

sentinel-1

→ RADAR VISION FOR COPERNICUS

Mission Status Report 32

Reference Period: 11 November 2014 – 17 November 2014

Mission status

- The Sentinel-1A operational qualification phase is on-going
- The opening of the Sentinel-1 data flow to all users took place on 3rd October. Data can be accessed from: <https://sentinel.esa.int>
- The initial ramp-up observation scenario is being implemented, including in particular coverage of a first set of COPERNICUS Services areas of interest, of European land and coastal waters, of a set of tectonic/volcanic areas, as well as of other specific targets worldwide for various applications. The scenario also includes acquisitions to support the product operational qualification. An overview of the current observation plan is available at: <https://sentinel.esa.int/web/sentinel/missions/sentinel-1/observation-scenario>
- The use of Sentinel-1A data by the pre-operational precursor of the Copernicus Marine Environment Monitoring Service MyOcean for sea-ice and iceberg monitoring activities is on-going
- Sentinel-1A products have been made available to the Copernicus Emergency Management Service for floods and landslides in Italy (activation EMSR108)
- The Sentinel-1A spacecraft is in a stable state, operating in Nominal Mission Mode (NMM), with all sub-systems working on prime units
- The inter-orbit alignment tests between the Sentinel-1A OCP and the Alphasat TDP-1 payload have been completed. The acquisition and tracking tests are on-going.
- X-Band data acquisitions are routinely performed over Matera and Svalbard stations. Acquired data are circulated within the PDGS, systematically processed to Level-0 and Level-1 products and archived
- The gradual integration of the Maspalomas X-band core station and of the DLR Processing and Archiving Centre into Sentinel-1 operations is planned to be completed in December
- Sentinel-1 Level-1 products available to users are preliminary calibrated. Sentinel-1 operational products qualification is being pursued as planned
- The distribution of generated SAR SM, IW and EW L0 & L1 user products is on-going. A subset of the regular products flow is available for download by any user. By 13th November:
 - A total of 3289 users have self-registered
 - Since the opening of the regular data flow on 3 October:
 - 5875 products have been made available for download
 - 23514 product download have been made by users, corresponding to about 32.49 TB
- The overall operations mission performance is nominal

Outlook

- Continuation of ramp-up mission operations

