

STEREO MOC Status Report
Time Period: 2009:173 - 2009:179

STEREO Ahead (STA) Status:

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

- On day 174, during the DSS 25 support, the transmitter could not complete calibration until 1330Z due to a power supply problem. This resulted in the loss of 83 minutes of commanding and two-way tracking data. See DR# G109511 for more information.
- On day 177, DSS 15 was declared red at 1430Z. An overlapping DSS 24 support was added as a backup to the scheduled DSS 15 support on day 178. However, seven minutes of SSR data was lost due to simultaneous uplinks from both stations at 1350Z. See DR# G109517 for more information.
- On day 180, with the restoration of all essential Internet connectivity services at APL, the MOC returned to unattended track operations. On day 165, at 1800Z, APL temporarily suspended its Internet connection to thwart a cyber attack. The Restricted IONet, the network that is used for real-time S/C operations, was unaffected. On day 166, at 1722Z, the three primary external workstations that receive DSN data and instrument remote commanding, and distribute real-time telemetry and data products were restored. This resulted in a one day delay of the processing and distribution of science data products. All SSR data was recovered. Also, real-time telemetry distribution and real-time remote instrument commanding were not available for three tracks.

2. Ahead spacecraft performance continues to be very good with all subsystems performing nominally. The following spacecraft/instrument events occurred during this week:

- On day 176, the 22nd momentum dump was successfully executed at 2000Z, which imparted a delta V of 0.0666 m/sec.
- The average daily SSR playback volume for Ahead was 6.0 Gbits during this week.

STEREO Behind (STB) Status:

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

- On day 176, during the DSS 55 support, telemetry lock was lost momentarily at 1624Z. Two SSR telemetry frames were lost resulting in minor data loss for SECCHI.
- On day 178, during the DSS 25 support, one way tracking data was delayed 10 minutes due to an equipment problem. This resulted in the loss of 10 minutes of one-way tracking data. See DR# G109521 for more information.
- On day 180, with the restoration of all essential Internet connectivity services at APL, the MOC returned to unattended track operations. On day 165, at 1800Z, APL temporarily suspended its Internet connection to thwart a cyber attack. The Restricted IONet, the network that is used for real-time S/C operations, was unaffected. On day 166, at 1722Z, the three primary external workstations that receive DSN data and instrument remote commanding, and distribute real-time telemetry and data products were restored. This resulted in a one day delay of the processing and distribution of science data products. All SSR data was recovered. Also, real-time telemetry distribution and real-time remote instrument commanding were not available for three tracks.

2. Behind spacecraft performance continues to be very good with all subsystems performing nominally. The following spacecraft/instrument events occurred during this week:

- The average daily SSR playback volume for Behind was 6.3 Gbits during this week.