

STEREO MOC Status Report
Time Period: 2013:343 - 2013:349

STEREO Ahead (STA) Status:

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

- On day 343, during the DSS-63 support, no commanding or ranging was conducted due to a transmitter problem. See DR #M107603 more information.

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

- On day 343, the 4th SECCHI 30 degree comet Ison roll was executed successfully at 0200z.
- On day 344, the 5th SECCHI 30 degree comet Ison roll was executed successfully at 0200z.
- On day 344, after powering off the IMU at 0625z following the comet Ison roll, the spacecraft began dropping fine-pointing lock intermittently. This behavior continued until the IMU was powered on at 1125z in preparation for the upcoming Comet Ison roll. The G&C engineer has not identified the cause of the problem definitively, but reaction wheel 2 was at the lowest speed during this time period and there are known bearing lubrication issues when the wheels operate in low speed regions. The engineer team will continue to investigate the guidance and control performance.
- On day 345, the 6th SECCHI 30 degree comet Ison roll was executed successfully at 0200z.
- On day 345, IMPACT conducted real-time commanding at 1528z to recover from a SEPT-N latch-up, which occurred at 338-0733z.
- On day 347, the 28th SECCHI stepped calibration was executed successfully at 0405z for the midpoint in the orbit.
- The average daily SSR playback volume for Ahead was 4.1 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies/events occurred during this reporting period:
 - On day 343, during the DSS-65 support, turbo decoder lock was lost briefly at 1430z. This anomaly resulted in the loss of one frame of SSR data.
 - On day 346, during the DSS-65 support, turbo decoder lock was lost briefly at 1055z. This anomaly resulted in the loss of four frames of SSR data.

2. The following spacecraft/instrument events occurred during this week:
 - On day 343, the 9th SECCHI 290 degree comet Ison roll was executed successfully at 0200z.
 - On day 344, the 10th SECCHI 290 degree comet Ison roll was executed successfully at 0200z.
 - On day 345, the 11th SECCHI 290 degree comet Ison roll was executed successfully at 0200z.
 - On day 345, the SSR science partitions filled as follows:

SWAVES (Part 13) reached 100% full at 1825z for 4.0 hours.
PLASTIC (Part 17) reached 95% full at 1821z for 4.2 hours.
The primary cause was the accumulated shortage of track time throughout the week.
 - On day 346, the SSR science partitions filled as follows:

SWAVES (Part 13) reached 100% full at 0457z for 7.1 hours.
PLASTIC (Part 17) reached 95% full at 0436z for 7.6 hours.
The primary cause was the accumulated shortage of track time throughout the week.
 - On day 347, the SSR science partitions filled as follows:

SWAVES (Part 13) reached 100% full at 0353z for 2.1 hours.
SWAVES (Part 13) reached 100% full at 1206z for 10.1 hours.
PLASTIC (Part 17) reached 95% full at 0211z for 4.0 hours.
PLASTIC (Part 17) reached 95% full at 1121z for 10.8 hours.
The primary cause was the accumulated shortage of track time throughout the week.

- The average daily SSR playback volume for Behind was 2.7 Gbits during this week.