

# sentinel-3

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## MISSION STATUS 1 March – 10 April 2017

### OVERALL MISSION

- The overall status of the spacecraft is nominal, with all subsystem performing nominally.
- All instruments, including OLCI, SRAL, SLSTR and MWR, are switched on and performing as expected.
- An anomaly re-occurred on 16 March 2017 starting 00:01:00 UTC on SLSTR, causing the instrument temperature to rise from the expected 77K. In the subsequent days the instrument was cooled down again and is at nominal temperatures again since 17 March 2017 for both VIS and IR channels. The respective outages and information about degraded data have been communicated to users through the ESA and EUMETSAT webpages and User Notification Services. The root cause of this anomaly is known and the development of a faster recovery procedure is under development and testing to allow a shorter mission data outage should the anomaly reoccur.
- The Flight Operations Segment (FOS) for Routine Operations is operating nominally.
- The Payload Data Ground Segment (PDGS) for Land and Marine are operating broadly as expected in the mission ramp-up phase, gradually moving towards full operational capacity. Some outages and data delays may continue to occur due to upgrading/maintenance of the PDGS systems and the on-going core data release.
- The orbit phasing between S3A and S3B has been confirmed to shift from 180 to 140 degree, as agreed for implementation by the EC in December 2016.
- ESA and EUMETSAT have jointly finalised the assessment and reached a technical agreement for the implementation of a Tandem phase, i.e. flying Sentinel-3B around 30 seconds apart from Sentinel-3A during the Sentinel-3B commissioning phase. The Tandem phase is planned to last 4-5 months with two drift phases of up to 6 weeks, one before and one after the tandem period. After a first iteration with the Commission on this topic in January 2017, which was received positively, the final assessment was communicated to the Commission in March 2017. The implementation will start in Q2 2017 following their go ahead.

### MISSION MANAGEMENT

- The Sentinel-3A mission is now in the ramp-up phase, moving towards full operational capacity in Q2 2017.
- The joint ESA-EUMETSAT mission management activities continue nominally.

### DATA AVAILABILITY AND ACCESS

- Following the IOCR, some remaining issues affecting the released sample data products needed to be addressed. The following core data products have been released:
  - OLCI Level 1 NRT: 20 October 2016
  - SLSTR Level 1 NRT: 17 November 2016
  - SRAL L1B and L2 NRT and STC: 13 December 2016
  - OLCI Level 1 NTC: 14 December 2016
  - SLSTR Level 1 NTC: 19 January 2017
  - SRAL L1B NTC: Jan 2017
  - SRAL L1A: 6 March 2017

The current plan for further core data product releases is (TBC):

- SRAL L1BS STC: April 2017
- OLCI L2 and SLSTR L2: Q2 2017.
- SYN/VGP: Q2/ 2017
- AOD and FRP: Q4 2017/Q1 2018.
- In the meantime, the following sample data products continue to be available to Sentinel-3A expert users:

Data product (*)	Released on (2016)	Available data (2016)
OLCI L2 over land (ESA)	20 June	20 June - today
OLCI L2 over ocean (EUMETSAT)	22 June	22 June - today
SLSTR L2 - LST (ESA)	20 June	9 June - today
SLSTR L2 - SST (EUMETSAT)	21 June	21 June – today
SRAL L1A/1BS	21 Dec	21 Dec

### USER INTERACTION

- The Sentinel-3 Quality Working Groups met for the 2<sup>nd</sup> time in the December 2016/ February 2017 time frame.
- The Sentinel-3 Validation Team (S3VT) meeting took place on 15-17 February 2017 at ESA-ESRIN, Frascati, Italy.
- The Routine Operations Readiness Review (RORR) is foreseen for Q2 2017.

### OUTLOOK

- Release of operationally qualified core data products - see above for schedule.

Report prepared by the ESA and EUMETSAT Sentinel-3 Operations Team