



# sentinel-1

### → RADAR VISION FOR COPERNICUS

# Mission Status Report 6

Reference Period: 9 May - 15 May 2014

#### **Mission Status**

- The satellite Commissioning Phase is on-going
- The orbital manoeuvres to raise the satellite altitude and reach the reference orbit from the low launcher injection orbit are on going
- An extension of the commissioning phase duration is expected, due to the longer-than-planned reference orbit acquisition phase, which has an impact on the SAR calibration and product qualification activities
- Initial samples of Sentinel-1A preliminary products have been made available on-line to all users on 9 May at <a href="https://senthub.esa.int">https://senthub.esa.int</a>. Data sets are released for familiarisation purpose and to support preparatory user activities
- To date, 791 users have self-registered on the 'scientific/other user' data access infrastructure. 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, 440 products have been downloaded, corresponding to a volume of 812 GB
- The first Sentinel Collaborative Ground Segment agreement was formalised with Greece on 12 May.

## Satellite and Ground Segment

- Batches of orbit raising manoeuvres are systematically executed to reach the reference orbit
- The second debris collision avoidance manoeuvre has been performed successfully on 15 May. A collision with the defunct satellite 'Daichi' (ALOS) might have occurred on 17 May
- The satellite is in Nominal Mission Mode (NMM), with all sub-systems working on prime units, and with the Attitude and Orbit Control System (AOCS) in the operational Nominal Pointing Mode (attitude steering enabled, except during orbital manoeuvres)
- Switch ON and initial testing activities of the Optical Communication
  Payload (OCP) started and are on-going. The OCP will downlink SAR data
  via inter-orbit laser link with the European Data Relay System (EDRS)
  satellites
- The SAR payload operations are being planned through the Payload Data Ground Segment (PDGS) mission planning system, focusing on the SAR calibration activities. Frequent updates of the plans are performed based on the evolution of orbital parameters due to the orbit manoeuvres. No sensing activities are planned during the orbital manoeuvres periods
- The overall Flight Operations Segment (FOS) and PDGS status and performance are nominal.

#### Outlook

- · Continuation of the commissioning activities
- Continuation of the orbital manoeuvres to reach the reference orbit.

