



Mission Status Report 79

Reference Period: 16-31 Jan. 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 and PDGS has been nominal. Routine scheduling, acquisition, processing and dissemination tasks were performed without major anomalies.
- On 18th January, some orbits were affected by acquisition problems leading to orbit data loss in variable percentages: 16928 (2%), 16929 (100%), 16930 (90%).

Level 1B / Level 2 processors

- A new version of the KNMI L2 processor was delivered to PDGS on 29th January. The DLR-UPAS team is working on an improved L2 processor version, to be delivered at the end of February. The KNMI and DLR processors are foreseen to be released in operations during April 2021, together with the deployment of the new L1b processor (version 2).

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 planned milestone of April 2021, when new L1 and L2 processors will be released.

