

## Mission Status Report 34

Reference Period: 01-15 Mar. 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. The Routine Operations Readiness Review (RORR) meeting, that took place on 5<sup>th</sup> March 2019, marked the end of the “ramp-up” phase.

#### 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](http://s5phub.copernicus.eu).
- The Tropospheric Ozone and Methane products were released to the public on 1<sup>st</sup> March - [http://www.esa.int/Our\\_Activities/Observing\\_the\\_Earth/Copernicus/Sentinel-5P/Methane\\_and\\_ozone\\_data\\_products\\_from\\_Copernicus\\_Sentinel-5P](http://www.esa.int/Our_Activities/Observing_the_Earth/Copernicus/Sentinel-5P/Methane_and_ozone_data_products_from_Copernicus_Sentinel-5P). Reprocessed Methane products used for geophysical validation have been made available (12<sup>th</sup> March) as well to the public. All data can be downloaded from the Copernicus Sentinel-5P Pre-operations 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.
- Orbit 7262 (25%) and 7263 (50%) were partially lost due to an antenna scheduling error.

#### Level 1B / Level 2 processors

- The updated version of the Level 2 processor from KNMI (V01.03.00) will be deployed in the PDGS by the end of March. This processor includes the first pre-operational version of the Aerosol Layer Height retrieval algorithm - a product that has still not been released to the public - and an improved Nitrogen Dioxide retrieval algorithm.

#### Cal/Val Activities

- The routine validation activities for the publicly released products continued nominally and the online results are available at <http://mpc-vdaf.tropomi.eu/index.php/>.

#### Outlook

- Deployment of an updated version of the Level 2 processor from KNMI and the generation of Aerosol Layer Height sample products to be used for geo-physical validation.

## sentinel-5p

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