



## Mission Status Report 89

Reference Period: 16-30 Jun. 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.
- A manoeuvre was executed on 23<sup>rd</sup> June. The SWIR detector shows a very small variation of its temperature in orbit 19144 due to the manoeuvre.

#### 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 (Flight Operations Segment) and PDGS (Payload Data Ground Segment) has been nominal. Routine scheduling, acquisition, processing and dissemination tasks were performed without major anomalies.
- On 21<sup>st</sup> June parts of the orbits 19116 (40%) and 19117 (60%) were lost due to acquisition problems.

#### Level 1B / Level 2 processors

- The updated processors Level 1B version 2, Level 2 version 2.2 and RAL-SNPP version 1.3 were qualified and are ready to become operational on 5<sup>th</sup> July 2021.

#### Cal/Val Activities

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

#### Outlook

- On 5<sup>th</sup> July 2021 a significant update of PDGS will be performed, including upgraded L1B and L2 products. This represents a major milestone for the Sentinel-5P mission.

