

***Mission Status Report 136***

***Reference Period: 01-15 Jun. 2023***

***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.

Operational Products availability and access

* Level 1B Radiance/Irradiance, Level 2 Methane, Tropospheric Ozone (Offline); Aerosol Absorbing Index, Aerosol Layer Height, Carbon Monoxide, Cloud, Formaldehyde, Nitrogen Dioxide, Ozone Profile, Sulphur Dioxide, and Total Ozone products (Offline and Near Real Time) are available to the public via the Copernicus Sentinel-5 Precursor Data Hub – <https://s5phub.copernicus.eu>.

Platform

* All platform subsystems performed nominally.

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 about 5.5 km along-track and 3.5 km across-track.

Ground Segment

* The status of both Flight Operations Segment (FOS) and Payload Data Ground Segment (PDGS) has been nominal. Routine scheduling, acquisition, processing, and dissemination tasks were performed without major anomalies.

Level 1B / Level 2 processors

* The upgraded Sulphur Dioxide processor has been delivered on 9th June by DLR to the PDGS for operational implementation. This new processor includes the Sulphur Dioxide Layer Height information into the product.

Cal/Val Activities

* The routine validation activities continued nominally for all products.

PAL Activities

* Six pre-operational products (Aerosol Optical Thickness, Bromine Monoxide, Glyoxal, Sun-Induced Fluorescence, Water Vapour, and a Sulphur Dioxide product using the new Covariance-Based Retrieval Algorithm (COBRA)) are being provided to the public via <https://data-portal.s5p-pal.com>.

***Outlook***

* The data access for all Copernicus products is being transferred to the new Copernicus Data Space Ecosystem. It is expected that the access for Sentinel-5P data will be provided by this new Ecosystem until September 2023.
* The next PDGS upgrade is planned during July (including an improved Sulphur Dioxide product).

*Report prepared by the ESA Sentinel-5 Precursor Team*