



Mission Status Report 83

Reference Period: 16-31 Mar. 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

- Operations of FOS (Flight Operations Segment) and PDGS (Payload Data Ground Segment) have been nominal during the reporting period. Routine scheduling, acquisition, processing and dissemination tasks were performed without major anomalies.

Level 1B / Level 2 processors

- The DLR-UPAS team has delivered an improved Level 2 processor version that includes the handling of the upcoming Level 1B product Version 2 and corrections for degradation in the radiance measurements on 16th March. This processor, together with updated KNMI and RAL processor versions, is foreseen to be implemented into the PDGS until early June 2021.

Cal/Val Activities

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

Outlook

- The PDGS and MPC (Mission Performance Centre) teams are working towards the milestone of June 2021, when new L1 and L2 processors will be released.

