

Mission Status Report 42

Reference Period: 01-15 Jul. 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.
- A planned orbit manoeuvre was performed on 10th July.

TROPOMI Payload

- The TROPOMI instrument continues measuring in nominal operations baseline with the 360 orbit repeat cycle started on 30th April 2018.
- In parallel to the orbit manoeuvre performed on 10th July, a maintenance activity of the Payload Data Handling Unit (PDHU) was executed.
- A second PDHU activity (PDHU Self-Test) was performed on 15th July.

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 performed an upgrade on 3rd July to include the operational KNMI Level 2 processor version 01.03.02. As expected, few NRT orbits have been lost during the switch time: 8907 (30%), 8908 (100%), 8909 (100%). OFFL orbits are not affected.
- Part of the orbit 9014 (30%) on 10th July was lost (manoeuvre and PDHU maintenance activity).
- Orbits 9079 – 9082 on 15th July were lost due to a PDHU activity and a subsequent error after this activity.

Level 1B / Level 2 processors

- The KNMI Level 2 processor version 01.03.02 (to use the Offline CO processing algorithm also within the NRT chain) has been included into the PDGS on 3rd July.

Cal/Val Activities

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

Outlook

- Major upgraded versions of L1B and L2 processors will be delivered to the PDGS until the end of July.

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