

sentinel-1

→ RADAR VISION FOR COPERNICUS

Mission Status Report 4

Reference Period: 23 April - 30 April 2014

Mission Status

- The satellite Commissioning Phase is on-going
- The orbit acquisition strategy to reach the reference orbit is under finalisation. The first orbital manoeuvres to raise the orbit altitude started on 29 April

Satellite and Ground Segment

- The Commissioning Phase activities are on-going, with the modifications associated to the lower injection orbit (-7.8 km) and to the consequent longer duration of the reference orbit acquisition phase
- The characterisation of the propulsion sub-system has continued based on the execution of both in-plane and out-of-plane calibration manoeuvres
- 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)
- An unavailability of the SAR occurred on 26 April. SAR operations were resumed on 29 April
- The SAR payload is planned through the PDGS mission planning system. Frequent updates of the plans are performed based on the evolution of orbital parameters due to the orbit manoeuvres
- The overall FOS and PDGS status and performance are nominal

Outlook

- Continuation of the satellite commissioning activities
- Continuation of the orbital manoeuvres to reach the reference orbit
- A press event on the 'Sentinel-1A first images with demonstration of applications' is planned on 8 May 2014 in Brussels

