

STEREO MOC Status Report

Time Period: 2022:346 (Dec 12) - 2022:352 (Dec 18)

STEREO Ahead (STA) Status:

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

- On day 347 (Dec 13), STEREO switched from antenna DSS-56 to DSS-53 to provide track time for the HMAP Spacecraft Emergency. During the DSS-53 support, the antenna was declared red, due to an Antenna Servo Drive issue. This anomaly resulted in the loss of 1.5 hours of real-time telemetry, command, tracking, and SSR data. The MOPs team repositioned the SSR pointers during the subsequent DSS-55 track and recovered all the affected data. See DR #M115274 for more information.

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

- On day 348 (Dec 14), the SECCHI team commanded an instrument reboot with a watchdog reset at 13:16:07z. The reset corrected a software error with the image counter. The SECCHI team reconfigured the instrument to operational mode by 1333z. This was the 73rd reset of the SECCHI instrument on the Ahead observatory.
- On day 349 (Dec 15), during the DSS-63 support, the SECCHI SSR Partition 19 reached 100% full for 34 minutes from 1503z to 1537z. The SSR pointer repositioning on DOY 348 to recover data from the failed DSS-53 support caused this issue.
- As of day 352 (Dec 18), 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 6.2 Gbits during this week.