

STEREO MOC Status Report  
Time Period: 2020:181 - 2020:187

STEREO Ahead (STA) Status:

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

- On day 184, during the DSS-63 support, the station lost connections and communication with all subsystems, which delayed commanding by 23 minutes and the 2-way downlink mode acquisition by four minutes. Also, turbo decoder lock was lost briefly at 1944z. These anomalies resulted in the loss of seven minutes of real-time telemetry and SSR data. On the subsequent DSS-25 support, MOPs repositioned the SSR pointers and all affected DSS-63 data was recovered. See DR #M112407 for more information.

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

- On day 181, the 129th momentum dump was executed successfully at 1500z, which imparted an estimated delta V of 0.076 m/sec. This was the 48th momentum dump conducted without gyro use. After thruster operations completed, there was a 0.4 degree of roll angle error. Fine pointing stabilized 3.5 minutes after completion of the momentum dump.
- As of day 187, 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 6.6 Gbits during this week.