

STEREO MOC Status Report
Time Period: 2013:014 - 2013:020

STEREO Ahead (STA) Status:

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

- On day 014, during the DSS-15 track, turbo decoder lock was lost intermittently beginning at 1430z (BOT) through 2120z (EOT) due to an antenna elevation encoder problem. This anomaly resulted in sporadic SSR data loss from day 013 through 014. See DR #G113610 for more information.
- On day 015, during the DSS-15 track, initial telemetry lock and commanding were established 1.25 hours late at 1545z due to an antenna elevation encoder problem. No ranging was performed for this track. This anomaly resulted in the loss of 1.25 hours of SSR data for each instrument. See DR #G113613 for more information.
- On day 018, during the DSS-34 track, turbo decoder lock was lost briefly at 2056z. This anomaly resulted in the loss of one frame of SSR data. See DR #N108615 for more information.
- On day 020, during the DSS-15 track, monitor data was not received throughout the entire support. Other than a delay in commanding, this anomaly had no other impact. See DR G113631 for more information.
- On day 020, during the DSS-15 track, a DCD failover occurred as a result of a fault tolerance check. This anomaly had no impact, since all data was recovered. See DR N108607 for more information.

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

- On day 016, the SSR science partitions filled as follows:

SWAVES (Part 13) reached 100% full at 1052z for 8.4 hours.
SWAVES (Part 13) reached 100% full at 2315z for 0.8 hours.
IMPACT (Part 15) reached 95% full at 1222z for 7.2 hours.
IMPACT (Part 15) reached 95% full at 2249z for 1.2 hours.
PLASTIC(Part 17) reached 95% full at 1549z for 3.6 hours.

PLASTIC(Part 17) reached 95% full at 2311z for 0.8 hours.

The primary cause was the accumulated shortage of track time throughout the week.

- On day 017, the SSR science partitions filled as follows:

SWAVES (Part 13) remained 100% full at 0000z for 14.4 hours.
SWAVES (Part 13) reached 100% full at 1742z for 1.5 hours.
SWAVES (Part 13) reached 100% full at 2319z for 0.7 hours.
IMPACT (Part 15) remained 95% full at 0000z for 14.9 hours.
IMPACT (Part 15) reached 95% full at 1654z for 2.5 hours.
IMPACT (Part 15) reached 95% full at 2308z for 0.9 hours.
PLASTIC(Part 17) remained 95% full at 0000z for 14.5 hours.
PLASTIC(Part 17) reached 95% full at 1727z for 1.9 hours.
PLASTIC(Part 17) reached 95% full at 2316z for 0.7 hours.

The primary cause was the accumulated shortage of track time throughout the week.

- On day 018, the SSR science partitions filled as follows:

SWAVES (Part 13) remained 100% full at 0000z for 19.2 hours.
IMPACT (Part 15) remained 95% full at 0000z for 19.7 hours.
PLASTIC(Part 17) remained 95% full at 0000z for 19.4 hours.
SECCHI (Part 19) remained 100% full at 1212z for 7.0 hours.

The primary cause was the accumulated shortage of track time throughout the week.

- On day 019, the SSR science partitions filled as follows:

SWAVES (Part 13) remained 100% full at 0233z for 4.8 hours.
SWAVES (Part 13) remained 100% full at 1624z for 2.8 hours.
IMPACT (Part 15) remained 95% full at 0141z for 5.8 hours.
IMPACT (Part 15) remained 95% full at 1606z for 3.3 hours.
PLASTIC(Part 17) remained 95% full at 0219z for 5.2 hours.
PLASTIC(Part 17) remained 95% full at 1626z for 3.0 hours.
SECCHI (Part 19) remained 100% full at 0535z for 1.7 hours.

The primary cause was the accumulated shortage of track time throughout the week.

- On day 019, the SSR science partitions filled as follows:

SWAVES (Part 13) remained 100% full at 0513z for 2.2 hours.
IMPACT (Part 15) remained 95% full at 0504z for 2.5 hours.
PLASTIC(Part 17) remained 95% full at 0517z for 2.3 hours.

The primary cause was the accumulated shortage of track time throughout the week.

- The average daily SSR playback volume for Ahead was 1.3 Gbits during this week.

STEREO Behind (STB) Status:

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

- On day 016, during the DSS-32 (New Norcia) support, turbo decoder lock was lost briefly at 0048z. This anomaly resulted in the loss of six frames of SSR data. This anomaly was investigated with ESA and the cause was reported as unknown.
- On day 017, during the DSS-63 track, the antenna brake was applied at 1618z causing the loss of telemetry, commanding, and ranging for the remainder of the track. The problem was caused by a pump failure in the Hydrostatic Bearing Assembly. This anomaly resulted in the loss of 1.5 hours of SSR data. See DR #M107074 for more information.
- On day 020, during the DSS-65 track, initial telemetry lock was approximately 6 minutes late due to a MASER receiver failure. A switch to the HEMT receiver was performed and telemetry lock achieved at 1351z. Turbo decoder lock was also lost intermittently throughout the support due to weather, resulting in the loss of several minutes (16878 frames) of SSR data. Finally, during this support a DCD failover occurred as a result of a fault tolerance check. See DRs M107078, M107079 and N108613 respectively for more information.

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

- On day 019, the SSR science partitions filled as follows:

SWAVES (Part 13) remained 100% full at 1813z for 0.9 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.