

Mission Status Report 38

Reference Period: 01-15 May 2019

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.

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.
- Few seconds of orbit 8080 were lost due to solar Radio Frequency Interference (RFI).
- The 5th reprocessing campaign has started on 14 May to produce Aerosol Layer Height sample products or validation purposes prior to the public release; Methane for filling the gaps left during the 4th reprocessing campaign; and Total Ozone for the Climate Change Initiative project on ozone.

Level 1B / Level 2 processors

- The KNMI Level 2 processor is being updated (to use the Offline Carbon Monoxide processing algorithm for the NRT processing as well) and will be delivered to The PDGS by end of May, for an operational implementation by the beginning of July.

Cal/Val Activities

- The level 2 teams are analyzing a dataset of 11 orbits generated using the KNMI internal processor version 2.0 of the Level 1B processor. These sample products were produced to test if the planned Level 1B product upgrades have any impact on the existing Level 2 products.

Outlook

- Validation activities on the Aerosol Layer Height product are starting with a planned validation meeting during June to decide about its public release.