

sentinel-1

→ RADAR VISION FOR COPERNICUS

Mission Status Report 20

Reference Period: 15 August – 21 August 2014

Mission Status

- The satellite Commissioning Phase is on-going. The satellite In-Orbit Commissioning Phase Review (IOCR) is planned by end of September 2014
- The first Sentinel-1 interferograms were generated, giving very promising results
- Acquisitions over Iceland will be performed over the next days in support of the monitoring of the Bardabunga volcano
- Planning of specific observations is also foreseen to support two activations of the International Charter for Space and Major Disasters, for floods in India and Panama
- 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.

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 nominal orbit maintenance operations to keep the satellite in its ground track dead-band is in place
- Instrument and platform commissioning activities have continued
- The second phase of the Optical Communication Payload (OCP) commissioning is now on-going. The OCP thermal control has been under close monitoring during the reporting period with satisfactory results
- A SAR unavailability took place during few hours on 21 August, nominal operations were resumed shortly afterwards
- 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 so-called reference data sets is on-going
- 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
- Acquisition of reference data sets and to support monitoring of specific events (e.g. geohazard in Iceland, Charter calls)

