

sentinel-1

→ RADAR VISION FOR COPERNICUS

Mission Status Report 24

Reference Period: 12 September – 18 September 2014

Mission Status

- The satellite Commissioning Phase is on-going. The satellite In-Orbit Commissioning Phase Review (IOCR) milestone is planned on 23 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, 1790 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, 4662 sample products have been downloaded, corresponding to a volume of 7.9 TB.
- Sentinel-1A responded to an activation of the International Charter for Space and Major Disasters for floods in Pakistan – see at: http://www.disasterscharter.org/web/charter/activation_details?p_r_p_1415474252_assetId=ACT-504
- Sentinel-1A images have been made available to the Copernicus Emergency Core service in response to an activation for floods in Puglia, Italy.

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
- Satellite commissioning activities have continued
- The Optical Communication Payload (OCP - for inter-orbit link with data relay satellite) commissioning has been 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 to support the mission ramp-up activities for the coming weeks have been consolidated
- X-Band data acquisitions are routinely performed over Matera and Svalbard stations. Acquired data are circulated within the PDGS, systematically processed to Level-0 and Level-1 products, archived and made available to the Commissioning Phase Team
- Overall commissioning data production scenario is based on the systematic generation of L1 GRD-H products for all data acquired in SM, EW and IW modes, on the generation of L1 SLC products over the calibration sites for SM, EW and IW modes, on the generation of L1 GRD-M products over sea-ice monitoring areas for EW mode and on the systematic generation of L1 SLC products for all WV mode data. The production scenario after IOCR has been consolidated in line with the foreseen observation plan
- The overall FOS and PDGS status and performance are nominal.

Outlook

- Satellite IOCR milestone meeting, Sentinel-1A Space Segment responsibility handover from ESTEC Project to ESRIN Mission Management
- Continuation of ramp-up mission operations.

