

STEREO MOC Status Report

Time Period: 2022:038 (Feb 7) - 2022:044 (Feb 13)

STEREO Ahead (STA) Status:

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

- On day 043 (Feb 12), during the DSS-63 support, turbo decoder lock was lost briefly at 2147z. This anomaly resulted in the loss of 38 frames of SSR data. The MOPs team repositioned the SSR pointers during the subsequent DSS-35 track and recovered all the affected data.
- On day 044 (Feb 13), during the DSS-63 support, the transmitter was declared red due to a hardware problem. This anomaly resulted in the loss of 2.6 hours of real-time commanding and 2-way tracking data. See DR# M114286 for more information.

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

- On day 041 (Feb 10), the 144th momentum dump was executed successfully at 2030z, which imparted an estimated delta V of 0.062 m/sec. This was the 63rd momentum dump conducted without gyro use. After thruster operations completed, there was a 0.33 degree of roll angle error. Fine pointing stabilized 3.1 minutes after completion of the momentum dump.
- As of day 044 (Feb 13), 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 6.6 Gbits during this week.