

sentinel-1

Mission Status Report 38

Reference Period: 13 January 2015 – 19 January 2015

→ RADAR VISION FOR COPERNICUS

Mission status

- The Sentinel-1A operational qualification phase is on-going, the first yearly Routine Operations Readiness Review is planned in May 2015
- 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 observation plan is gradually complemented with observations outside the above areas to achieve a full mapping of all land areas worldwide before the end of the ramp-up phase. See an overview 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
- A set of Collision Avoidance Manoeuvres was performed on 16 January in order to decrease the probability of potential collision between Sentinel-1A and a piece of orbital debris
- X-Band data acquisitions are routinely performed over Matera and Svalbard stations. The Maspalomas X-band core station is planned to be part of regular operations starting on 23 January 2015.
- The acquired data are circulated within the PDGS, systematically processed to Level-0 and Level-1 products and archived. Operations are performed regularly at the DLR Processing and Archiving Centre (PAC) and at the UK PAC, with a load sharing between the PACs. All other PDGS operational services (i.e. Mission Performance, Precise Orbit Determination, Wide Area Network) are operating nominally
- 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. The regular products flow is available for download by any user. By 15 January:
 - A total of 4898 users have self-registered
 - Since the opening of the regular data flow on 3 October:
 - 44284 products have been made available for download
 - 192368 product download have been made by users, corresponding to about 252 TB of data
- The overall operations mission performance is nominal

Outlook

- Continuation of ramp-up mission operations
- Due to planned on-board software maintenance activities, the Sentinel-1A satellite will be unavailable on 20 January from 7:30 to 18:00 UTC. No products will be available during this time frame.

