

STEREO MOC Status Report

Time Period: 2023:170 (Jun 19) - 2023:176 (Jun 25)

STEREO Ahead (STA) Status:

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

- On day 172 (Jun 21), during the DSS-25 support, the real-time telemetry delivered to the MOC had an incorrect DOY for ground receipt time (GRT) that started at 2023-172-19:46z, at seconds "20" the GRT DOY jumped forward by two days to 2023-174-19:46:20z, and it continued to be reported incorrectly as DOY 174 for the remainder of the track. The IDR telemetry file generation and delivery from the Data Capture and Delivery Subsystem (DCD) also stopped at 1946z. This anomaly resulted in the loss of 8.5 hours of SSR data. DSN regenerated the IDR telemetry files on DOY 173 and recovered all the affected data. See DR #G123792 for more information.
- On day 176 (Jun 25), during the DSS-54 support, the antenna was declared red, due to a mechanical problem. This anomaly resulted in the loss of four hours of real-time telemetry, command, tracking and SSR data. The MOPs team repositioned the SSR pointers during the subsequent DSS-35 track and recovered all the affected data. See DR #M115970 for more information.

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

- As of day 176 (Jun 25), 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 5.8 Gbits during this week.