

STEREO MOC Status Report
Time Period: 2014:202 - 2014:208

STEREO Ahead (STA) Status:

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

- On day 203, during the DSS-63 support, turbo decoder lock was lost briefly at 1033z. This anomaly resulted in the loss of one frame of SSR data.

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

- On day 206, the HGA soft stop was reduced from 8.1 to 7.2 degrees in G&C RAM. Since July 2, 2014, the HGA feed temperature has been rising slower than previously observed or predicted. The above change will allow the HGA to follow the declining SPE angle up to August 20, 2014, when side lobe operations will commence. During this period, the HGA feed temperature will continue to be monitored closely. This will allow additional data to be collected at lower SPE angles to recover the HGA to the main lobe sooner post solar conjunction.
- The average daily SSR playback volume for Ahead was 4.9 Gbits during this week.

STEREO Behind (STB) Status:

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

- On day 203, during the DSS-55 support, turbo decoder lock was lost briefly at 0910z. This anomaly resulted in the loss of four frames of SSR data.
- On day 203, during the setup for the DSS-14 support, the pre-track ranging calibration failed. A ranging post-track calibration was performed. See DR #G115260 for more information.

- On day 204, a project interface test was conducted successfully with DSS-35, the new 34m BWG antenna at the DSN Canberra complex, at 2330z. The MOC successfully bound with telemetry server and with the station for commanding, received spacecraft telemetry with a good SNR, and sent 31 commands to the Behind observatory, from all three MOC command workstations.
- On day 206, during the DSS-24 support, acquisition of telemetry occurred 14 minutes late at 2314z due to fault isolation from an uplink anomaly. The track remained downlink only. SSR pointers were repositioned on the next support with DSS-55 at 207-0840z to recover lost data. This anomaly resulted in the loss of all commanding and two-way tracking data and one frame of SSR data. See DR #G115274 for more information.
- On day 208, during the DSS-54 support, acquisition of telemetry occurred 54 minutes late at 1059z due to an antenna pointing anomaly. SSR pointers were repositioned to recover lost data. All SSR data was recovered. See DR #M108195 for more information.
- On day 208, a project interface test was conducted successfully at 1800z with DSS-26, after installation of an 80 kW transmitter. The MOC received spacecraft telemetry at the 160 kbps downlink rate with a good SNR and sent two commands to the Behind observatory. Telemetry lock was lost at 1924z for 11 minutes due to receiver issue. See DR #G115277 for more information.

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

- The average daily SSR playback volume for Behind was 4.3 Gbits during this week.