

STEREO MOC Status Report

Time Period: 2022:122 (May 2) - 2022:128 (May 8)

STEREO Ahead (STA) Status:

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

- On day 124 (May 4), during the DSS-25 support, the antenna was declared red, due to an elevation brake failure. This anomaly resulted in the loss of 2.25 hours of real-time telemetry, command, tracking, and SSR data. The MOPs team repositioned the SSR pointers on the subsequent DSS-35 support and recovered all the affected data. See DR #G122731 for more information.

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

- On day 122 (May 2), the 146th momentum dump was executed successfully at 1830z, which imparted an estimated delta V of 0.061 m/sec. This was the 65th momentum dump conducted without gyro use. After thruster operations completed, there was a 0.88 degree of roll angle error. Fine pointing stabilized three minutes after completion of the momentum dump.
- As of day 128 (May 8), 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 6.7 Gbits during this week.