

STEREO MOC Status Report

Time Period: 2023:296 (Oct 23) - 2023:302 (Oct 29)

STEREO Ahead (STA) Status:

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

- On day 297 (Oct 24), during the DSS-43 support, the uplink and downlink were lost between 2013z and 2023z due to an antenna azimuth brake issue. This anomaly resulted in the loss of ten 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 #C117523 for more information.
- On day 302 (Oct 29), during the DSS-25 support, the antenna was declared red due to a hardware problem. This anomaly resulted in the loss of two hours of real-time telemetry, commanding, tracking and SSR data. The MOPs team repositioned the SSR pointers during the subsequent DSS-53 track and recovered all the affected data. See DR #G124066 for more information.

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

- On day 297 (Oct 24), the PLASTIC team conducted real-time commanding to increase the MCP voltage level.
- As of day 302 (Oct 29), 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 6.6 Gbits during this week.