

Mission Status Report 52

Reference Period: 01-15 Dec. 2019

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 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.
- Acquisition errors caused data gaps and corruption in orbits 11158 (10% missing) and 11159 (20% with gaps and data corruption).
- As from 11th December, the PDGS is using a new interface to access the NOAA provided VIIRS cloud products to improve the timeliness of the Methane product dissemination to the public.

Level 1B / Level 2 processors

- The RAL team has delivered an upgraded S-NPP cloud processor to handle a new S-NPP data set on 6th December 2019 for implementation into the PDGS until February 2020.
- On the same date, DLR delivered a new Level 2 processor (version 2.1) for implementation into the PDGS during 2020.

Cal/Val Activities

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

Outlook

- The Methane product dissemination will be gradually optimised until 20th December 2019 within the PDGS to reach a dissemination time (after measurement) of about 2 days instead of 6 days.

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