

STEREO MOC Status Report
Time Period: 2007:022 - 2007:028

STEREO Ahead (STA) Status:

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

- On day 024, station DSS-34 dropped command and telemetry for 10 minutes beginning at 2318Z due to an antenna failure.
- On day 026, station DSS-25 began the track with a transmitter problem. The transmitter remained red until 1615Z, approximately 69 minutes after BOT. All track objectives were achieved.

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 022, the G&C wheel speed avoidance was enabled to avoid a wheel speed of 0 rpm.
- On day 023, the G&C control bandwidth was tightened. All indications are that jitter has been reduced with this change.
- On day 025 G&C was configured to use Guide Telescope rates.
- On day 025 there was a watchdog reset on the SECCHI instrument at 04:37Z. This caused SECCHI to re-boot into maintenance mode. At approximately 19:30Z on day 025, SECCHI was transitioned back to operations mode.
- On day 027 G&C was configured to not use Guide Telescope rates. GT rate use was disabled due to unusual operation when SECCHI re-booted into maintenance mode on day 025.

STEREO Behind (STB) Status:

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

- On day 024 the SSR playback had already started prior to BOT. The SSR pointers were moved back and the

playback was re-started after BOT to recover all the SSR data. This problem is due to an error in scheduling software which did not change the time of events that occur a set time after BOT when the track time changed. A fix for this problem has now been approved and implemented.

- On day 025 during the track with DSS-26, there were several real-time telemetry dropouts. These dropouts were traced to the GSFC routers at APL being upgraded at this time to fix security vulnerabilities.

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 022, the G&C wheel speed avoidance was enabled to avoid a wheel speed of 0 rpm.
- On day 022 the High Gain Antenna was placed into Auto Track.
- On day 022 the spacecraft was placed into Operational Mode.
- On day 024, the G&C control bandwidth was tightened. All indications are that jitter has been reduced with this change.
- On day 025 a SECCHI stray light off-point event was completed.
- On day 026 G&C was configured to use Guide Telescope rates.
- On day 027 G&C was configured to not use Guide Telescope rates. GT rate use was disabled due to unusual operation when SECCHI re-booted into maintenance mode on Spacecraft A, day 025.