

## Mission Status Report 53

Reference Period: 16-31 Dec. 2019

### Mission Status

#### Overall

- The mission, in Phase E2 (Operations Phase) since 24<sup>th</sup> 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](https://s5phub.copernicus.eu)

#### Platform

- All platform subsystems performed nominally.

#### TROPOMI Payload

- The TROPOMI instrument continues measuring in nominal operations baseline with the 360 orbit repeat cycle and since 6<sup>th</sup> 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.
- The data Hub services were interrupted on 30 December 2019 for five hours due to a failure on a Cluster.
- As from 20 December 2019 a new interface to access the NOAA provided S-NPP VIIRS cloud products is fully operational to improve the timeliness of the Methane product dissemination to the public (data availability within ~2 days as compared to ~7 days). This timeliness allows now the CAMS service to start to include Sentinel-5 Precursor Methane products into their data assimilation system

#### Level 1B / Level 2 processors

- The processing of the Diagnostic Data Set (DDS) with the version 2 of the Level 1b processor is foreseen to be finalized within January 2020.

#### 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 March 2020, including the operational switch to the RAL processor that handles new S-NPP cloud input data.

sentinel-5p

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