

STEREO MOC Status Report

Time Period: 2023:303 (Oct 30) - 2023:309 (Nov 5)

STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On day 306 (Nov 2), during the DSS-53 support, the uplink and downlink were lost between 0335z and 0410z, due to an antenna azimuth brake issue. This anomaly resulted in the loss of 35 minutes of real-time telemetry, commanding, 2-way tracking, and SSR data. After the uplink was reestablished, the MOPs team repositioned the SSR pointers and recovered all of the affected data. See DR #M116442 for more information.
- On day 307 (Nov 3), during the DSS-55 support, turbo decoder lock was lost briefly at 0635z. This anomaly resulted in the loss of 17 frames of SSR data. The MOPs team repositioned the SSR pointers during the support and recovered all the affected data.

2. The following spacecraft/instrument events occurred during this week. The Ahead observatory operated nominally during this week.

- On day 305 (Nov 1), the 68th SECCHI stepped calibration was executed at 1255z for midpoint in the Ahead orbit. This was the 37th SECCHI stepped calibration roll conducted without gyro use.
- As of day 309 (Nov 5), all PLASTIC systems are behaving well, except there is a moderate background count rate, which the team is continuing to monitor.
- The average daily science data return for Ahead was 6.5 Gbits during this week.