



## Mission Status Report 67

Reference Period: 16-31 Jul. 2020

sentinel-5p

→ GLOBAL AIR MONITORING  
FOR COPERNICUS

### 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. Routine operations have not been affected by COVID-19.

#### 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 though some anomalies occur.
- The new version of the DLR/UPAS L2 processors was activated within the PDGS on 16<sup>th</sup> July 2020 in order to improve the quality of the Total Ozone, Sulphur Dioxide, Formaldehyde and Cloud products.
- Due to a problem with the acquisition of the irradiance data measured during orbit 14323, the processing of orbits 14368 - 14376 in Near Real Time on 22<sup>nd</sup> July and 14315 - 14329 in Offline on 18<sup>th</sup>/19<sup>th</sup> July) resulted in degraded data quality (minor for CO and HCHO).
- Due to a ground segment anomaly the near real time processing and dissemination of orbits 14432 (26<sup>th</sup> July) to 14441 (27<sup>th</sup> July) has not been performed. Orbit 14438 was lost also in Offline production.
- Due to a problem with the acquisition of the irradiance data measured during orbit 14398, the Near Real Time processing resulted in:
  - Lost Data for the Carbon Monoxide product on 24<sup>th</sup> July: orbits 14411 (50%), 14412 (100%), 14413 (50%)
  - Degraded quality for the rest of the products (minor for Formaldehyde) in orbits 14411 - 14412
  - Degraded quality for the Formaldehyde, Sulphur Dioxide, Total Ozone and Cloud and O3 products on 27<sup>th</sup> July

#### Level 1B / Level 2 processors

- The generation of the Diagnostic Data Set (DDS) by the PDGS for verification/validation of the planned new version 2 for all processors (Level 1B and Level 2) has started on 24<sup>th</sup> July.

#### Cal/Val Activities

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