

STEREO MOC Status Report

Time Period: 2023:044 (Feb 13) - 2023:050 (Feb 19)

STEREO Ahead (STA) Status:

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

- On day 044 (Feb 13), DSS-26 conducted a successful Project Interface Test. The purpose was to validate tracking and telemetry performance for DTT software (v15.1). The MOC successfully received monitor data, real-time telemetry, and sent four commands.
- On 044 (Feb 13), APL network engineers successfully upgraded the MOC Restricted IONET and DMZ network firewall software.
- On day 045 (Feb 14), during the DSS-56 support, the beginning of track was delayed 1.7 hours until 2223z, due to a receiver problem. This anomaly resulted in the loss of 1.7 hours of real-time telemetry, commanding, tracking, and SSR data. The MOPs team repositioned the SSR pointers during the support and recovered all the affected data, except for causing the SECCHI SSR partition 19 to fill for 1.1 hours on DOY 046. See DR #M115552 for more information.
- On day 048 (Feb 17), during the DSS-55 support, turbo decoder lock was lost briefly at 1246z. This anomaly resulted in the loss of twelve frames of SSR data.

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

- On day 046 (Feb 15), during the DSS-63 support, the SECCHI SSR Partition 19 reached 100% full for 1.1 hours from 1057z to 1202z. The SSR pointer repositioning on DOY 045 to recover data from the failed DSS-56 support caused this issue.
- On day 047 (Feb 16), the MOPs team successfully conducted the 13th battery discharge event at 1400z to redistribute the electrolytes within the nickel hydrogen battery cells.
- As of day 050 (Feb 19), 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 6.1 Gbits during this week.