

STEREO MOC Status Report
Time Period: 2021:011 - 2021:017

STEREO Ahead (STA) Status:

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

- On day 011, during the DSS-54 support, DSN cancelled the track because the antenna was stowed after the severe snowstorm waiting for maintenance to arrive on-site to assess and approve the equipment satisfactory for operations. The momentum dump that was cancelled for this support and rescheduled for day 019. This anomaly resulted in the loss of 4.6 hours of real-time commanding, telemetry, ranging, and SSR data. See DR #M113067 for more information.
- On days 012-017, DSN cancelled six DSS-63 supports, because the antenna was stowed after the severe snowstorm waiting for maintenance to arrive on-site to assess and approve the equipment satisfactory for operations. The six days of track loss resulted in the loss of 17.1 hours of real-time commanding, telemetry, ranging, and SSR data. Additional DSN and ESA tracks were scheduled to replace the lost Madrid tracks. See DRs #M113076, #M113101, #M113110, #M113118, #M113134, and #M113144 for more information.
- On day 015, during the DSS-35 support, the transmitter was declared red, due to a hardware problem. This anomaly resulted in the loss of 2.4 hours of real-time commanding and 2-way tracking data. The lack of commanding prevented the MOPs team from removing the upcoming DSS-63 SSR playback schedule from onboard memory. The commanding activities were moved to the subsequent DSS-74 track on day 016. See DR #C115409 for more information.
- On day 016, during the DSS-74 (ESA New Norcia) support, the MOPs team removed the upcoming DSS-63 SSR playback schedule from onboard memory. The SSR pointers were repositioned to recovered data from the previous DSS-63 track. All the affected data was recovered except for the loss of ~8 hours of SECCHI data for day 015.

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

- On day 016, SECCHI SSR Partition 19 reached 100% full at 2249z for 4.7 hours (017-0328z). The SSR pointer repositioning during DSS-74 track earlier on day 016 to recover data lost from the previous day caused this.
- As of day 017, 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 5.1 Gbits during this week.