Mission Status Report 22

→ RADAR VISION FOR COPERNICUS

Reference Period: 29 August – 4 September 2014

Mission Status

- The satellite Commissioning Phase is on-going. The satellite In-Orbit Commissioning Phase Review (IOCR) is planned for end of September 2014
- Sentinel-1A data is being provided according to the data provision plan, see: https://sentinel.esa.int/web/sentinel/missions/sentinel-1/data-distribution-policy/data-provision-plan
    - 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, 1734 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, 4021 sample products have been downloaded, corresponding to a volume of 6.7 TB.
- Sentinel-1A, with its interferometric capability, supported the analysis of the Napa Valley earthquake in California, which took place on 24 August. See at: http://www.esa.int/Our_Activities/Observing_the_Earth/Copernicus/Sentinel-1/Radar_vision_maps_Napa_Valley_earthquake

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 reached its nominal orbit on 7 August. The nominal orbit maintenance operations to keep the satellite within the ground track dead-band is in place
- Instrument and platform commissioning activities have continued
- The SAR 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 reference data sets is on-going. The detailed observation plan starting at IOCR is under consolidation
- 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
- About 77000 products have been generated since launch, corresponding to about 83 TB
- The overall FOS and PDGS status and performance are nominal.

Outlook

- Continuation of the commissioning activities
- Acquisition of reference data sets and to support monitoring of specific events (e.g. geohazard in Iceland).