STEREO MOC Status Report
Time Period: 2014:055 – 2014:061

STEREO Ahead (STA) Status:

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

   - On day 059, during the DSS-14 support, turbo decoder lock was lost intermittently beginning at 1902z through 1904z. This anomaly resulted in the loss of 2786 frames of SSR data. A DR has been requested.

   - On day 061, during the DSS-65 support, turbo decoder lock was lost intermittently beginning at 1512z through 1514z. This anomaly resulted in the loss of two frames of SSR data.

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

   - On day 056, MOps permanent macro release 1.1.18 was loaded to C&DH RAM. This release modified MOps macros to suppress invalid telemetry indications when the IMU is not powered.

   - On day 058, the SECCHI instrument reset at 09:54:51z. The SECCHI team reconfigured the instrument to operational mode at 1705z. This was the 33rd reset of SECCHI on the Ahead spacecraft.

   - The average daily SSR playback volume for Ahead was 3.6 Gbits during this week.

STEREO Behind (STB) Status:

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

   - On day 055, during the DSS-26 support, turbo decoder lock was lost briefly at 056-0101z. This anomaly resulted in the loss of one frame of SSR data.

- On day 056, during the DSS-14 support, turbo decoder lock was lost intermittently between 057-0057z and 0100z. This anomaly resulted in the loss of three frames of SSR data.

- On day 057, during the DSS-26 support, initial telemetry was established 0.7 hours late due to a database problem at the station. This anomaly resulted in the loss of 0.7 hours of SSR data as well as 344 frames of SSR data that resulted from the subsequent late uplink sweep. See DR #G114717 for more information.

- On day 059, during the DSS-43 support, turbo decoder lock was lost intermittently between 0608z and 0609z, then again between 0634z and 0639z. This anomaly resulted in the loss of 427 frames of SSR data. See DR# N109470 for more information.

- On day 059, during the DSS-25 support, initial telemetry was established 0.3 hours late due to a transmitter problem at the station. All SSR pointers were re-positioned to recover data lost during the anomaly. See DR# G114728 for more information. Later in the track, turbo decoder lock was lost intermittently between 060-0015z and 0043z due to rain. This anomaly resulted in the loss of 9130 frames of SSR data. See DR# G114730 for more information.

- On day 061, during the DSS-43 support, turbo decoder lock was lost intermittently between 0555z and 0602z. This anomaly resulted in the loss of 46 frames of SSR data.

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

- On day 056, the IMPACT IDPU/MAG and SWEA power services were powered cycled at 2241z which cleared the MAG instrument anomaly that occurred on 051-0300z. Subsequently, the IDPU stopped receiving data from the PLASTIC instrument. On day 057, the IDPU was soft reset at 2231z which restored the connectivity of the PLASTIC instrument.

- On day 058, the 60th momentum dump was executed successfully at 0030Z, which imparted a delta V of 0.0822 m/sec.

- On day 058, the full Reduced Gyro Operations (RGO) fault protection capability, consisting of fault protection release 2.3.13 and MOps macro permanent release 1.1.19,

was loaded to C&DH RAM and enabled on the Behind observatory at 1533z. The RGO extends the life of the remaining IMU by keeping it off most of the time and turning it on only when high rate data is required, such as the periodic momentum dumps, instrument roll calibrations, and spacecraft safety.

- The average daily SSR playback volume for Behind was 3.7 Gbits during this week.