

MISSION STATUS : 4 July 2018

sentinel-3

→ A BIGGER PICTURE FOR COPERNICUS

SENTINEL-3B

Sentinel-3B has been successfully launched on 25 April 2018 and is now in the commissioning phase with routine operations expected to start at the beginning of 2019. First sample data for OLCI and SRAL have been released to the Sentinel-3 Validation Team end of June 2018. The release of SLSTR L1 sample data is planned for beginning of July 2018. The tandem position has been reached on 6 June 2018, placing Sentinel-3B 30 sec in front of Sentinel-3A. The In-Orbit Commissioning Review is planned for mid-October 2018.

SENTINEL-3A

OVERALL MISSION

- The overall status of the Sentinel-3A spacecraft is nominal, with all subsystem performing nominally.
- All instruments, including OLCI, SRAL, SLSTR and MWR, are switched on and performing as expected.
- Due to an OLCI instrument anomaly on starting 21 June 2018, products from 21 June 15:23 UTC until 22 June 09:32 are degraded (Level 0) or missing (Level 1 and 2).
- The Flight Operations Segment (FOS) is operating nominally.
- The Payload Data Ground Segment (PDGS) for Land and Marine are operating as expected.
- Since October 2017 Sentinel-3A is in routine operations, having reached full operational capacity.
- The joint ESA-EUMETSAT mission management activities continue nominally.
- For Sentinel-3B two changes have been implemented for the overall mission: The orbit phasing between S3A and S3B will shift from 180 to 140 degree, and S3A and S3B is flying 30 seconds apart in the Tandem phase, which is planned to last 4-5 months with two drift phases of up to 6 weeks, one before and one after the Tandem period.

DATA AVAILABILITY AND ACCESS

- All Level 1 and Level 2 core data products have been released.
- Since June 2017 Level 2 synergy product are available to expert users, with an official release being planned for Q3 2018, following an upgrade of the processor baseline.
- 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 AOD products expected to be available in July 2018 and FRP in Q3 2018 with the official release planned shortly thereafter following a period of validation.
- Reprocessing activities are on-going:
 - SRAL, a full mission reprocessing (starting from 1 March 2016) has been completed for both the Land and the Marine products and made available to the Sentinel-3 Validation Team members. The full data is available from EUMETSAT's and ESA's open data hub.
 - OLCI: level 1 and 2 data reprocessing has finished, granule based data are available from EUMETSAT's dissemination system, PDU based data are available from ESA's dissemination systems since beginning of March 2018.
 - SLSTR: level 1 and 2 data reprocessing has started in June 2018 using the updated cloud masking which is now implemented and operational. Release of reprocessed SLSTR data is expected in Q3/2018.
- A new Sentinel GNSS L1B RINEX user product has been officially released for the Sentinel-1, -2 and -3A satellites from the Copernicus Data Hub service.
- A new interactive website, www.altimetry-hydro.eu, offers the possibility to display OLTC elevation tables on-board Sentinel-3 SRAL altimeters.
- A new website comprising all information for the Sentinel-3 Validation Team is now available on www.s3vt.org.
- For more information on data access see: <http://copernicus.eu/data-access>

USER INTERACTION

- The next Sentinel-3 Quality Working Groups will take place for
 - QWG Altimetry: 16-17/10/18 (ESRIN)

OUTLOOK

Sample Sentinel-3B OLCI and SRAL data products are available for expert users since end of June 2018. The release of SLSTR sample data is planned for beginning of July 2018.

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