



# sentinel-1

## **Mission Status Report 33**

→ RADAR VISION FOR COPERNICUS

#### Reference Period: 18 November 2014 – 24 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 3<sup>rd</sup> October. Data can be accessed from: <u>https://sentinel.esa.int</u>
- 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: <a href="https://sentinel.esa.int/web/sentinel/missions/sentinel-1/observation-scenario">https://sentinel.esa.int/web/sentinel/missions/sentinel-1/observation-scenario</a>
- 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 satellite unavailability occurred on 19 November from 8:21 to 14:38 UTC
- In-plane orbit control manoeuvres are regularly performed, once per week in average (frequency may be higher due to the current high solar activity)
- The acquisition and tracking phase of the inter-orbit tests between the Sentinel-1A OCP and the Alphasat TDP-1 payload has been completed. The communication phase characterisation 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 20th November:
  - o A total of 3504 users have self-registered
  - Since the opening of the regular data flow on 3 October:
    - 6289 products have been made available for download
    - 28630 product download have been made by users, corresponding to about 42.38 TB
- The overall operations mission performance is nominal

### Outlook

Continuation of ramp-up mission operations

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Report prepared by the ESA Sentinel-1 Team -