

STEREO MOC Status Report
Time Period: 2021:081 - 2021:087

STEREO Ahead (STA) Status:

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

- On day 083, during the DSS-35 support, the MOPs team conducted SSR playback via ground command. The onboard SSR time tag commands were deleted on the previous DSS-63 track to minimize the impact of the antenna being declared red. DSN repaired the antenna before the track and it operated without problems.
- On day 085, during the DSS-63 support, the SLE command bind aborted at 2100z due to an unknown network issue. An attempt to re-bind at 2200z failed also. This issue is under investigation by APL, Goddard, and JPL network engineers. This anomaly resulted in the loss of 1.5 hours of real-time commanding. Also during the support, turbo decoder lock was lost briefly at 2207z. This anomaly resulted in the loss of 89 frames of SSR data. See DRs #M113357 and #M113364 for more information.
- On day 086, during the DSS-56 support, the MOC was not able to perform the SLE command bind, due to an unknown network issue. This issue is under investigation by APL, Goddard, and JPL network engineers. This anomaly resulted in the loss of 3.3 hours of real-time commanding. See DR# M113360 for more information.
- On day 087, during the DSS-43 support, the MOC was not able to perform the SLE command bind, due to an unknown network issue. This issue is under investigation by APL, Goddard, and JPL network engineers. This anomaly resulted in the loss of 2.8 hours of real-time commanding. See DR# C115568 for more information.
- On day 087, during the DSS-63 support, the MOC successfully performed the SLE command bind to the station after configuring the MOC for the legacy command network. There is currently an unknown problem on the L3VPN command network. This L3VPN issue is under investigation by APL, Goddard, and JPL network engineers. The MOC will remain on the legacy command network until the L3VPN issue is resolved.

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

- On day 083, the tenth battery discharge event was conducted successfully at 1955z on the Ahead spacecraft to redistribute the electrolytes within the nickel hydrogen battery cells.
- As of day 087, 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 6.4 Gbits during this week.