

Mission Status Report 47

Reference Period: 16-30 Sep. 2019

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.

Data availability and access

- The Aerosol Layer Height product has been released to the public on 30th September and is available on the Copernicus Sentinel-5 Precursor Data Hub – s5phub.copernicus.eu
- Level 1B Radiance/Irradiance, Methane, Tropospheric Ozone (Offline); Carbon Monoxide, Formaldehyde, Nitrogen Dioxide, Sulphur Dioxide, Total Ozone, Aerosol Index 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.
- Two Out Of Plane (OOP) Orbit Control Manoeuvres (OCM) were performed on 27th September with the aim of re-synchronizing the local time of the S5P satellite ascending node with the S-NPP satellite.

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 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.

Level 1B / Level 2 processors

- The new version 2.0 of the L2 processors is being used to generate the Diagnostic Data Set (DDS) for verification/validation purposes.

Cal/Val Activities

- The verification/validation activity of the DDS has started.
- The routine validation activities continued nominally for the publicly released products.

Outlook

- The third Copernicus Sentinel-5 Precursor Quality Working Group (QWG) meeting will take place on 10-11 October at DLR premises, with the aim of discussing the processor algorithm evolutions.

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