the list of the single events.
- Several ground segment contingencies occurred on 22 and 23 August at network level, preventing the generation of several Sentinel-2 products. The recovery of missing products was performed during the following days. Further details available [here](#).
- As a consequence of an anomaly, which impacts the reception timeliness of some downlinks between 19 and 20 August, several products have not been generated in time and they were recovered during the following days. Further details available [here](#).
- As a consequence of a Copernicus Sentinel-2 anomaly, which impacts the reception timeliness of some downlinks between 8 and 10 August, several products have not been generated in time and they were recovered during the following days. Further details available [here](#).
- The following articles related to Sentinel-2 were published during the reporting period:
 - [New platform for sharing Copernicus Sentinel resources](#)
 - [Improved Copernicus Sentinel-2 snow cover product to help in environmental assessments](#)
 - [Gearing up for third Sentinel-2 satellite](#)
 - [ESA astronaut joins glacier expedition in Alps](#)
 - [Living Planet Symposium 2022](#)
- Sentinel-2 videos and images have been published and are available [here](#).
- Sentinel-2 remained in 2020 as the top European mission in terms of scientific peer-reviewed publications (1200 during 2020) and data volume distributed to users.

Outlook

- Upgrade of the processing baseline for both Level-1C and Level-2A featuring several improvements in the algorithms and changing products format. The change is foreseen in September/October 2021 and further news will follow [here](#).