STEREO MOC Status Report
Time Period: 2006:352 - 2006:358

STEREO Ahead (STA) Status:

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

- On day 352, during the SECCHI software load, POC queue transmit errors occurred and some of the SECCHI commands were dropped. The POC queues were re-enabled and SECCHI successfully re-transmitted the commands. This also occurred a second time during the software load where both a SECCHI command and a PLASTIC command were dropped and needed to be re-transmitted. There were no adverse affects due to this problem and the cause is under investigation.

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

- The first SWAVES Calibration roll was executed on day 352 followed by a second executing on day 354 and third on day 357. This is a series of 10 slow (6 deg/min) 360 degree rolls about the spacecraft X axis taking 10 hours to complete. The rolls were completed successfully but autonomy rule 63 (promote star tracker from standby mode) executed many times during the course of the rolls most likely due to the moon or earth entering the star tracker field of view.
- On day 354 the first High Gain Antenna calibration occurred. This was the first time that the HGA was used for command and telemetry. The test was successful but the DSN attenuators were required due to the high downlink power which resulted in imprecise downlink power measurements from the DSN. The second of these calibrations occurred on day 355 which also completed successfully.
- On day 355 a SECCHI Guide Telescope calibration was successfully conducted.
- On days 356 through 358, spooler que anomalies were incrementing throughout the tracks. On day 356 the anomalies were stopped when SECCHI discontinued

downloading images in real-time. Real-time images should not be downloaded without advance coordination between the SECCHI POC and the MOC. While the real-time downlink was over filled, there were no significant problems due to this problem.

- On day 356 IMPACT lost data on the SSR due to an incomplete second playback of this partition on day 355. The write limit pointer was moved to free up space on the IMPACT partition.

STEREO Behind (STB) Status:

1. The following Ground System anomalies occurred during this reporting period which are described below:

- On day 354, station DSS-34 had about a 20 minute late acquisition due to the use of an incorrect receiver table. The station used a BIOL table vice the correct NRZL table.
- On day 355, acquisition of signal was 23 minutes late due to the loading of an incorrect macro execution for the downlink on this track. The correct macro was executed in real-time and the downlink was acquired at station DSS-24.

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

- The first SWAVES Calibration roll was executed on day 353. This was a series of 10 slow (6 deg/min) 360 degree rolls about the spacecraft X axis taking 10 hours to complete.
- On day 354 a SECCHI Guide Telescope calibration was successfully conducted.
- The S1+ delta V maneuver was successfully conducted on day 355. This maneuver imparted an 11.065 m/sec delta V to the spacecraft to attain a lunar transit across the Sun on Feb 25, 2007.