

sentinel-1

→ RADAR VISION FOR COPERNICUS

Mission Status Report 9

Reference Period: 30 May – 5 June 2014

Mission Status

- The satellite Commissioning Phase is on-going
- Initial samples of Sentinel-1A preliminary products are made available on-line to all users since 9 May at <https://senthub.esa.int>. Products are released for familiarisation purpose and to support preparatory user activities. Additional sample data will be made available on Friday 6 June 2014
- To date, 1054 users have self-registered on the 'scientific/other user' data access infrastructure, 567 since 9 May. This is in addition to the Copernicus core users already registered on the Copernicus Space Component Data Access (CSCDA) infrastructure. Since the opening on 9 May, 850 products have been downloaded, corresponding to a volume of 2.1 TB.

Satellite and Ground Segment

- The satellite is in Nominal Mission Mode (NMM), with all sub-systems working on prime units
- Batches of manoeuvres four days a week are commanded to reach the reference orbit from the low injection orbit given by the launcher
- Instrument and platform commissioning activities have continued
- The following spacecraft subsystems have so far been calibrated and verified: propulsion and AOCS, S-band transponder, X-band downlink, thermal subsystem (including during long SAR data takes)
- The SAR verification is on-going and includes, among others, the following: stability check for long data takes in all modes, verification of antenna equipment (including Transmit/Receive modules), verification of the SAR data compression (FDBAQ)
- The SAR payload operations are being planned through the Payload Data Ground Segment (PDGS) mission planning system, focusing on the SAR calibration activities.
- X-Band data acquisition is routinely performed by the PDGS, with a total of 545 X-Band acquisitions handled over Matera and Svalbard stations since launch
- Acquired X-Band data is systematically processed to Level-0 and Level-1 products, archived and made available to the Commissioning Phase Team. A total of 21500 products have been generated to date by the PDGS, representing nearly 22 TB.
- The overall FOS and PDGS status and performance are nominal

Outlook

- Continuation of the commissioning activities
- Continuation of the orbital manoeuvres to reach the reference orbit
- Dissemination of new sample products on <https://senthub.esa.int> for access by all users.

