



Mission Status Report 64

Reference Period: 01-15 Jun. 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

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 6th 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 12th June some orbits were affected by a network problem leading to data loss in variable percentages only in Near Real Time production: orbits 13804 (40%), 13805 to 13810 (100%), 13811 (60%). Offline production was not affected.

Level 1B / Level 2 processors

- The generation of the Diagnostic Data Set (DDS) for verification/validation of the new DLR/UPAS processor is temporarily on-hold due to interface problems.

Cal/Val Activities

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

COVID-19

- To support the ESA/EC COVID-19 dashboard – race.esa.int – on the topic Air Quality a higher Level product (2 weekly averages of Nitrogen Dioxide measurements) is being generated operationally – maps.s5p-pal.com – using the Sentinel-5 Precursor Product Algorithm Laboratory (PAL) infrastructure.

Outlook

- It is planned to activate new versions of the KNMI and DLR/UPAS L2 processors within the PDGS during summer 2020 (postponed due to the current COVID-19 situation).