

## STEREO MOC Status Report

Time Period: 2024:050 (Feb 19) - 2024:056 (Feb 25)

### STEREO Ahead (STA) Status:

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

- On day 051 (Feb 20), during the DSS-26 support, the transmitter was declared red, due to a hardware problem. This anomaly resulted in the loss of 2.1 hours of real-time commanding and 2-way tracking data. See DR #G124328 for more information.
- On day 055 (Feb 24), during the DSS-56 support, the beginning of track was delayed 25 minutes until 0530z, due to a hardware problem. This anomaly resulted in the loss of 25 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 #M116771 for more information.

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

- On day 051 (Feb 20), the 164th momentum dump was executed successfully at 1500z, which imparted an estimated delta V of 0.061 m/sec. This was the 83rd momentum dump conducted without gyro use. After thruster operations completed, there was a 1.4 degree of roll angle error. Fine pointing stabilized 2.9 minutes after completion of the momentum dump.
- As of day 056 (Feb 25), 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 6.8 Gbits during this week.