

STEREO MOC Status Report  
Time Period: 2021:116 - 2021:122

STEREO Ahead (STA) Status:

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

- On day 116, during the DSS-63 support, turbo decoder lock was lost briefly at 1803z. This anomaly resulted in the loss of 48 frames of SSR data. The MOPs team repositioned the SSR pointers during the track and recovered all the affected data.
- On day 117, DSS-14 successfully conducted a Return-To-Service (RTS) engineering demo track. The purpose was to verify X-band Telemetry, Tracking and Command operations after the completion of Depot Level Maintenance. The MOC successfully received real-time telemetry and sent four commands.
- On day 121, during the DSS-14 support, the transmitter tripped offline at 0201z, due to an open microwave interlock alarm. This anomaly resulted in the loss of 57 minutes of commanding and 6470 frames of SSR data during the downlink receiver transition from 2-way to 1-way mode. The MOPs team repositioned the SSR pointers on the subsequent DSS-63 support and recovered all the affected data. See DR #G121943 for more information.

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

- As of day 122, 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 7.0 Gbits during this week.