

## MISSION STATUS : 2 October 2018

## sentinel-3

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### SENTINEL-3B

Sentinel-3B, launched on 25 April 2018, is approaching the end of its commissioning phase, with the In-Orbit Commissioning Review (IOCR) planned on 17 October 2018 at ESA-ESRIN. First sample data for OLCI, SRAL and SLSTR have been released to the Sentinel-3 Validation Team in June and September 2018, respectively. The official release of the Level 1 to the entire user community is expected following the IOCR. The Tandem position was reached on 6 June 2018, placing Sentinel-3B 30 seconds in front of Sentinel-3A and will complete on 16 October with the start of the second drift phase. This final drift will move Sentinel-3B to its expected nominal orbital position 140 degree in front of Sentinel-3A and should be completed by 22<sup>nd</sup> November after which the handover of the spacecraft operations will transfer to EUMETSAT.

### SENTINEL-3A

#### OVERALL MISSION

- The overall status of the Sentinel-3A spacecraft is nominal, with all subsystems performing nominally.
- All instruments, including OLCI, SRAL, SLSTR and MWR, are switched on and performing well.
- 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.

#### DATA AVAILABILITY AND ACCESS

- All Level 1 and Level 2 core data products have been released.
- Since June 2017 Level 2 synergy products are available to expert users, with an official release being planned for beginning of October 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 products expected to be available at the earliest in Q4 2018 with an official release planned shortly thereafter following a period of validation.
- Reprocessing activities are on-going. For SRAL, a full mission reprocessing (starting from 1 March 2016) has been completed for both the Land and the Marine products and the Land products have been made available to the Sentinel-3 Validation Team members. Based on positive feedback from the Sentinel-3 Validation Team the Land products release is scheduled to take place in Q3/4 2018. The Marine products are available to all users on CODAREP. For SLSTR, Level 1 and 2 data reprocessing started in June 2018 and was completed in September 2018, including an updated cloud masking. The release is planned for Q4 2018. For OLCI a full mission reprocessing from 25th of April 2016 has been carried out and made available to users in September 2018.
- The Sentinel GNSS L1B RINEX user product for the Sentinel-1, -2 and -3A satellites is available from the Copernicus Data Hub service.
- A new interactive website, [www.altimetry-hydro.eu](http://www.altimetry-hydro.eu), offers the possibility to display OLTC elevation tables on-board Sentinel-3 SRAL altimeters.
- An update of the on-board OLTC tables for both Sentinel-A and -3B to improve the monitoring of rivers and lakes water surface has been completed. This update will increase the number of included targets (more than 30.000 new virtual stations). The upload to Sentinel-3B is planned shortly as part of the commissioning phase activities and following its successful validation it is planned also to update Sentinel-3A with the same mask.
- A new website comprising all information for the Sentinel-3 Validation Team is now available on [www.s3vt.org](http://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: 22-23 November 2018 (ESRIN)
  - OLCI QWG: 29-30 November 2018
  - SLSTR QWG February 2019 (EUMETSAT).

#### OUTLOOK

Sample Sentinel-3B SLSTR L1, OLCI L1 & L2 and SRAL L1 & L2 data products are available for expert users with progressive releases since June 2018. The release of SLSTR L2 sample data is planned for mid-October following an update of the processing baseline.