

sentinel-1

→ RADAR VISION FOR COPERNICUS

Mission Status Report 29

Reference Period: 21 October 2014 – 27 October 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. 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
- 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 are on-going. Two alignment tests per week in average are performed
- 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
- Additional X-band acquisitions at Maspalomas were successfully performed. Validation activities will be completed during the next weeks, followed by the gradual integration of the Maspalomas station in Sentinel-1 operations by end November
- Sentinel-1 Level-1 products available to users are preliminary calibrated. Sentinel-1 operational products qualification will be pursued during the next weeks, as planned
- The distribution of generated SAR SM, IW and EW L0 & L1 user products has started. The regular products flow is available for download by any user. By 20 October:
 - A total of 2832 users are self-registered. This is in addition to the Copernicus core users already registered on the Copernicus Space Component Data Access (CSCDA) infrastructure (about 400 users).
 - Since the opening of the regular data flow on 3 October:
 - 4598 products have been made available for download
 - 9842 product download have been made by users, corresponding to more than 11 TB
- The overall operations mission performance is nominal

Outlook

- Continuation of ramp-up mission operations

