

Mission Status Report 35

Reference Period: 16-31 Mar. 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

- 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.

TROPOMI Payload

- The TROPOMI instrument continues measuring in nominal operations baseline with the 360 orbit repeat cycle started on 30th April 2018.

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 included new KNMI processors on 27th - 28th March.
- Orbit 7521 was partially lost (10%) due to acquisition errors.

Level 1B / Level 2 processors

- The updated version of the Level 2 processors from KNMI (V01.03.00) with improved algorithms for the Aerosol Layer Height (ALH) - still to be released to the public - and the Nitrogen Dioxide products, has been deployed in the PDGS on 27th - 28th March (first orbits are 7519 and 7425, in NRT and Offline respectively).

Cal/Val Activities

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

Outlook

- The Second Copernicus Sentinel-5 Precursor Quality Working Group (QWG) will take place on 1st - 2nd April in ESRIN, with the aim of discussing the processor algorithm evolutions.
- The reprocessing of Aerosol Layer Height sample products for geophysical validation and improved Nitrogen Dioxide products will start during April 2019.

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