

STEREO MOC Status Report
Time Period: 2020:139 - 2020:145

STEREO Ahead (STA) Status:

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

- On day 142, during the DSS-34 support, turbo decoder lock was lost briefly at 0642z. This anomaly resulted in the loss of three frames of SSR data.
- On day 145, the MOC SDS system (cho) RAID drive experienced a glitch and rebooted at 0021z. The SOF maintenance team was able to get the RAID disk back online by 0127z. The NFS disk mounts from the other assessment and planning workstations remained unstable until day 147 (Tuesday) at 1240z, when the maintenance team reshared the disk drive. The disk problems resulted in a delayed delivery for MOC data products for days 145 and 146.

2. The following spacecraft/instrument events occurred during this week. The Ahead observatory operated nominally during this week.

- On day 139, the 128th momentum dump was executed successfully at 1800z, which imparted an estimated delta V of 0.069 m/sec. This was the 47th momentum dump conducted without gyro use. After thruster operations completed, there was a 1.10 degree of roll angle error. Fine pointing stabilized 4.3 minutes after completion of the momentum dump.
- As of day 145, all PLASTIC systems are behaving well, except there is a high background count rate, which the team is continuing to monitor.
- The average daily science data return for Ahead was 7.8 Gbits during this week.