

STEREO MOC Status Report

Time Period: 2024:008 (Jan 8) - 2024:014 (Jan 14)

STEREO Ahead (STA) Status:

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

- On day 011 (Jan 11), DSN conducted a Mission Network maintenance from 0000z through 0800z. After the maintenance, the MOPs team verified the SLE telemetry and command connectivity with DSN.
- On day 011 (Jan 11), during the DSS-26 support, the antenna was stowed and unable to track from 1310z to 1332z, due to high winds. This anomaly resulted in the loss of 22 minutes of real-time telemetry, command, tracking, and SSR data. The MOPs team repositioned the SSR pointers during the track and recovered all the affected data. See DR #G124229 for more information.

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

- On day 009 (Jan 9), the 163rd momentum dump was executed successfully at 1645z, which imparted an estimated delta V of 0.060 m/sec. This was the 82nd momentum dump conducted without gyro use. After thruster operations completed, there was a 0.9 degree of roll angle error. Fine pointing stabilized 2.7 minutes after completion of the momentum dump.
- As of day 014 (Jan 14), 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 6.9 Gbits during this week.