

MISSION STATUS 7 SEPT – 12 OCT 2016

sentinel-3

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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 perform nominally.
- A FPU trap anomaly occurred on SLSTR on 25 July 2016 at 03:44:04z. Immediate recovery actions were taken which led to the SLSTR IR detector temperatures to stabilise at a slightly higher level than expected (~1K). The impact of the slight increase in temperature on the quality of SLSTR radiances and the retrieved products was assessed but appeared to have reached an equivalent level as that seen prior to the anomaly. A detailed investigation was carried out and a decontamination was performed, starting on 30 September, resulting in the SLSTR IR detector temperatures to return to the nominal level. The VIS channels were back at nominal operation on 4 October, the IR channels on 6 October. Expert user were informed of the data outage.
- The Flight Operations Segment (FOS) is operating nominally.
- The Payload Data Ground Segment (PDGS) is operating broadly as expected in the initial part of the mission ramp-up phase, gradually moving towards full operational capacity. Some outages and data delays occurred due to recent upgrading of the PDGS systems in preparation of full operations. Noticeably the implementation of the new v3 of the PDGS will provide additional SRAL L1A and L1B-S data products.

MISSION MANAGEMENT

- The Sentinel-3A commissioning phase ended on 12th July with the successful passing of the In-Orbit Commissioning Review (IOCR). The mission is now in the ramp-up phase, moving towards full operational capacity at approximately IOCR + 9 months.
- The handover between ESA's Sentinel-3A development and operations teams took place on 13th July, followed by the handover of the responsibility for the routine operations of the spacecraft from ESA to EUMETSAT. The handover of the Marine PDGS from ESA to EUMETSAT took place on 10 October, following the successful acceptance of the PDGS (v3).

DATA AVAILABILITY AND ACCESS

- Following the IOCR, some remaining issues affecting the released sample data products needed to be addressed. The current plan for official core data product release is as follows (TBC):
 - OLCI L1 NRT: by 21 October 2016
 - OLCI L2: early 2017.
 - SLSTR L1 NRT: w/c 14 November 2016
 - SLSTR L2: early 2017
 - SRAL L1A, L1B and L2 NRT and STC: early Dec 2016
 - SRAL L1B-S: w/c 16 January 2017
 - SYN: beginning of 2017
 - Aerosol Optical Depth (AOD) and Fire Radiative Power (FRP): mid-2017.
- In the meantime, the following sample data products continue to be available to Sentinel-3A expert users:

Data product (*)	Released on	Available data
OLCI L1 (FR)	11 May	9 May - today
OLCI L2 over land (ESA)	20 June	20 June - today
OLCI L2 over ocean (EUMETSAT)	22 June	22 June - today
SLSTR L1	13 June	8 June – today
SLSTR L2 - LST (ESA)	20 June	9 June - today
SLSTR L2 - SST (EUMETSAT)	21 June	21 June – today
SRAL L1B (**)	15 June	6 April – 6 May (SAR), 9-12 April (LRM); 18 June- today
SRAL L2 over land (ESA)	15 June	6 April – 6 May (SAR), 9-12 April (LRM) 18 June- today
SRAL L2 over ocean (EUMETSAT)	15 June	6 April – 6 May (SAR), 9-12 April (LRM)

(*) SYN, AOD, FRP products to be released in ramp-up phase
(**) full L1A, L1BS available from PDGS v3 only

USER INTERACTION

- The Sentinel-3 Quality Working Groups will meet for the 2nd time in the December 2016/ January 2017 time frame.
- **Please note change of date:** A Sentinel-3 Validation Team (S3VT) meeting is planned for 15-17 February 2017 at ESA-ESRIN, Frascati, Italy.

OUTLOOK

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

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