

## Mission Status Report #16

### Reference Period: 28 May – 3 June 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.
- The in orbit Cal/Val phase is on-going 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 in nominal measurement modes. In summary:
  - SRAL is operating in 100% SAR mode.
  - SLSTR is operating in nominal (ON-DUTY) mode.
  - OLCI is operating in Normal Mode.
  - MWR is operating in Measurement Mode.
  - DORIS is operating in Measurement Mode with DIODE Routine Navigation.
- Extensive calibration exercises are on-going to verify the performance of all instruments. In particular:
  - For OLCI the calibration activities continue. The release of OLCI data to expert users has started on 11 May.
  - For SLSTR the functional and performance tests show that the instrument is working as expected. The various calibration activities continue as planned. The release of the first SLSTR data to Expert Users is planned for the week of the 6<sup>th</sup> of June.
  - For SRAL, the calibration activities continue with a focus on the validation of the updated OLTC.
  - For MWR calibration is continuing nominally.
  - For the topographic instruments (SRAL, MWR, GNSS, DORIS) the release of the data to expert users is planned for mid-June.

### Ground Segment

- The FOS ground segment is nominal. Contacts scheduling is nominal with 10 passes per day (Monday to Friday) over Kiruna, Svalbard or Troll (reduced to 6 during week-end).
- EUM is taking 2 of the 10 passes per day (Monday to Friday) during which selected commanding of S3A Spacecraft by EUMETSAT FOS continues successfully as part of its validation in view of the later handover of operations from ESA to EUMETSAT.
- In this period the commanding in Secure mode has started.
- 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. Level 1 data production continues at the Processing and Archiving Centres (PAC) and EUMETSAT's marine centre for all instruments.
- 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.