



Mission Status Report 87

Reference Period: 16-31 May 2021

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.

Ground Segment

- The status of both FOS (Flight Operations Segment) and PDGS (Payload Data Ground Segment) have been nominal. Routine scheduling, acquisition, processing and dissemination tasks were performed without major anomalies.
- Some orbits were affected by acquisition problems leading to data loss in variable percentages: on 18th/19th May, orbits 18636 (23%), 18637 (76%); on 25th May, orbits 18700 (55%), 18701 (100%), 18702 (100%), 18703 (56%); on 28th May, orbits 18775 (35%), 18776 (64%).

Level 1B / Level 2 processors

- The updated processors Level 1B version 2, Level 2 version 2.2 and RAL-NPP version 1.3 are foreseen to be implemented into the PDGS until beginning of July 2021.
- Sample test datasets produced with the updated processors have been provided to the users on 24th May (<https://sentinel.esa.int/web/sentinel/-/copernicus-sentinel-5p-ground-processing-system-release-2.9.0>).

Cal/Val Activities

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

Outlook

- The PDGS and Mission Performance Centre (MPC) teams are working towards the milestone of July 2021, when new L1B and L2 processors will be released.