

sentinel-1

→ RADAR VISION FOR COPERNICUS

Mission Status Report 19

Reference Period: 8 August – 14 August 2014

Mission Status

- The satellite Commissioning Phase is on-going
- A Sentinel-1 image was provided to the International Charter Space and Major Disasters, regarding the activation for an earthquake in Yunnan Province, China
- Sentinel-1A sample datasets products are available on-line to all users at <https://senthub.esa.int>. Products have been released for familiarisation purpose and to support preparatory user activities
- To date, 1593 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, 3216 sample products have been downloaded, corresponding to a volume of 5.4 TB

Satellite and Ground Segment

- The Sentinel-1A spacecraft is in a stable state, operating in Nominal Mission Mode (NMM), with all sub-systems working on prime units
- Sentinel-1A has reached its nominal orbit on 7 August. The orbit maintenance cycle to keep the satellite in its ground track dead-band is on-going. This dead-band will initially be maintained within +/-120 m of the reference ground track
- Instrument and platform commissioning activities have continued
- The commissioning of the Optical Communication Payload (OCP) has resumed, starting with the monitoring of thermal control
- The SAR payload operations are being planned through the Payload Data Ground Segment mission planning system, focusing on the SAR calibration activities. In addition, planning of acquisitions of so-called reference data sets is on-going. With the end of the orbit raising manoeuvres which were taking place during 4 nights a week typically, the SAR can now be operated in any period of 24 hours a day, roll and yaw steering being enabled
- X-Band data acquisitions are routinely performed over Matera and Svalbard stations. Acquired X-Band data are systematically processed to Level-0 and Level-1 products, archived and made available to the Commissioning Phase Team
- The overall FOS and PDGS status and performance are nominal

Outlook

- Continuation of the commissioning activities
- Maintenance of the Reference Orbit Ground Track

