

STEREO MOC Status Report
Time Period: 2021:046 - 2021:052

STEREO Ahead (STA) Status:

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

- On day 046, during the DSS-43 support, the transmitter was declared red, due to a hardware problem. This anomaly resulted in the loss of 2 hours of real-time commanding and 2-way tracking data. See DR #C115469 for more information.
- On day 051, during the DSS-25 support, turbo decoder lock was lost intermittently from 2153z to 2216z, due to an elevation drive failure. This anomaly resulted in the loss of 5582 frames of SSR data. The MOPs team repositioned the SSR pointers on the subsequent DSS-14 support and recovered all the affected data. See DR #G121742 for more information.

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

- On day 046, the 135th momentum dump was executed successfully at 1900z, which imparted an estimated delta V of 0.047 m/sec. This was the 54th momentum dump conducted without gyro use. After thruster operations completed, there was a 0.3 degree of roll angle error. Fine pointing stabilized 3 minutes after completion of the momentum dump.
- As of day 052, all PLASTIC systems are behaving well, except there is a high background count rate, which the team is continuing to monitor.
- The average daily science data return for Ahead was 6.4 Gbits during this week.