

STEREO MOC Status Report

Time Period: 2024:148 (May 27) - 2024:154 (Jun 2)

STEREO Ahead (STA) Status:

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

- On day 153 (Jun 1), during the DSS-63 support, the beginning of track was delayed 17 minutes until 0632z, due to a downlink receiver problem. This anomaly resulted in the loss of 17 minutes of real-time telemetry, commanding, tracking, and SSR data. The MOPs team repositioned the SSR pointers during the track and recovered all the affected data. See DR # M116998 for more information.

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

- On day 152 (May 31), the 167th momentum dump was executed successfully at 1830z, which imparted an estimated delta V of 0.056 m/sec. This was the 86th momentum dump conducted without gyro use. After thruster operations completed, there was a 0.3 degree of roll angle error. Fine pointing stabilized 3.2 minutes after completion of the momentum dump.
- As of day 154 (Jun 2), 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.