STEREO MOC Status Report
Time Period: 2013:154 – 2013:160

STEREO Ahead (STA) Status:

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

    • On day 154, during the DSS-63 support, turbo decoder lock
      was lost intermittently beginning at 0521z through 0740z.
      This anomaly resulted in the loss of 1776 frames of SSR
      data. See DR #N108901 for more information.

    • On day 155, during the DSS-55 support, turbo decoder lock
      was lost briefly at 0539z and again at 0542z. This anomaly
      resulted in the loss of five frames of SSR data. See DR
      #N108907 for more information.

    • On day 157, DSN performed the DSS-43 Return-To-Service (RTS)
      Engineering Demo.

    • On day 158, during the DSS-63 support, the receiver and
      ranging processor unexpectedly went out of lock beginning at
      0631z through 0658z. Also during this track, turbo decoder
      lock was lost intermittently between 0703z–0812z. These
      anomalies resulted in the loss of 74428 frames of SSR data.
      See DR #M107346 for more information.

    • On day 159, during the DSS-14 support, no telemetry for the
      entire track because the antenna was declared red at BOT due
      to an antenna cooling problem. During the next support with
      DSS-43 (RTS engineering demo), the SSR pointers were
      repositioned to minimize data loss. The anomaly resulted in
      the loss of two hours of SSR data for the SECCHI instrument.
      See DR #G113986 for more information.

    • On day 159, DSN performed the DSS-43 Return-To-Service (RTS)
      Engineering Demo. The end of track was extended to 160–
      0330z to assist STEREO Ahead with recovering lost SSR data
      from the failed DSS-14 support.

    • On day 160, DSN performed the DSS-43 Return-To-Service (RTS)
      Engineering Demo.

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

- On day 162, the 26th SECCHI stepped calibration was executed at 0835z for the midpoint in the orbit.

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

STEREO Behind (STB) Status:

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

- On day 155, during the DSS-84 ESA support, telemetry and commanding was not available in the MOC from 1944z through 2001z due the SLE Binds aborting. The problem was with the JPL Matrix Switch controller, which required a reset. All SSR data was recovered via an SLE offline transfer. See DR #N108909 for more information.

- On day 156, during the DSS-65 support, turbo decoder lock was lost briefly at 1633z. This anomaly resulted in the loss of two frames of SSR data. See DR #N108921 for more information.

- On day 157, during the DSS-65 support, turbo decoder lock was lost briefly at 1816z. This anomaly resulted in the loss of one frame of SSR data. See DR #N108922 for more information.

- On day 158, during the DSS-63 support, turbo decoder lock was lost intermittently beginning at 1548z through 1835z. This anomaly resulted in the loss of 54 frames of SSR data. See DR #N108932 for more information.

- On day 159, during the DSS-54 support, turbo decoder lock was lost briefly at 1809z. Also during this support, the SLE command bind was lost at 1633z until the MOC automation successfully recovered the bind at 1803z. The turbo decoder anomaly resulted in the loss of 16 frames of SSR data. See DRs #N108930 and #N108931 respectively for more information.

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

- On day 158, IMPACT conducted real-time commanding at 1608z for HET to set thresholds and disable stimulus event generation.

- The average daily SSR playback volume for Behind was 3.9 Gbits during this week.