

STEREO MOC Status Report
Time Period: 2021:004 - 2021:010

STEREO Ahead (STA) Status:

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

- On day 008, during the DSS-65 support, the downlink receiver could not lock to telemetry for the entire track, due to a severe snowstorm. This anomaly resulted in the loss of 3.5 hours of real-time telemetry, ranging, and SSR data. Since the command uplink was available, the MOPs team disabled the SSR playback, and repositioned the SSR pointers during the track. Some of the affected SSR data was recovered during the subsequent DSS-74 track. See DR #M113024 for more information.
- On day 009, during the DSS-63 support, DSN cancelled the track because the antenna was stowed for a severe snowstorm. DSN moved the support to DSS-26 at 1915z to allow MOPs to finish the downlink and uplink activities. This anomaly resulted in the loss of 2.5 hours of real-time commanding, telemetry, ranging, and SSR data. See DR #M113040 for more information.
- On day 010, during the DSS-83 (ESA Cebreros) support, the downlink receiver could not lock to telemetry until 1444z, due to a severe snowstorm. The command uplink sweep was delayed until 1537z, due to a configuration issue. The SWAVES POC commands scheduled for uplink on day 010 failed due to the uplink issue. This anomaly resulted in the loss of 3.25 hours of real-time commanding, telemetry, ranging, and SSR data.
- On day 010, during the DSS-63 support, DSN cancelled the track because the antenna was stowed after the severe snowstorm until maintenance can arrive on-site to assess and approve the equipment is satisfactory for operations. This anomaly resulted in the loss of 4 hours of real-time commanding, telemetry, ranging, and SSR data. See DR #M113058 for more information.

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

- On day 009, SECCHI SSR Partition 19 reached 100% full at 0318z for 10 minutes (0328z). This was caused by the SSR pointer repositioning during DSS-65 track on day 008 to recover data lost during that tracks.
- As of day 010, 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 4.7 Gbits during this week.