



## **Mission Status Report 80**

Reference Period: 01-15 Feb. 2021

**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.

#### **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.
- The PDGS team is working on the setup (using cloud infrastructure) of a new system that will be used for a full Sentinel-5P mission reprocessing activity to be performed within this year.

#### **Level 1B / Level 2 processors**

- The DLR-UPAS and RAL teams are working on improved L2 processor versions, to be delivered until the second week of March. These processors are foreseen to be implemented into the PDGS and released until mid May 2021 together with new KNMI processor versions, which were already delivered.

#### **Cal/Val Activities**

- The routine validation activities continued nominally for the publicly released products.
- Preliminary validation of the Nitrogen Dioxide data produced with the KNMI processor version 1.4 deployed on 2<sup>nd</sup> December 2020, reveal an increase of the tropospheric Nitrogen Dioxide vertical column amount for anthropogenic emission, as expected.

#### **Outlook**

- The PDGS and Mission Performance Centre (MPC) teams are working towards the milestone of May 2021, when new L1 and L2 processors will be released.

