MISSION STATUS : 7 September 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.
- The Flight Operations Segment (FOS) for Routine Operations is operating nominally.
- The Payload Data Ground Segment (PDGS) for Land and Marine are operating as expected in the final stages of the mission ramp-up phase, with full operational capacity achieved on 5th July, which will be formally confirmed at the S3A Routine Operations Readiness Review on 16 October.
- The SLSTR instrument experienced a computer double bit-error on 30 July whilst passing through the South Atlantic Anomaly. As a result the instrument performed a safe, protective shutdown. The instrument decontamination started on 31 July and the instrument returned to nominal mode on 6 August. IR channel outage lasted from 14:33 on 30/7 to 11:04 on 6/8 and VIS channel outage from 15:50 on 31/7 to 08:39 on 4/8
- 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, implementation of this change is ongoing in the Ground Segment.
- 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. The final implementation has been agreed with the Commission and activities have now started.

MISSION MANAGEMENT

- The Sentinel-3A mission has now reached the full operational capacity.
- The joint ESA-EUMETSAT mission management activities continue nominally.

DATA AVAILABILITY AND ACCESSS

- All Level 1 core data products have been released.
- OLCI and SLSTR Level 2 core data products over land and ocean were released to all users on 5 July 2017 (note: SRAL level 2 core data products over land and ocean have been released already at the end of 2016).
- Since June 2017 sample products for the Level 2 synergy product are available to expert users, with an official release being planned for autumn 2017
- The definition and implementation of the two new core data products, as requested by the European Commission, namely the Aerosol Optical Depth (AOD) and Fire Radiative Power (FRP) is on-going with sample products being available towards the end of 2017/early 2018 and an official release being planned shortly thereafter.
- The reprocessing of the SRAL data, including the commissioning phase, is completed and the data are now in the process of being made available to all users.
- A further SRAL reprocessing and the reprocessing of the OLCI and SLSTR data, including the commissioning phase, is planned for end of 2017/early 2018.

USER INTERACTION

- The next Sentinel-3 Quality Working Groups will take place for
  - SLSTR: winter 2017/2018 TBC
  - OLCI: autumn 2017 TBC
  - Altimetry: 14 November 2017

OUTLOOK

- Formalisation of Sentinel-3A full operations at the RORR in October 2017.

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