

STEREO MOC Status Report
Time Period: 2014:097 - 2014:103

STEREO Ahead (STA) Status:

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

- On day 097, a Return-To-Service (RTS) engineering demo was conducted with DSS-63. The purpose was to validate X-band tracking performance after the completion of the depot level maintenance (DLM) and re-grouting activities. All test objectives were met successfully. Tracking, telemetry, and command data from this support was non-committed.
- On day 099, during the DSS-55 support, turbo decoder lock was lost briefly at 0929z. This anomaly resulted in the loss of two frames of SSR data.
- On day 100, due to an organized cyber-attack on JHU/APL, as a precautionary measure, external access to the STEREO MOC was locked down for incoming traffic earlier than the planned date on day 104. Access is still available using APL supplied VPN access or from a static IP address. Note that the STEREO MOC networks were not affected by the cyber-attack.
- On day 103, during the DSS-65 support, turbo decoder lock was lost intermittently between 1006z and 1033z, and a full drop in lock between 1033z and 1039z. This anomaly resulted in the loss of 1840 frames of SSR data. See DR #N109535 for more information.

2. The following spacecraft/instrument events occurred during this week:

- The average daily SSR playback volume for Ahead was 4.5 Gbits during this week.

STEREO Behind (STB) Status:

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

- On day 100, due to an organized cyber-attack on JHU/APL, as a precautionary measure, external access to the STEREO MOC was locked down for incoming traffic earlier than the planned date on day 104. Access is still available using APL supplied VPN access or from a static IP address. Note that the STEREO MOC networks were not affected by the cyber-attack.
- On day 100, during the DSS-25 support, turbo decoder lock was lost briefly at 2029z. This anomaly resulted in the loss of three frames of SSR data.

2. The following spacecraft/instrument events occurred during this week:

- The HGA feed has exceeded its operational temperature limit. While the HGA feed is an all metal waveguide design, the temperature will increase as the SPE angle decreases. Detailed thermal analysis is underway and off pointing the HGA will most likely be necessary on both observatories.
- The average daily SSR playback volume for Behind was 4.4 Gbits during this week.