STEREO MOC Status Report
Time Period: 2023:051 (Feb 20) – 2023:057 (Feb 26)

STEREO Ahead (STA) Status:

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

   - On 051 (Feb 20), APL network engineers successfully performed the MOC annual IONET IT security scans.

   - On day 051 (Feb 20), during the DSS-65 support, the beginning of track was delayed 30 minutes until 1955z, due to a LNA problem. This anomaly resulted in the loss of 30 minutes of real-time telemetry, commanding, tracking, and SSR data. The MOPs team repositioned the SSR pointers during the support and recovered all the affected data. Later in the track, an operator error sent predicts for another mission to the wrong antenna, which caused the receiver to drop lock from 2025z to 2028z. This anomaly resulted in the loss of three minutes of real-time telemetry, commanding, tracking, and SSR data. See DRs #M115570 and #G123509 for more information.

   - On day 052 (Feb 21), during the DSS-35 support, turbo decoder lock was lost briefly at 0411z, and again at 0412z. This anomaly resulted in the loss of 602 frames of SSR data. See DR #C117149 for more information.

   - On day 054 (Feb 23), during the DSS-26 support, the beginning of track telemetry was delayed 2.5 minutes until 0432z, due to an unknown reason. This anomaly resulted in the loss of 2.5 minutes of real-time telemetry and SSR data. The MOPs team repositioned the SSR pointers during the subsequent DSS-65 track and recovered all the affected data. See DR #M115542 for more information.

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

   - On day 055 (Feb 24), the 65th SECCHI stepped calibration was executed at 1255z for aphelion in the Ahead orbit. This was the 34th SECCHI stepped calibration roll conducted without gyro use.

   - As of day 057 (Feb 26), 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 6.1 Gbits during this week.