



Mission Status Report 71

Reference Period: 16-30 Sep. 2020

sentinel-5p

→ GLOBAL AIR MONITORING
FOR COPERNICUS

Mission Status

Overall

- The mission, in Phase E2 (Operations Phase) since 24th April 2018, has reached routine operations capacity at the beginning of March 2019. Routine operations have not been affected by COVID-19.

Data availability and access

- Level 1B Radiance/Irradiance, Methane, Tropospheric Ozone (Offline); Carbon Monoxide, Formaldehyde, Nitrogen Dioxide, Sulphur Dioxide, Total Ozone, Aerosol Absorbing Index, Aerosol Layer Height and Cloud products (Offline and NRT) are available to the public via the Copernicus Sentinel-5 Precursor Data Hub – s5phub.copernicus.eu.

Platform

- All platform subsystems performed nominally.

TROPOMI Payload

- The TROPOMI instrument continues measuring in nominal operations baseline with a 360 orbit repeat cycle and since 6th August 2019 with a spatial resolution of about 5.5 km along-track and 3.5 km across-track.
- On 24th September a new planning scheme for Collision Avoidance Maneuvers (CAMs) has been implemented successfully to reduce the science data gap in case of a CAM (from a data gap of about 10 orbits to about 1 orbit).

Ground Segment

- The status of both FOS and PDGS has been nominal. Routine scheduling, acquisition, processing and dissemination tasks were performed without major anomalies.
- On 22nd September, part of the orbit 15250 (20%) has been lost due to acquisition errors.

Level 1B / Level 2 processors

- The generation of the Offline Diagnostic Data Set (DDS) by the PDGS for verification/validation of the new version 2 of all processors (Level 1B and Level 2) is almost finished (97% finalised so far). The NRT DDS production, foreseen only for Ozone and CLOUD products, is progressing well and foreseen to finish by mid-November.

Cal/Val Activities

- The routine validation activities continued nominally for the publicly released products.

Outlook

- The Sentinel-5P Validation Team (S5PVT) meeting will take place (via video/tele conference) on 20-21 October addressing, among others, the status of the Sentinel-5P Validation campaigns and the uncertainty characterization of the recently released DLR UPAS products.
- The generation and validation/verification of the Level 1B and Level 2 products (processors version 2) will continue during the next weeks.