

STEREO MOC Status Report

Time Period: 2021:284 (Oct 11) - 2021:290 (Oct 17)

STEREO Ahead (STA) Status:

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

- On day 285 (Oct 12), during the DSS-43 support, the beginning of track was delayed 19 minutes until 0909z, due to a microwave switch problem. This anomaly resulted in the loss 19 minutes of real-time telemetry, commanding, tracking, and SSR data. The MOPs team repositioned the SSR pointers during the support and recovered all the affected data. See DR #C115987 for more information.
- On day 288 (Oct 15), the STEREO Data Server (SDS) website went offline at 2011z due to a system disk failure on the host workstation Cho. This anomaly prevented access to the SDS data products and external instrument commanding for 4.8 hours. The MOC maintenance team replaced the system disk and restored from the backup data by 289-0058z.
- On day 290 (Oct 17), during the DSS-34 support, turbo decoder lock was lost intermittently between 0829z and 1026z. This anomaly resulted in the loss of 312 frames of SSR data. The MOPs team repositioned the SSR pointers during the track and recovered all the affected data. See DR# C115990 for more information.

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

- On day 286 (Oct 13), the 141st momentum dump was executed successfully at 1800z, which imparted an estimated delta V of 0.059 m/sec. This was the 60th momentum dump conducted without gyro use. After thruster operations completed, there was a 0.83 degree of roll angle error. Fine pointing stabilized 3.1 minutes after completion of the momentum dump.
- As of day 290 (Oct 17), all PLASTIC systems are behaving well, except there is a high 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.