

STEREO MOC Status Report

Time Period: 2021:319 (Nov 15) - 2021:325 (Nov 21)

STEREO Ahead (STA) Status:

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

- On day 319 (Nov 15), during the DSS-43 support, the antenna was unable to lock telemetry and ranging, due to a RF/IF downconverter problem. This anomaly resulted in the loss of 2.7 hours of real-time telemetry, command, tracking, and SSR data. The MOPs team repositioned the SSR pointers during the subsequent DSS-63 track and recovered all the affected data. See DR #C116068 for more information.
- On day 321 (Nov 17), during the DSS-34 support, turbo decoder lock was lost intermittently between 0712z and 1121z. This anomaly resulted in the loss of 63 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 321-1109z. See DR #C116074 for more information.
- On day 323 (Nov 19), during the DSS-43 support, the transmitter tripped offline at 1035z, due to an open microwave interlock alarm. This anomaly resulted in the loss of 32 minutes of commanding, 2-way ranging, and 12438 frames of SSR data during the downlink receiver transition from 2-way to 1-way mode. The MOPs team repositioned the SSR pointers during the subsequent DSS-25 track and recovered all the affected data. See DR #C116080 for more information.

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

- As of day 325 (Nov 21), 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 6.9 Gbits during this week.