



Mission Status Report 74

Reference Period: 01-15 Nov. 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.

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 8th November, 20% of the Irradiance measurement of orbit 15913 and the 95% of the Radiance of orbit 15914 were lost due to acquisition problems.

Level 1B / Level 2 processors

- The generation of the Diagnostic Data Set (DDS) by the PDGS for verification/validation of the new version 2 of all processors (Level 1B and Level 2) was finished on 5th November. The verification/validation of the DDS is progressing and no problems have been identified so far.

Cal/Val Activities

- The routine validation activities continued nominally for the publicly released products.
- The 7th progress meeting ESA/Copernicus Atmosphere Monitoring Service (CAMS) took place on 5th November, highlighting the importance of the TROPOMI products for CAMS.

Outlook

- The 3rd Mission Performance Centre (MPC) Progress meeting will take place on 23-24th November to discuss the status of algorithm development, data quality control and routine geophysical validation of the data.