

STEREO MOC Status Report

Time Period: 2021:221 (Aug 9) - 2021:227 (Aug 15)

STEREO Ahead (STA) Status:

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

- On day 222 (Aug 10), during the DSS-54 support, uplink activities were delayed 25 minutes until 1832z, due to the transmitter tripping offline at 1807z. This anomaly resulted in the loss 0.4 hours of real-time commanding, 2-way tracking, and 340 frames SSR data during the transition to 2-way downlink mode. The MOPs team repositioned the SSR pointers during the track and recovered all the affected data. See DR #M113782 for more information.
- On day 222 (Aug 10), during the DSS-14 support, turbo decoder lock was lost briefly at 2309z. This anomaly resulted in the loss of one frame of SSR data.
- On day 223 (Aug 11), during the DSS-34 support, turbo decoder lock was lost intermittently from 0740z to 1034z, due to poor weather conditions. This anomaly resulted in the loss of 51845 frames of SSR data. The MOPs team repositioned the SSR pointers during the support and recovered all the affected data. See DR #C115902 for more information.

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

- On day 222 (Aug 10), SECCHI SSR Partition 19 reached 100% full at for 1.1 hours from 1723z thru 1826z. This was related to the special COR2 polarized brightness campaign in support of the Parker Solar Probe perihelion pass.
- As of day 227 (Aug 15), 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 6.8 Gbits during this week.