

STEREO MOC Status Report

Time Period: 2023:065 (Mar 6) - 2023:071 (Mar 12)

STEREO Ahead (STA) Status:

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

- On day 067 (Mar 8), during the DSS-53 support, the transmitter was declared red due to a hardware problem. This anomaly resulted in the loss of 3.9 hours of real-time commanding and 2-way tracking data. See DR #M115615 for more information.
- On day 068 (Mar 9), during the DSS-54 support, the track ended two hours early at 1915z to provide track time for the JWST Safe Mode recovery. Before ending the support, the MOPs team completed all commanding and stopped the SSR playback to prevent data loss.

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

- On day 065 (Mar 6), the 154th momentum dump was executed successfully at 2200z, which imparted an estimated delta V of 0.064 m/sec. This was the 73rd momentum dump conducted without gyro use. After thruster operations completed, there was a 0.46 degree of roll angle error. Fine pointing stabilized 3.2 minutes after completion of the momentum dump.
- As of day 071 (Mar 12), 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.