

STEREO MOC Status Report

Time Period: 2023:163 (Jun 12) - 2023:169 (Jun 18)

STEREO Ahead (STA) Status:

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

- On day 168 (Jun 17), during the DSS-43 support, turbo decoder lock was lost intermittently between 0410z and 0506z. This anomaly resulted in the loss of 4640 frames of SSR data. The MOPs team repositioned the SSR pointers during the support and recovered all the affected data. See DR #C117329 for more information.

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

- On day 163 (Jun 12), the 67th SECCHI stepped calibration was executed at 1650z for perihelion in the Ahead orbit. This was the 36th SECCHI stepped calibration roll conducted without gyro use.
- On day 163, after the SECCHI stepped calibration, fine pointing was lost intermittently beginning at 163-2150z through 164-1456z. These occurrences were due to the reaction wheels operating at low speeds with no gyro operations. These transients can occur with no gyro operations and are not indicative of any problem with the spacecraft G&C.
- On day 164 (Jun 13), the 157th momentum dump was executed successfully at 2000z, which imparted an estimated delta V of 0.069 m/sec. This was the 76th momentum dump conducted without gyro use. After thruster operations completed, there was a 1.1 degree of roll angle error. Fine pointing stabilized three minutes after completion of the momentum dump.
- As of day 169 (Jun 18), 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.