

STEREO MOC Status Report
Time Period: 2010:277 - 2010:283

STEREO Ahead (STA) Status:

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

- On day 277, during the DSS 34 support, BOT was 12 minutes late due to a procedural error at the Canberra complex. SSR pointers were repositioned and all SSR data was recovered. See DR# C107648 for more information.
- On day 278, DSS 25 was declared red before the start of the support. The support was moved to DSS 15; however, the end of track was 3.25 hours early. All SSR data was recovered. See DR# G110607 for more information.
- On day 279, as DSS 25 was still red due to an ongoing antenna pointing anomaly, the support was moved to DSS 15 in its entirety. All SSR data was recovered. See DR# G110620 for more information.
- On day 280, DSS 26 was declared red before the start of the support. The support was moved to DSS 15; however, the BOT was 43 minutes late and the end of track was 2 hours early. This resulted in the loss of approximately six to nine hours instrument SSR data. See DR# G110624 for more information.
- On day 281, as DSS 25 was still red due to an ongoing antenna pointing anomaly, AHEAD was scheduled to use the return to service track with DSS 14, however, it was red as well due to a pointing anomaly until 1401z and tracked for 1.4 hours. However, the MOC did not receive any data due to a mis-configuration of the DCD. SSR pointers were repositioned during the next track and all SSR data was recovered. See DR# G110639 and N106613 for more information.
- On day 282, during the DSS 55 support, telemetry lock was lost intermittently at 0335z through 0341z and again at 0807z through 0810z due to very heavy rain. At 0826z, the uplink was lost due to transmitter alarms. This resulted in the loss of several minutes of instrument SSR data. See DR# M105987 and M105988 for more information.
- On day 283, during the DSS 65 support, turbo decoder lock was lost briefly at 0511z. This resulted in the loss of several minutes of instrument SSR data.
- On day 283, as DSS 25 was still red due to an ongoing antenna pointing anomaly, the support was moved to DSS 26;

however, the end of track was 2.75 hours early. This is expected to cause several hours of instrument SSR data loss. See DR# G110648 for more information.

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

- On day 278, during the DSS 15 support, the telemetry modulation index was changed from 0.6 to 0.82 radians in C&DH RAM for the space weather broadcast only. This was done to lengthen the use of the space weather signal reception at the NOAA stations.
- The average daily SSR playback volume for Ahead was 4.7 Gbits during this week.

STEREO Behind (STB) Status:

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

- On day 277, during the DSS 65 support, turbo decoder lock was lost intermittently at 1516z for 14 minutes due to an antenna pointing anomaly. This resulted in the loss of 121 frames of instrument SSR data. See DR# M105978 for more information.
- On day 278, DSS 25 was declared red, due to a failed antenna controller, before the start of the support. As no other antennas were available this support did not occur. As the SSR was nearly empty five hours before and the next track was 13 hours away, all SSR data was recovered. See DR# G110605 for more information.
- On day 278, during the DSS 54 support, the command bind aborted due to an exciter anomaly at 1649z and 1733z. The turbo decoder also lost lock momentarily at 1733z. This resulted in the loss of one frame of instrument SSR data. See DR# M105980 for more information.
- On day 278, during the DSS 24 support, the downlink was early at 0118z due to a planning software anomaly in the MOC. This MOC planning software anomaly (CR #6486) had been discovered a month ago and while a fix is being tested, it had not been deployed yet. This resulted in the loss of an hour of instrument SSR data.
- On day 279, during the DSS 45 support, turbo decoder lock was lost intermittently at 0647z for 14 minutes due to an antenna pointing anomaly. This resulted in the loss of

approximately five minutes of instrument SSR data. See DR# N106614 for more information.

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

- On day 281, the 15th SECCHI stepped calibration, for aphelion, was executed.
- On day 281, during the DSS 54 support, the 60 hour soft command loss timer autonomy rule was disabled to prevent firing during the planned RIONet outage at APL.
- The average daily SSR playback volume for Behind was 4.8 Gbits during this week.