

STEREO MOC Status Report

Time Period: 2024:141 (May 20) - 2024:147 (May 26)

STEREO Ahead (STA) Status:

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

- On day 141 (May 20), during the DSS-55 support, turbo decoder lock was lost briefly at 0514z. This anomaly resulted in the loss of 92 frames of SSR data. The MOPs team repositioned the SSR pointers during the support and recovered all the affected data. See DR #M116977 for more information.
- On day 143 (May 22), during the DSS-84 (ESA Malargue) support, the beginning of track was delayed three minutes until 0753z, due to a late SLE Telemetry Bind between DSN and ESA. This anomaly resulted in the loss of three minutes of real-time telemetry and SSR data. The MOPs team repositioned the SSR pointers during the track and recovered all the affected data.
- On day 144 (May 23), during the DSS-53 support, the uplink was not available between 0330z and 0345z, due to a transmitter issue. This anomaly resulted in the loss of fifteen minutes of commanding, 2-way tracking, and 2157 frames of SSR data. After the uplink was reestablished, the MOPs team repositioned the SSR pointers and recovered all of the affected data. See DR #M116986 for more information.
- On days 146-147 (May 25-26), APL conducted a commercial power outage maintenance from 146-1000z through 147-2200z. The MOC operated on generator power during the outage with no negative impact.

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

- As of day 147 (May 26), 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.