

STEREO MOC Status Report

Time Period: 2023:205 (Jul 24) - 2023:211 (Jul 30)

STEREO Ahead (STA) Status:

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

- On day 205 (Jul 24), during the DSS-63 support, the antenna was declared red due to a hardware problem. This anomaly resulted in the loss of 4.5 hours of real-time telemetry, command, tracking and SSR data. The MOPs team repositioned the SSR pointers during the subsequent DSS-35 track and recovered all the affected data, except for the loss of two hours of SECCHI data for day 205-0442z thru 0640z. See DR#M116121 for more information.

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

- On day 211 (Jul 30), the fourth 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 211 (Jul 30), 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 8.9 Gbits during this week.