

sentinel-1

→ RADAR VISION FOR COPERNICUS

Mission Status Report 27

Reference Period: 7 October 2014 – 13 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 operational COPERNICUS Marine Core Service MyOcean for sea-ice monitoring activities has started
- The Sentinel-1A spacecraft is in a stable state, operating in Nominal Mission Mode (NMM), with all sub-systems working on prime units
- A satellite planned unavailability took place on 7 October from 06:30 to 21:30 UTC, necessary to upload a new software for the OCP, and on 13 October from 08.00 to 12.30 UTC, for the upload of a software upgrade in the SAR electronics
- A satellite unavailability occurred from 10 October 21.52 UTC to 11 October 11.03 UTC
- The Optical Communication Payload (OCP) related activities have continued and will be pursued over the next days with the first inter-satellite alignment tests
- 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
- 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 systematically generated SAR SM, IW and EW L0 & L1 user products has started. The regular products flow is available for download by any user. By 10 October:
 - A total of 2350 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:
 - 2140 products have been made available for download
 - 16992 successful user downloads have been performed
- The overall operations mission performance is nominal

Outlook

- Continuation of ramp-up mission operations

