



Mission Status Report 63

Reference Period: 16-31 May 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.

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 and PDGS has been nominal. Routine scheduling, acquisition, processing and dissemination tasks were performed without major anomalies.
- On 17th May, some orbits were affected by acquisition problems leading to data loss in variable percentages: orbits 13436 (20%), 13437-13438 (100%), 13439 (80%).

Level 1B / Level 2 processors

- The generation of the Diagnostic Data Set (DDS) for verification/validation of the new DLR/UPAS processor is in progress (OFFL production is finished) and is expected to be completed until the beginning of June.

Cal/Val Activities

- The routine validation activities continued nominally for the publicly released products.
- The DDS data for HCHO and Ozone OFFL have been checked by the Mission Performance Centre (MPC) and the data show the expected improvements.

Outlook

- It is planned to activate new versions of the KNMI and DLR/UPAS L2 processors within the PDGS during summer 2020 (postponed due to the current COVID-19 situation).

