

STEREO MOC Status Report  
Time Period: 2020:286 - 2020:292

STEREO Ahead (STA) Status:

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

- On day 286, during the DSS-83 (ESA Cebreros) support, turbo decoder lock was lost briefly at 1630z, due to a glitch in the downlink signal that ESA reported. This anomaly resulted in the loss of five frames of SSR data. The MOC performed an SLE offline telemetry retrieval from downlink chain #2, which did not recover any additional data.
- On day 289, during the DSS-36 support, command bind was aborted at 0729z due to an unknown reason, which is under investigation by DSN. This anomaly had no impact on operations and command bind was reestablished at 0828z. See DR #G121412 for more information.
- On day 289, during the DSS-36 and DSS-63 supports, the File Delivery Service (FDS) was down, due to a network problem. This anomaly delayed the nominal delivery of telemetry files during the tracks until a manual retrieval was performed by MOPs at 289-2330z. See DR #C115231 for more information.
- On day 290, during the DSS-34 support, initial acquisition of telemetry was 3.25 minutes late at 0503z, due to a Downlink Channel Control Processor failure. In addition, turbo decoder lock was lost briefly at 0736z. This anomaly resulted in the loss of 1.25 minutes of SSR data. The command bind was aborted at 0554z due to an unknown reason, which is under investigation by DSN. On the subsequent DSS-56 support, MOPs repositioned the SSR pointers and recovered all the affected DSS-34 data. See DR #C115230 for more information.
- On day 290, the Project Interface Test (PIT) was conducted successfully for DSS-56 (new Madrid 34M antenna). The MOC received monitor data, telemetry, and sent commands from all three IONET workstations. The station lost connection to UPA1 and aborted the command bind at 1620z, due to a connection engine issue. This anomaly had no impact on operations and command bind was reestablished at 1633z. See DR #M112708 for more information.

- On day 290, during the DSS-25 support, command bind was aborted at 291-0056z due to an unknown reason, which is under investigation by DSN. This anomaly had no impact on operations and command bind was reestablished at 291-0233z. See DR #G121412 for more information.
- On day 292, during the DSS-14 support, command bind was aborted at 2154z due to an unknown reason, which is under investigation by DSN. This anomaly had no impact on operations and command bind was reestablished at 2233z.

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

- As of day 292, 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 6.1 Gbits during this week.