

STEREO MOC Status Report  
Time Period: 2009:131 - 2009:137

STEREO Ahead (STA) Status:

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

- On day 134, during the DSS 25 support, the antenna brakes were set for 39 minutes starting at 1309Z. This resulted in SSR data loss for all instruments. See DR# G109440 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 132, the 21<sup>st</sup> momentum dump was successfully executed at 1330Z, which imparted a delta V of 0.0716 m/sec.
- On day 134, SWAVES successfully loaded flight software version 4.10.
- The average daily SSR playback volume for Ahead was 5.9 Gbits during this week.

STEREO Behind (STB) Status:

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

- On day 131, during the DSS 34 support, telemetry lock was lost momentarily at 1023Z. Three SSR telemetry frames were lost resulting in minor data loss for SECCHI.
- On day 132, a backup antenna support, DSS 26, BOT on day 133-0130Z to EOT on day 133-0315Z, was added as to mitigate a possible azimuth antenna brake setting on DSS 14 during the planned system reset recovery. Thankfully, the DSS 14 performed nominally and the backup support was not required.
- On day 133, during the DSS 14 support, the receiver in DCC2 could not lock to the emergency data rate telemetry at 0012Z. Switched to the redundant receiver channel using DCC1 and telemetry was in lock at 0042Z. See DR# G109435 for more information.

- On day 134, during the DSS 14 support, the azimuth antenna brakes were set due to low film height at 0218Z. The antenna was reset at 0221Z and while the command link was maintained, a small amount of SECCHI SSR playback data was lost. See DR# G109439 for more information.

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 132, during the DSS 65 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 132, during the DSS 14 support to activate the new G&C flight software version 3.2.6, the instruments were powered down by 2310Z, and the BEHIND observatory was reset at 2337Z. The S/C was recovered nominally over the next four hours. All instruments were powered on with the S/C in Operational mode using the HGA by 0418Z, 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 133, during the DSS 14 support, SWAVES successfully loaded flight software version 4.10, 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 136, during the DSS 26 support, the final instrument, IMPACT SEP, had completed recovery back to their nominal science data collection configuration at 0305Z.
- The average daily SSR playback volume for Behind was 5.0 Gbits during this week.