

STEREO MOC Status Report

Time Period: 2022:255 (Sept 12) - 2022:261 (Sept 18)

STEREO Ahead (STA) Status:

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

- On day 255 (Sept 12), during the DSS-63 support, the link operator inadvertently turned off the incorrect transmitter at 1855z. This anomaly resulted in the loss of 20 minutes of real-time commanding, 2-way tracking, and the loss of 2838 frames of SSR data. The MOPs team repositioned the SSR pointers during the subsequent DSS-55 track and recovered all the affected data. See DR #G123036 for more information.
- On day 256 (Sept 13), during the DSS-55 support, turbo decoder lock was lost intermittently between 1600z and 1627z, due to weather. Also, the transmitter failed at 1621z. These anomalies resulted in the loss of three hours of real-time commanding, 2-way tracking, and the loss of 6443 frames of SSR data. The MOPs team repositioned the SSR pointers during the subsequent DSS-25 track and recovered all the affected data. See DR #M114882 for more information.
- On day 258 (Sept 15), during the DSS-35 support, the MOC commanding was delayed by 30 minutes, due to a problem binding to the SLE command server at the station. The MOC bound to the server successfully at 0742z, once the issue self-corrected. See DR #C116752 for more information.
- On day 258 (Sept 15), during the DSS-53 support, turbo decoder lock was lost intermittently between 2012z and 2013z, due to weather. This anomaly resulted in the loss of 931 frames of SSR data. The MOPs team repositioned the SSR pointers during the subsequent DSS-35 track and recovered all the affected data. See DR #M114907 for more information.

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

- As of day 261 (Sept 18), all PLASTIC systems are behaving well, except there is a moderate background count rate, which the team is continuing to monitor.
- The average daily science data return for Ahead was 5.5 Gbits during this week.