

# sentinel-1

## Mission Status Report 37

Reference Period: 16 December 2014 – 12 January 2015

→ RADAR VISION FOR COPERNICUS

### 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 3<sup>rd</sup> 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 (May 2015). 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
- Sentinel-1A data were used to support an activation on 29 December from the International Charter Space and Major Disasters related to floods in Sri Lanka. Data were directly downloaded from the “Scientific/Other use” data hub by UNITAR/UNOSAT. Value-added products based on Sentinel-1 imagery were generated. See at: <https://www.disasterscharter.org/web/guest/-/flood-in-sri-lanka>
- 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 unavailability occurred from 29 Dec 2014 at 20:45 to 30 Dec 2014 at 11:33 UTC
- 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 DLR Processing and Archiving Centre (PAC) is now regularly contributing to the mission operations in addition to the UK PAC. The Maspalomas X-band core station is planned to be part of regular operations starting on 23<sup>rd</sup> January 2015
- 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 6 January:
  - A total of 4724 users have self-registered
  - Since the opening of the regular data flow on 3 October:
    - 37096 products have been made available for download
    - 152763 product download have been made by users, corresponding to about 150 TB of data
- The overall operations mission performance is nominal

### Outlook

- Continuation of ramp-up mission operations

