

STEREO MOC Status Report

Time Period: 2024:106 (Apr 15) - 2024:112 (Apr 21)

STEREO Ahead (STA) Status:

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

- On day 108 (Apr 17), during the DSS-83 (ESA Cebreros) support, the MOC lost telemetry briefly at 0536z. This anomaly resulted in the loss of one minute of real-time telemetry and SSR data. The MOPs team repositioned the SSR pointers during the subsequent DSS-35 track and recovered all the affected data.
- On day 109 (Apr 18), during the DSS-36 support, turbo decoder lock was lost briefly at 1719z. 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 106 (Apr 15), the final day of the SECCHI high downlink campaign (HDC) was completed. During the HDC, SECCHI collected high cadence COR-2 & HI-1 images for the Solar Eclipse that occurred on Apr 8. Extra DSN track coverage was planned for the HDC (Apr 1 - 15, 2024) to increase the daily science data return to 10-11 Gbits per day (normally 5-6 Gbits).
- On day 111 (Apr 20), the 70th SECCHI stepped calibration was executed at 1055z for midpoint in the Ahead orbit. This was the 39th SECCHI stepped calibration roll conducted without gyro use.
- As of day 112 (Apr 21), 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 6.6 Gbits during this week.