

sentinel-1

→ RADAR VISION FOR COPERNICUS

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Reference Period: 14 June 2016 – 20 June 2016

Mission status

- The Sentinel-1A routine operations have been on-going until 16 June 2016 at 05:59 UTC, when an anomaly on the SAR antenna occurred. Since this date in-depth investigations have been performed and a plan to resume the routine operations has been established
- Sentinel-1A routine operations are expected to be gradually resumed as of 24 June 2016. Limited interruptions will nevertheless take place in the coming days for further on-board adjustments
- Sentinel-1A data can be accessed from: <https://sentinels.copernicus.eu>
- By 16 June 2016, a total of 37,472 users have self-registered on the Sentinels Scientific Data Hub; 4,613,807 product download have been made by users, corresponding to about 5.1 PB of data. At the time of publishing this report, more than 569,705 Sentinel-1A products are available on-line for download, representing 736 TB of data. Statistics of last 24 hours are available in real time at the Data Hub home page (<https://scihub.copernicus.eu>).
- The Commissioning Phase of Sentinel-1B is on-going – see next page
- The first interferograms between Sentinel-1A and Sentinel-1B have successfully been generated, based on images acquired at 6-day interval. See more information at: http://www.esa.int/Our_Activities/Observing_the_Earth/Copernicus/Sentinel-1/Sentinel-1_satellites_combine_radar_vision

Outlook

- Resumption of Sentinel-1A routine mission operations
- Continuation of EDRS-A - Sentinel-1A user commissioning

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Sentinel-1B Commissioning Phase

- Sentinel-1B was launched on 25 April 2016 from Kourou, French Guiana
- The Sentinel-1B launch time-lapse video has been made available at:
http://www.esa.int/spaceinvideos/Videos/2016/05/Sentinel-1B_prepares_for_liftoff_April_2016
- The Launch and Early Orbit Phase (LEOP) was successfully completed on 28 April. All deployments were successfully performed during the first 10 hours after launch (i.e. SAR antenna and solar panels) and initial checks of the various Platform and Payload sub-systems were successfully executed
- The SAR payload was activated on 28 April, the first data takes were acquired at 05:37 UTC, only 56 hours after lift-off, and downloaded at the Matera station few minutes later. These data were immediately processed by the Payload Data Ground Segment
- The first Sentinel-1B images were published on 28 April, less than three days after lift-off. See more information at: http://www.esa.int/Our_Activities/Observing_the_Earth/Copernicus/Sentinel-1/Sentinel-1B_delivers
- The satellite Commissioning Phase started on 29 April. All equipment and sub-systems are nominal and running on the prime units
- The commissioning of the Platform subsystems has been completed
- Sentinel-1B reached its orbital location on 16 June 2016, synchronised with Sentinel-1A at 180 deg. in the same orbital plane and it is now under nominal orbital control, keeping it and Sentinel-1A, within the same ground track of +/-120 meters
- The SAR calibration, characterisation and performance verification activities are on-going
- The Sentinel-1B commissioning phase activities are planned to be completed by mid-September 2016

Outlook

- Continuation of the Sentinel-1B Commissioning Phase
- Continuation of SAR performance verification activities
- Start of the Optical Communication Payload (OCP) on-board verification
- Start of Sentinel-1B/Sentinel-1A Cross-calibration

