

Mission Status Report 55

Reference Period: 16-31 Jan. 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.
- Due to a ground segment anomaly in the interface with the auxiliary data source for S-NPP, there is a degradation in the Methane and Aerosol Layer Height (both Offline) data quality for the orbit range 11620 - 11745 (10 - 19 January 2020). The reprocessing of these orbits will be performed during the next weeks.

Level 1B / Level 2 processors

- On 26th January KNMI delivered a new Level 2 processor (version 2.1) for implementation into the PDGS during this year.
- The processing of the Diagnostic Data Set (DDS) with the version 2 of the Level 1b processor has been stopped to allow the validation of the PDGS version 2.6.

Cal/Val Activities

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

Outlook

- A new release of the PDGS will be performed until end of March 2020, including the operational switch to the RAL processor that handles new S-NPP cloud input data.

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