

STEREO MOC Status Report
Time Period: 2009:215 - 2009:221

STEREO Ahead (STA) Status:

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

- On day 216, during the DSS 14 support, telemetry acquisition was 4 minutes late due to the antenna brakes setting. The antenna controller was reset with no further problem. See DR# G109586 for more information.
- On day 216, during the DSS 14 support at BOT, the voice communication lines were down between the ROC at JPL and the station. The black phone was used to support operations. See DR# N105446 for more information.
- On day 220, during the DSS 55 support, the antenna brakes were set at 1106z. The antenna was placed back on-line with all services 33 minutes later. This resulted in the loss of several hours of SSR data for all instruments. See DR# M105449 for more information.

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 216, during the DSS 55 support, IMPACT and PLASTIC reduced their instrument's high voltages in preparation for power down in support of the planned system reset on the next track.
- On day 216, during the DSS 14 support to activate the new G&C flight software version 3.2.6, the instruments were powered down by 0950z, and the **AHEAD** observatory was reset at 1010z. The S/C was recovered nominally over the next four hours. All instruments were powered on with the S/C in Standby mode using the HGA by 1518z, slightly ahead of schedule. By the end of the track, the SECCHI and SWAVES instruments had completed recovery back to their nominal science data collection configuration. Thank you to the DSN, S/C engineering, and instrument teams for their cooperation to help make the activation go smoothly.
- On day 217, during the DSS 14 support, PLASTIC and IMPACT SWEA/STE had completed recovery back to their nominal science data collection configuration, and IMPACT SEP continued to ramp-up their high voltages.

- On day 218, during the DSS 55 support, the final instrument, IMPACT SEP, had completed recovery back to their nominal science data collection configuration at 1315z.
- On day 220, during the DSS 55 support, the 60 hour soft command loss timer autonomy was disabled to prevent firing during an upcoming 57 hour station coverage gap due to DSS 24 being red.
- The average daily SSR playback volume for Ahead was 5.6 Gbits during this week.

STEREO Behind (STB) Status:

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

- On day 215, during the DSS 24 support, tracking data analysis by the FDF indicated what appeared to be a thrusting event on the S/C at 2304z; however, the S/C was operating nominally. The DSN analysis showed some dropped tracking data. **The anomaly was resolved to an FDF tracking data database error.** All SSR data was recovered. See AR# ST-A-2133 and DR# N105454 for more information.
- On day 219, during the DSS 24 support, a power glitch caused the antenna to stop tracking at 0255z. When the antenna was returned to tracking, the receiver could not lock to the downlink due to a receiver anomaly and subsequently, DSS 24 was declared red. This resulted in the loss of several hours of data on day 218/219 for all instruments. See DR# G109593 for more information.
- On day 219, DSS 15 was used since DSS 24 was declared red. All SSR data was recovered.

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

- On day 217, the 7th SECCHI HI 180 degree roll to observe the L5 libration point was executed successfully.
- On day 218, the SECCHI instrument reset at 21:33:44z. The SECCHI team reconfigured the instrument to operational mode at **219:02:15z**. This was the 8th reset of SECCHI on the Behind spacecraft.
- The average daily SSR playback volume for Behind was 6.0 Gbits during this week.