

STEREO MOC Status Report
Time Period: 2014:230 - 2014:236

STEREO Ahead (STA) Status:

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

- On day 232, during the DSS-14 support, which was the first side lobe operational track, ranging lock was lost intermittently beginning at 1708z through 1915z. During the week, the same issue occurred at all three DSN complexes. Low ranging margin is a known issue for side lobe operations and the FDF can meet ephemeris accuracy requirements using Doppler data only. See DR #G115365, #M108275, and #C110502 for more information.
- On day 233, during the DSS-14 support, turbo decoder lock was lost briefly beginning at 1746z and 1748z. This anomaly resulted in the loss of two frames of SSR data. See DR #G115376 for more information.

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

- On day 231, in preparations for Ahead side lobe operations, instrument switched to their first side lobe telemetry generation rates at 0000z. Later this day, during the DSS-14 support, the IMPACT SWEA/STE instruments were powered off at 1430z, the SSR was emptied, loaded DHS parameters version 1.1.8 to C&DH RAM, reconfigured the SSR partitions, and the HGA was positioned to the first side lobe.
- On day 232, during the DSS-14 support, side lobe operations commenced on the Ahead observatory to mitigate HGA feed overheating. The received downlink signal was good with 5 dB of margin with a starting elevation of 43 degrees and rising. The spacecraft SSR playback only returned half the expected data volume. The spacecraft SSR playback duration was increased 14 minutes to stop when the SECCHI imaging schedule commences and the playback ratio was increased to two to correct.
- The average daily SSR playback volume for Ahead was 1.1 Gbits during this week.

STEREO Behind (STB) Status:

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

- On day 231, during the DSS-65 support, turbo decoder lock was lost briefly beginning at 1549z. This anomaly resulted in the loss of one frame of SSR data.
- On day 233, during the DSS-25 support, command bind was lost at 1708z. The MOC rebound the command link. All SSR data was received. See DR #G115374 for more information.

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

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