

## Mission Status Report 31

Reference Period: 16-31 Jan. 2019

### Mission Status

#### Overall

- The mission is in Phase E2 (Operations Phase), which has started on 24<sup>th</sup> April with the so-called “ramp-up” phase. In this period, the Payload Data Ground Segment (PDGS) services will be gradually improved to reach full operations capacity.

#### Data availability and access

- Level 1B Radiance/Irradiance (Offline); Formaldehyde, Sulphur Dioxide, Carbon Monoxide, Total Ozone, Nitrogen Dioxide, Aerosol Index and Cloud products (Offline and NRT) are available to the public via the Copernicus Sentinel-5 Precursor Pre-Operations Data Hub – s5phub.copernicus.eu.
- Pre-operational sample products of Tropospheric Ozone and Methane are provided to validation experts via the Copernicus Sentinel-5 Precursor Expert Data Hub.

#### Platform

- All platform subsystems performed nominally.

#### TROPOMI Payload

- The TROPOMI instrument continues measuring in nominal operations baseline with the 360 orbit repeat cycle started on 30<sup>th</sup> April 2018.

#### 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 Copernicus Sentinel-5P Pre-Operations Data Hub was unavailable on 26 January 2018 (~4 hours) due to an unplanned power outage.

#### Level 1B / Level 2 processors

- An updated version of the Level 2 processors from KNMI (V01.03.00) has been delivered on 1<sup>st</sup> February 2019 for implementation into the PDGS. This processor includes improved algorithms for the Aerosol Layer Height (still to be released to the public) and the Nitrogen Dioxide products.
- Reprocessing of Methane products has finished on 28<sup>th</sup> January 2019.

#### Cal/Val Activities

- Tropospheric Ozone and Methane geophysical validation activities are ongoing and the validation meeting to assess their uncertainty characterisation is planned to take place on 20<sup>th</sup> February 2019.

#### Outlook

- It is planned to release the Tropospheric Ozone and Methane products to the public within February 2019.

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