

STEREO MOC Status Report

Time Period: 2024:078 (Mar 18) - 2024:084 (Mar 24)

STEREO Ahead (STA) Status:

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

- On day 081 (Mar 21), during the DSS-36 support, turbo decoder lock was lost briefly at 1708z. This anomaly resulted in the loss of four frames of SSR data. The MOPs team repositioned the SSR pointers during the support and recovered all the affected data.

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

- On day 081 (Mar 21), the 165th momentum dump was executed successfully at 1730z, which imparted an estimated delta V of 0.047 m/sec. This was the 84th momentum dump conducted without gyro use. After thruster operations completed, there was a 0.8 degree of roll angle error. Fine pointing stabilized 2.2 minutes after completion of the momentum dump.
- As of day 084 (Mar 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 6.7 Gbits during this week.