



## Mission Status Report 65

Reference Period: 16-30 Jun. 2020

### 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 without major anomalies.
- On 24<sup>th</sup> June, parts of the orbits 13981 (35%) and 13982 (60%) were lost due to acquisition problems.

#### Level 1B / Level 2 processors

- The generation of the Diagnostic Data Set (DDS) by the PDGS for verification/validation of the new DLR/UPAS processor has resumed and will be finalized until 6<sup>th</sup> July.

#### Cal/Val Activities

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

#### COVID-19

- To support the ESA/EC and trilateral (ESA/NASA/JAXA) COVID-19 dashboards – [race.esa.int](https://race.esa.int), [eodash-trilateral.eox.at](https://eodash-trilateral.eox.at) – on the topic Air Quality a higher Level product (2 weekly averages of Nitrogen Dioxide measurements) is being generated operationally – [maps.s5p-pal.com](https://maps.s5p-pal.com) – using the Sentinel-5 Precursor Product Algorithm Laboratory (PAL) infrastructure.

#### Outlook

- It is planned to activate a new version of DLR/UPAS L2 processors within the PDGS during mid July 2020 in order to improve the quality of the Total Ozone, Sulphur Dioxide, Formaldehyde and Cloud products.

### sentinel-5p

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