



Mission Status Report 73

Reference Period: 16-31 Oct. 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 22nd October, part of the orbits 15681 (13%) and 15682 (82%) were lost due to acquisition problems.

Level 1B / Level 2 processors

- The generation of the NRT Diagnostic Data Set (DDS) by the PDGS for verification/validation of the new version 2 of all processors (Level 1B and Level 2) is progressing well (~80% done so far) and is foreseen to finish during the second week of November.

Cal/Val Activities

- The routine validation activities continued nominally for the publicly released products.
- The Sentinel-5P Validation Team (S5PVT) meeting took place (via video/tele conference) on 20-21 October (110 participants). Mission Performance Centre (MPC) & S5PVT validation results show that the last Sentinel-5P PDGS update/release of the UPAS processor version 2.1.3 was successful. Colleagues from NASA highlighted during the S5PVT meeting the need for a degradation correction for the measured radiances (Level 1B product).

Outlook

- The 7th ESA/Copernicus Atmosphere Monitoring Service (CAMS) progress meeting will take place on 5th November.
- The generation and validation/verification of the Ozone and CLOUD NRT products (processors version 2) will continue during the next weeks.