

STEREO MOC Status Report

Time Period: 2023:198 (Jul 17) - 2023:204 (Jul 23)

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 198 (Jul 17), the 158th momentum dump was executed successfully at 1930z, which imparted an estimated delta V of 0.092 m/sec. This was the 77th momentum dump conducted without gyro use. After thruster operations completed, there was a 1.1 degree of roll angle error. Fine pointing stabilized 2.6 minutes after completion of the momentum dump.
- On day 204 (Jul 23), the third week of the SECCHI high downlink campaign (HDC) was completed for STEREO-A closest approach to Earth (occurs on Aug 17, 2023). During the HDC, SECCHI will be repeating data collections from 2007 and 2008 for high cadence EUVI, COR1/2, and HI1/2 images. Extra DSN track coverage has been planned for the HDC (Jul 3 - Aug 2, 2023) to increase the daily science data return to 10-11 Gbits per day (normally 5-6 Gbits).
- As of day 204 (Jul 23), 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 9.2 Gbits during this week.