

STEREO MOC Status Report

Time Period: 2023:254 (Sep 11) - 2023:260 (Sep 17)

STEREO Ahead (STA) Status:

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

- On day 257 (Sep 14), during the DSS-83 (ESA/CEB) support, the MOC lost telemetry briefly at 0317z. This anomaly resulted in the loss of one minute of SSR data and real-time telemetry. MOPS notified ESA the next morning and all of the affected data was recovered via an off-line playback. Post-track troubleshooting failed to identify a definitive cause for this issue.
- On day 258 (Sep 15), during the DSS-43 support, both PLASTIC and IMPACT POCs were unable to remotely connect to the instrument command server Cho while preparing for real-time commanding. Further investigation found that SWAVES could not remotely connect either. The APL SOF team corrected the issue shortly after EOT and PLASTIC was able to successfully command the next day. The issue was the result of a non-Cho specific version of an SSH configuration file being inadvertently pushed out on Sep 12 while the SOF team was addressing another issue.
- On day 259 (Sep 16), during the DSS-53 support, turbo decoder lock was lost briefly at 0458z due to rain at the station. This anomaly resulted in the loss of 58 frames of SSR data. The MOPS team repositioned the SSR pointers during the support and recovered all of the affected data. See DR# M116288 for more information.

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

- As of day 260 (Sep 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 6.8 Gbits during this week.