

STEREO MOC Status Report

Time Period: 2023:142 (May 22) - 2023:148 (May 28)

STEREO Ahead (STA) Status:

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

- On day 145 (May 25), DSS-43 conducted a Return-To-Service (RTS) engineering demo track. The purpose was to verify X-band Telemetry, Tracking and Command operations after the completion of the Depot Level Maintenance. The MOC successfully received real-time telemetry, monitor data, and sent four commands. Turbo decoder lock was lost intermittently between 0357z and 0412z, due an elevation pointing error caused by Conscan being enabled. This anomaly resulted in the loss of 427 frames of real-time data. See DR #C117304 for more information.
- On day 146 (May 26), the DSS-36 support was deleted to provide track time for TDRS-8 spacecraft emergency that was caused by the typhoon hitting Guam. STEREO track coverage remained adequate after the DSS-36 deletion.
- On days 147-148 (May 27-28), APL conducted a commercial powered outage maintenance from 147-0930z through 148-2030z. The MOC operated on generator for the outage with no negative impact.

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

- On day 146 (May 26), the SECCHI instrument reset at 22:49:11z. The SECCHI team reconfigured the instrument to operational mode by 2339z. This was the 75th reset of the SECCHI instrument on the Ahead observatory.
- On day 148 (May 28), the SECCHI instrument reset at 07:28:25z. The SECCHI team reconfigured the instrument to operational mode by 2021z. This was the 76th reset of the SECCHI instrument on the Ahead observatory.
- As of day 148 (May 28), 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 6.0 Gbits during this week.