

STEREO MOC Status Report  
Time Period: 2009:082 - 2009:088

STEREO Ahead (STA) Status:

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

- On day 086, the ranging pre-calibration failed due to a failed X-band translator for the DSS 34 support. This resulted in degraded ranging data for this track. See DR# C106843 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 083, SWAVES successfully loaded flight software version 4.08.
- On day 084, the 20<sup>th</sup> momentum dump was successfully executed at 1430Z, which imparted a delta V of 0.0735 m/sec.
- On DOY 085, autonomy rule 28, Star Tracker Health, was modified to allow the spacecraft to continue communicating on the HGA as long as the transponder command detector achieves lock for each scheduled pass after a persistent loss of a valid star tracker solution.
- 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 086, the ranging pre-calibration failed due to a failed X-band translator for the DSS 34 support. This resulted in degraded ranging data for this track. See DR# C106844 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 084, SWAVES successfully loaded flight software version 4.08.
- On DOY 084, autonomy rule 28, Star Tracker Health, was modified to allow the spacecraft to continue communicating on the HGA as long as the transponder command detector achieves lock for each scheduled pass after a persistent loss of a valid star tracker solution.
- 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 6.4 Gbits during this week.