

STEREO MOC Status Report
Time Period: 2020:097 - 2020:103

STEREO Ahead (STA) Status:

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

- On day 097, during the DSS-63 support, turbo decoder lock was lost briefly at 1811z. This anomaly resulted in the loss of 29 frames of SSR data.
- On day 098, during the DSS-35 support, turbo decoder lock was lost briefly at 0712z. This anomaly resulted in the loss of one frame of SSR data.
- On day 102, the DSS-63 support was shortened by 3 hours to an EOT of 1330z to accommodate the OSIRIS-REx mission with an uplink capability for their L3 maneuver. The SSR was emptied as previously planned, so this had no impact.

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

- On day 099, the SECCHI instrument reset at 16:38:40z. The SECCHI team reconfigured the instrument to operational mode by 2003z. This was the 60th reset of the SECCHI instrument on the Ahead observatory.
- On day 099, the 127th momentum dump was executed successfully at 2145z, which imparted an estimated delta V of 0.081 m/sec. This was the 46th momentum dump conducted without gyro use. After thruster operations completed, there was a 1.02 degree of roll angle error. Fine pointing stabilized 4.3 minutes after completion of the momentum dump.
- As of day 103, 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 7.2 Gbits during this week.