

STEREO MOC Status Report

Time Period: 2022:003 (Jan 03) - 2022:009 (Jan 09)

STEREO Ahead (STA) Status:

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

- None.

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

- On day 004 (Jan 04), the 143rd momentum dump was executed successfully at 1945z, which imparted an estimated delta V of 0.063 m/sec. This was the 62nd momentum dump conducted without gyro use. After thruster operations completed, there was a 0.96 degree of roll angle error. Fine pointing stabilized 2.7 minutes after completion of the momentum dump.
- On day 009 (Jan 09), the star tracker reset at 22:01:00z. Fault protection immediately promoted the star tracker back to AAD mode at 22:01:23z. The diagnostic data indicated that the reset cause was due to a CPU Error, same as previous resets. The anomaly resulted in a momentary loss of fine pointing with a 0.17 degree of roll angle error. This was the ninth star tracker reset on the Ahead observatory.
- As of day 009 (Jan 9), 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.