

# sentinel-1

→ RADAR VISION FOR COPERNICUS

## Mission Status Report 8

Reference Period: 23 May – 29 May 2014

### Mission Status

- The satellite Commissioning Phase is on-going
- Sentinel-1 has contributed for the first time to the Copernicus Emergency Management service for an activation related to floods in Bosnia Herzegovina and Serbia – see “[Sentinel-1 aids Balkan flood relief](#)”
- 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 are planned to be made regularly available through this interface and advertised through <https://sentinel.esa.int>
- To date, 986 users have self-registered on the ‘scientific/other user’ data access infrastructure, 499 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, 764 products have been downloaded, corresponding to a volume of 1.57 TB.

### Satellite and Ground Segment

- The satellite is in Nominal Mission Mode (NMM), with all sub-systems working on prime units
- No orbit manoeuvres were performed during week 22, due to the a planned migration of the Flight Operations Segment (FOS) Flight Dynamic server hardware
- The solar-eclipse season has continued with an eclipse event being experienced during each orbit around the South Pole. The eclipse durations are continuing to increase gradually on the approach to the summer solstice. The Electrical Power Subsystem (EPS) is operating nominally
- Instrument and platform commissioning activities have continued. This included monitoring of the platform / payload behaviour during the execution of long SAR data takes of 25 min in Interferometric Wide Swath mode. 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 and systematic processing and archiving are routinely performed by the PDGS and generated products are available to the Commissioning Phase Team
- 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
- Dedicated Sentinel-1 Session at EUSAR workshop scheduled on 3 June 2014

