

STEREO MOC Status Report
Time Period: 2019:343 - 2019:349

STEREO Ahead (STA) Status:

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

- On day 344, during the DSS-14 support, monitor data stopped updating between 0111z and 0130z due to a link connection problem. This anomaly had no operational impact. See DR#G120721 for more information.
- On day 347, during the DSS-14 support, the station lost link connection and monitor data stopped updating, resulting in the downlink receiver not locking at BOT. This anomaly resulted in loss of real-time telemetry between 0115z and 0120z, including the loss of three minutes of SSR data. See DR #G120738 and #G120740 for more information.
- On day 347, during the DSS-63 support, turbo decoder lock was lost briefly at 1924z. This anomaly resulted in the loss of 958 frames of SSR data. See DR #M111916 for more information.

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

- On day 343 (Dec 9), the Plastic instrument was Powered Off at 1814z to correct the high voltage shut-off anomaly, which began at 339-1911z (Dec 5). The Plastic team decided to remain powered off until after the momentum dump on day 344.
- On day 344, the 124th momentum dump was executed successfully at 1840z, which imparted an estimated delta V of 0.079 m/sec. This was the 43rd momentum dump that did not use the IMU. After thruster operations completed, there was a 0.27 degree of roll angle error. Fine pointing stabilized 2.5 minutes after completion of the momentum dump.

- On day 345 (Dec 11), the Plastic instrument was Powered On at 1808z and the high voltage was stepped to 5kV. The PLASTIC team continues to monitor and ramp up the high voltages.
- The average daily science data return for Ahead was 6.0 Gbits during this week.