

sentinel-1

→ RADAR VISION FOR COPERNICUS

Mission Status Report 64

Reference Period: 14 July 2015 – 20 July 2015

Mission status

- The Sentinel-1A routine operations are on-going
- 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 Sentinel-1A spacecraft is in a stable state, operating in Nominal Mission Mode (NMM), with all sub-systems working on prime units. 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
- Satellite operations will be paused on Wednesday 22 July from 06:00 UTC to 12:00 UTC in order to perform an on-board maintenance activity. No SAR acquisitions will be performed during this period. A detailed observation plan will be published on 21 July on the Acquisition Segments page reflecting the updated satellite planning
- 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
- 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
- The areas where acquired data are systematically processed to Level-1 SLC products are gradually being extended. The SLC production scenario description can be consulted at: <https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-1/production-scenario>
- By 16 July, a total of 9063 users have self-registered on the Sentinels Scientific Data Hub; 1,491,134 product download have been made by users, corresponding to 1.77 PB of data. At the time of publishing this report, more than 196,000 Sentinel-1A products are available on-line for download
- The overall operations mission performance is nominal

Outlook

- Continuation of routine mission operations
- Satellite maintenance on 22 July from 06:00 UTC to 12:00 UTC

