

Mission Status Report 51

Reference Period: 16-30 Nov. 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, 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 the 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.
- Due to a Copernicus Sentinel-5P Ground Segment anomaly, the Carbon Monoxide products have not been processed in the NRT timeliness between orbit 10933 - 10966 (inclusive). In the same time frame, data gaps and data with degraded quality have been identified for all products generated in NRT Timeliness. The data will be processed in its non-time critical Offline processing.
- The Offline processing of orbit 10856 failed for some products (Methane, Ozone, Sulphur Dioxide, Formaldehyde, Aerosol Layer Height and Nitrogen Dioxide). Investigations are ongoing.

Level 1B / Level 2 processors

- RAL will deliver a new processor that handles a new S-NPP input data until 6th December 2019.
- DLR and KNMI are developing new Level 2 processors (version 2.x) for implementation into the PDGS during 2020.

Cal/Val Activities

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

Outlook

- It is planned that the Methane product will be disseminated to the public within about 2 days after sensing time (instead of a 6 days delay) as from 11th December 2019.

sentinel-5p

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