

## Mission Status Report 60

Reference Period: 01-15 Apr. 2020

### 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 Absorbing 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 a 360 orbit repeat cycle and since 6<sup>th</sup> 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.
- An acquisition anomaly of irradiance and radiance measurements has following impact:
  - all NRT products have degraded data quality for the orbits 12810 (03/04/2020) - 12840 (05/04/2020)
  - all NRT and Offline products have data gaps within the orbits 12822 (30%), and 12823 (90%)
  - for the Sulphur Dioxide NRT product the data quality degradation lasted until the end of day 13/04/2020
  - the Offline products Aerosol Absorbing Index, Aerosol Layer Height and Cloud have degraded data quality for the orbits 12800 - 12821

#### Level 1B / Level 2 processors

- A new version of the UPAS Level 2 processor (02.01.01) including few bugs fixes has been delivered to PDGS on 9<sup>th</sup> April 2020.

#### Cal/Val Activities

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

#### Outlook

- It is planned to activate the KNMI L2 processor 01.04.00 and the new UPAS Level 2 processor version 02.01.01 within the PDGS during June 2020 (postponed due to the current COVID-19 situation).

sentinel-5p

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