

STEREO MOC Status Report

Time Period: 2023:191 (Jul 10) - 2023:197 (Jul 16)

STEREO Ahead (STA) Status:

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

- On day 191 (Jul 10), during the DSS-63 support, the transmitter was declared red due to a hardware problem. This anomaly resulted in the loss of 3.4 hours of real-time commanding and 2-way tracking data. See DR #M116051 for more information.
- On day 192 (Jul 11), during the DSS-35 support, turbo decoder lock was lost briefly at 0500z. 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 197 (Jul 16), the second 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 197 (Jul 16), 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 11.0 Gbits during this week.