

# sentinel-1

→ RADAR VISION FOR COPERNICUS

## Mission Status Report 66

Reference Period: 28 July 2015 – 3 August 2015

### Mission status

- The Sentinel-1A routine operations are on-going
- A Sentinel-1 invited session called “*Sentinel-1 Operational and Scientific Results after one Year in Orbit*” was organised for IGARSS 2015 in Milan. Very good results were presented during the whole Conference, with positive feedback related in particular to the free and open data policy, the large scale mapping and high revisiting frequency provided by the mission, the data quality and the suitability for interferometry
- Sentinel-1 data can be accessed from: <https://sentinels.copernicus.eu>
- The observation scenario supports the systematic coverage of a first set of Copernicus Services areas of interest, of European land and coastal waters, of global tectonic/volcanic areas, as well as of other specific targets worldwide for various applications. The observation plan also includes regular mapping of all land areas worldwide. The dedicated campaign for Antarctica ice sheet monitoring is on-going and will run till early October 2015 indicatively. An overview of the observation scenario is available at: <https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-1/observation-scenario>
- The detailed observation plan in the form of instrument acquisition segments is published on Sentinel Online at: <https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-1/observation-scenario/acquisition-segments>
- The use of Sentinel-1A data by the Copernicus Marine Environment Monitoring Service for sea-ice and iceberg monitoring activities is on-going
- The Flight Operations Segment (FOS) ensuring the monitoring, control and commanding of the satellite is operating nominally. Orbit control manoeuvres are performed once a week typically
- A satellite unavailability started on 3 August at 02:39 UTC. Recovery operations are planned to be completed on 4 August. No SAR acquisitions are performed during this unavailability period
- The Sentinel-1A – Alphasat TDP-1 inter-orbit link characterisation phase is on-going
- X-Band data acquisitions are routinely performed over Matera, Svalbard and Maspalomas X-band core stations. The acquired data are circulated within the PDGS, systematically processed to Level-0 and Level-1 products and archived
- Wave Mode data are regularly acquired over open oceans and systematically processed to Level-2 OCN products. Sentinel-1 IW and EW Level-2 OCN products over regional ocean areas are available to users on the Scientific Data Hub since 26 July 2015. The operational qualification of Level-2 OCN products is on-going, read more at: [https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-1/news/-/asset\\_publisher/R1Tn/content/sentinel-1-ocn-products-now-available](https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-1/news/-/asset_publisher/R1Tn/content/sentinel-1-ocn-products-now-available)
- Operations are performed regularly at the Processing and Archiving Centres (DLR-PAC and UK-PAC). All other PDGS operational services (i.e. Mission Performance, Precise Orbit Determination, Wide Area Network) are operating nominally
- Testing activities with direct receiving collaborative stations are on-going
- Since 21 July, 100% of the IW data acquired over land are systematically produced to SLC, as shown at: <https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-1/production-scenario>
- By 30 July, a total of 9584 users have self-registered on the Sentinels Scientific Data Hub; 1,635,369 product download have been made by users, corresponding to 1.92 PB of data. At the time of publishing this report, more than 210,000 Sentinel-1A products are available on-line for download
- The overall operations mission performance is nominal

### Outlook

- Continuation of routine mission operations

Report prepared by the ESA Sentinel-1 Team -

