

STEREO MOC Status Report

Time Period: 2021:326 (Nov 22) - 2021:332 (Nov 28)

STEREO Ahead (STA) Status:

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

- On day 327 (Nov 23), during the DSS-55 support, the transmitter was declared red due to a hardware problem. This anomaly resulted in the loss of 4.3 hours of real-time commanding and 2-way tracking data. See DR# M114021 for more information.
- On day 328 (Nov 24), during the DSS-34 support, turbo decoder lock was lost intermittently between 1017z and 1220z. This anomaly resulted in the loss of 28 frames of SSR data. The MOPs team repositioned the SSR pointers during the track and recovered all the affected data, except for the loss of one minute of SECCHI data at 328-1215z.

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

- On day 327 (Nov 23), the 142nd momentum dump was executed successfully at 1830z, which imparted an estimated delta V of 0.060 m/sec. This was the 61st momentum dump conducted without gyro use. After thruster operations completed, there was a 0.48 degree of roll angle error. Fine pointing stabilized 2.9 minutes after completion of the momentum dump.
- On day 328 (Nov 24), the SECCHI instrument reset at 05:48:42z. The SECCHI team reconfigured the instrument to operational mode by 1043z. This was the 68th reset of the SECCHI instrument on the Ahead observatory.
- As of day 332 (Nov 28), 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 6.1 Gbits during this week.