

STEREO MOC Status Report
Time Period: 2009:068 - 2009:074

STEREO Ahead (STA) Status:

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

- None.

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 069, a SECCHI stepped calibration at the aphelion/perihelion midpoint was executed.
- On day 069, approximately four hours after SECCHI stepped calibration completed, the SECCHI instrument reset at 08:36:10Z. During the next track, the SECCHI team reconfigured the instrument to operational mode at 070:14:51Z. This was the 9th reset of SECCHI on the Ahead spacecraft.
- On day 071, the first SECCHI HI 180 degree roll to observe the L4 libration point was executed. The S/C off pointed approximately 5.1 degrees on the way back to nominal pointing. This caused the PLASTIC entrance system to shut down and the IMPACT STE-D cover to close, which is as designed when pointing is off by more than 5 degrees. Two waypoints, at 60 and 120 degrees, have been added and tested to the roll to and from 180 degrees.
- The average daily SSR playback volume for Ahead was 5.5 Gbits during this week.

STEREO Behind (STB) Status:

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

- On day 070, during the DSS 15 track, telemetry lock was briefly lost starting at 0440Z. This resulted in the loss of SECCHI SSR data. A DR has been requested.

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 068, the 20th momentum dump was successfully executed at 2000Z, which imparted a delta V of 0.0534 m/sec.
- On day 070, at 1528Z, the Behind spacecraft was at perihelion.
- IMU2 continues to be used as the G&C gyro sensor. While IMU1 is nominal, IMU2 is being used to characterize its performance.
- The average daily SSR playback volume for Behind was 6.1 Gbits during this week.