

Mission Status Report 58

Reference Period: 01-15 Mar. 2020

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 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.
- A new version of the PDGS was released on 11th March 2020, including the operational switch to the RAL processor that handles new S-NPP cloud input data.
- Few orbits are missing in NRTI (but are available in OFFL) due to problems in the acquisition systems on 14th March: 12525 (20%), 12526 (100%), 12527 (80%)

Level 1B / Level 2 processors

- A new version of the UPAS Level 2 processor (02.01.01) fixing few bugs will be delivered to PDGS within the second quarter of 2020.

Cal/Val Activities

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

Outlook

- It is planned to release soon a new configuration of the KNMI L2 processor to improve the quality of the NO₂ products.

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