

STEREO MOC Status Report

Time Period: 2022:234 (Aug 22) - 2022:240 (Aug 28)

STEREO Ahead (STA) Status:

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

- On day 237 (Aug 25), during the DSS-55 support, the antenna was stowed inadvertently at 1818z. The antenna was returned to point at 1825z. This anomaly resulted in the loss of seven minutes of real-time telemetry, command, 2-way tracking, and SSR data. The MOPs team repositioned the SSR pointers and recovered all the affected data. See DR #G122997 for more information.
- On day 237 (Aug 25), the IMPACT GSE located in the MOC could not connect to the command system, due to network configuration issues and an outdated SSH client. The maintenance team corrected the problems, so IMPACT will try commanding again next week.
- On day 239 (Aug 27), during the DSS-25 support, turbo decoder lock was lost briefly at 0144z. This anomaly resulted in the loss of 34 frames of SSR data.

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

- On day 234 (Aug 22), the MOPs team successfully conducted the 12th battery discharge event at 1800z to redistribute the electrolytes within the nickel hydrogen battery cells.
- On day 235 (Aug 23), the 63rd SECCHI stepped calibration was executed at 0220z for perihelion in the Ahead orbit. This was the 32nd SECCHI stepped calibration roll conducted without gyro use.
- On day 236 (Aug 24), the 149th momentum dump was executed successfully at 2000z, which imparted an estimated delta V of 0.057 m/sec. This was the 68th momentum dump conducted without gyro use. After thruster operations completed, there was a 1.1 degree of roll angle error. Fine pointing stabilized 3.3 minutes after completion of the momentum dump.
- As of day 240 (Aug 28), 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 6.7 Gbits during this week.