

## Mission Status Report #11

Reference Period: 23 – 29 Apr 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 since 12 April.
  - 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 Mid-Term Review (MTR) has been successfully performed on 26 April and the roadmap for the release of the first OLCI data to expert users agreed.
  - For SLSTR the functional and performance tests show that the instrument is working as expected. The various calibration activities continue as planned.
  - For SRAL, the results of the SAR mode executed since 12 April are already very good. For example the Sea Level Anomaly (SLA) computed over ocean is very close to Jason-2, i.e. only 2mm difference for the mean value.
  - For MWR the first wet tropospheric correction results look promising.

### 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.
- First commanding of S3A Spacecraft by EUMETSAT tested successfully.
- 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) 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.
- The release of first OLCI data to Expert Users is confirmed for next week pending some final checks.

### User interface and communication

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