

Mission Status Report # 4

Reference Period: 5 – 11 March 2016

sentinel-3

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Mission status

- The overall mission status is nominal.
- All instruments are ON using the nominal side and are providing data as expected at this stage in commissioning.
- The satellite is in the nominal orbit with a ground track within the +/- 1km band around its reference.
- The X-Band ground station in Svalbard continues to successfully acquire data without interruption.
- The in orbit Cal/Val phase has started on 5 March as planned.

Satellite

- All subsystems and units are operating nominally.
- The spacecraft (S/C) is in NORMAL mode, the high bit rate for telemetry and Attitude and Orbit Control System (AOCS) is in NOMINAL mode (geodetic with yaw steering).
- All instruments are functioning well and are now in nominal measurement modes with the (expected) exception of the SLSTR cool-down which will be performed and verified after completed decontamination. In summary:
 - SRAL is switched ON, with mode switched between LRM CL and SAR CL. CAL1 and CAL2 calibrations regularly scheduled via the same mechanism..
 - SLSTR-A is switched ON in CPE Heater mode and CDE Decontamination mode. Scanning is enabled and measurement data of the three visual channels are provided.
 - OLCI-A is switched ON in Normal Mode.
 - MWR-A is switched ON in Measurement Mode.
 - DORIS-A is switched ON in Measurement Mode with DIODE Routine Navigation.
- Extensive calibration exercises have started to verify the performance of all instruments.

Ground Segment

- The FOS ground segment is nominal. Contacts scheduling is nominal with 10 passes per day over Kiruna, Svalbard or Troll, and EUMETSAT continues to listen in.
- The Payload Data Ground Segment commissioning continues as planned.
- The Core Ground station (CGS) service is nominal.
- Housekeeping telemetry (HK TM) circulation to ESA and EUMETSAT FOS is nominal.
- Level 0 production continues successfully for all instruments at the Core Ground Station in Svalbard and at EUMETSAT's marine centre.
- Mission planning continues successfully providing updates of the Nominal Payload Planning File (NPPF) to allow the on-board commanding of data download to the X-band station.

Outlook

- The S-3A Cal/Val phase continues, with extensive calibration activities ongoing.

User interface and communication

- Users will be informed about the availability of sample data and their distribution in due time.