

STEREO MOC Status Report
Time Period: 2021:102 - 2021:108

STEREO Ahead (STA) Status:

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

- On day 105, during the DSS-63 support, beginning of track (BOT) was delayed until 1935z, due to a downlink processor problem. This anomaly resulted in the loss of five minutes of real-time telemetry and three minutes of SSR data. The MOPs team repositioned the SSR pointers on the subsequent DSS-63 support. All affected data was recovered, except for the loss of six minutes of SECCHI data for day 105-0946z thru 0952z. See DR #M113436 for more information.
- On day 107, during the DSS-63 support, the antenna downlink was declared red, due to the HEMT-X LNA overheating. This anomaly resulted in the loss of 3.75 hours of real-time telemetry and SSR playback activities. Since the uplink activities were green, the MOPs team responded to the MOC to stop the SSR playback and repositioned the SSR pointers to recover the science data on the next day. Also, the onboard SSR playback time-tag commands were deleted for the next DSS-63 track to operate the SSR PB from the ground. See DR #M113442 for more information.
- On day 108, during the DSS-63 support, the antenna downlink was declared red, due to the HEMT-X LNA overheating. This anomaly resulted in the loss of 2 hours of real-time telemetry and SSR playback activities. See DR #M113451 for more information.

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

- On day 108, SECCHI SSR Partition 19 reached 100% full at 1631z for 2.9 hours (1927z). The SSR pointer repositioning during DSS-63 track on day 107 to recover data from the X-band downlink problem caused this.

- As of day 108, 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 5.7 Gbits during this week.