

STEREO MOC Status Report

Time Period: 2022:199 (Jul 18) - 2022:205 (Jul 24)

STEREO Ahead (STA) Status:

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

- On day 200 (Jul 19), during the DSS-53 support, turbo decoder lock was lost briefly at 1711z. This anomaly resulted in the loss of four frames of SSR data. The MOPs team repositioned the SSR pointers during the track and recovered all the affected data.
- On day 201 (Jul 20), during the DSS-55 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 #M114749 for more information.

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

- On day 200 (Jul 19), the 148th momentum dump was executed successfully at 1615z, which imparted an estimated delta V of 0.053 m/sec. This was the 67th momentum dump conducted without gyro use. After thruster operations completed, there was a 0.28 degree of roll angle error. Fine pointing stabilized 3.2 minutes after completion of the momentum dump.
- As of day 205 (Jul 24), 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 6.3 Gbits during this week.