



sentinel-5p

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→ GLOBAL AIR MONITORING

Mission Status Report 20 Reference Period: 01-15 Aug. 2018

Mission Status

Overall

 The mission is in Phase E2 (Operations Phase), which has started on 24th April with the so-called "ramp-up" phase (8 months duration). During this period the Payload Data Ground Segment (PDGS) services will be gradually improved to reach full operations capacity.

Data availability and access

- Level 1B Radiance/Irradiance, Carbon Monoxide, Total Ozone, Nitrogen Dioxide, Aerosol Index and Cloud products are being provided to the public via the Sentinel-5 Precursor Pre-Operations Data Hub – s5phub.copernicus.eu.
- Pre-operational sample Level 2 products (e.g. sulphur dioxide, formaldehyde) are being provided to selected Cal/Val teams only, via the Sentinel-5 Precursor Expert Data Hub. These data are subject of geophysical validation prior to their public release.

Platform

- All platform subsystems performed nominally.
- An Collision Avoidance Manoeuvre was executed on 12th August.

TROPOMI Payload

- The TROPOMI instrument continues measuring in nominal operations baseline with the 360 orbit repeat cycle started on 30th April.
- TROPOMI was not recording data (though it remained in nominal operations) for approximately 20 hours between 11th and 12th August due to the execution of an Collision Avoidance Manoeuvre.

Ground Segment

- On 4th and 5th August, problems with the scheduling of the acquisition resulted in data gaps affecting the obits [4187-4192] and [4199-4205].
- A problem in the PDGS firewall affected the nominal PDGS activities with subsequent degradation of the Level 2 data between 10th and 12th August.

Level 1B / Level 2 processors

 New Level 2 processors (V1.1.2) were activated on 8th August including further improvements (bug fixing) for the products with planned release during early October 2018.

Cal/Val Activities

The Cal/Val teams are preparing the validation of the Level 2 products that are planned to be released to the public during early October 2018.

Outlook

Perform reprocessing of Level 2 products with version (V1.1.2) (including selected orbits from the Commissioning Phase) for the validation experts to enable geophysical validation of the products planned to be released to the public during early October 2018 (Sulfur Dioxide (NRT & OFFL), Formaldehyde (NRT & OFFL), Tropospheric Ozone (OFFL), and Total Ozone (OFFL)).

