



## Mission Status Report 69

Reference Period: 16-31 Aug. 2020

sentinel-5p

→ GLOBAL AIR MONITORING  
FOR COPERNICUS

### 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. 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.
- Sentinel-5 Precursor Orbit Control Manoeuvre (OCM) activities were performed on 26<sup>th</sup> August between 19:13 - 19:57 CEST.

#### 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.
- Some orbits were affected by acquisition problems leading to data loss in variable percentages: orbits 14740 (30%) - 14741 (70%) on 17<sup>th</sup> August; orbits 14868 (40%) - 14869 (85%) on 26<sup>th</sup> August; orbit 14910 (10%) on 29<sup>th</sup> August.
- Data quality is degraded in orbit 14874 (75%) on 26<sup>th</sup> August due to the execution of an OCM.

#### Level 1B / Level 2 processors

- The impact of the recent PDGS (16<sup>th</sup> July 2020) upgrade on the data quality of the Total Ozone, Sulphur Dioxide, Formaldehyde and Cloud products has been evaluated. Especially for the NRT Total Ozone products significant improvements for measurements at high latitudes have been found.

#### Cal/Val Activities

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

#### Outlook

- The validation/verification of the new version 2 of all processors (Level 1B and Level 2) based on the DDS that is being generated by the PDGS has continued during the reporting period.