

## STEREO MOC Status Report

Time Period: 2023:345 (Dec 11) - 2023:351 (Dec 17)

### STEREO Ahead (STA) Status:

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

- On day 345 (Dec 11), during the DSS-55 support, the transmitter was declared red due to a hardware problem. This anomaly resulted in the loss of 3.9 hours of real-time commanding and 2-way tracking data. See DR #M116586 for more information.
- On day 348 (Dec 14), DSN conducted a Mission Network maintenance from 1600z through 349-0000z. After the maintenance, the MOPs team verified the SLE telemetry and command connectivity with DSN.
- On day 349 (Dec 15), during the DSS-65 support, monitor data was not available in the MOC, due to a DSN network issue after the DSN mission network maintenance. See DR #M116598 for more information.
- On day 350 (Dec 16), during the DSS-55 support, the beginning of track was delayed 1.25 hours until 0350z, due to a hardware issue. The track was switched to DSS-65 for the remaining time. This anomaly resulted in the loss of 1.25 hours of real-time telemetry, commanding, tracking, and SSR data. The MOPs team repositioned the SSR pointers during the track and recovered all the affected data. See DR #M116600 for more information.

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

- As of day 351 (Dec 17), 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 6.4 Gbits during this week.