

Mission Status Report 440

Reference Period: February 2025

sentinel-1

→ RADAR VISION FOR COPERNICUS

Mission status

- The Copernicus Sentinel-1A spacecraft is in a stable state, operating in Nominal Mission Mode and fully under control.
- Sentinel-1A mission operations proceeded nominally during the reporting period. No relevant space or ground anomaly have interrupted the data collection and delivery to the users. On 11th and 12th of February the time availability of NRT-3h products was slightly degraded as notified [here](#).
- The Flight Operations Segment (FOS) ensured the nominal monitoring, control, and commanding of the satellites throughout the reporting period. No Collision Avoidance Maneuver (CAM) or Close Approach were necessary.
- The Sentinel-1A orbit inclination being no longer controlled results in ground track deviation increasing with latitude. During the reporting period, the ground track deviation was within the nominal dead-band both at equator and poles.
- The spacecraft and downlink planning has been made successfully. The detailed observation plan, including instrument acquisition segments, has been [published](#) regularly as KML files.
- Specific planning requests were placed to support the International Disasters Charter, Copernicus Emergency Service, and the tropical cyclone monitoring. Sentinel-1A was used to support major mainly related to floods and hurricanes. Sentinel-1 support to Vendée Globe race has successfully ended.
- S-1A Data Quality is nominal and is being checked routinely by the S-1 Mission Performance Center. Quality disclaimers impacting the data are made available [here](#). The last Sentinel-1 processing baseline has been rolled out on [February](#) to support Sentinel-1C.

Latest news

- Other news regarding Sentinel-1 can be found [here](#).

