

STEREO MOC Status Report

Time Period: 2022:080 (Mar 21) - 2022:086 (Mar 27)

STEREO Ahead (STA) Status:

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

- None.

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

- On day 080 (Mar 21), the SECCHI instrument reset at 20:29:23z. The SECCHI team reconfigured the instrument to operational mode by 081-0146z. This was the 69th reset of the SECCHI instrument on the Ahead observatory.
- On day 081 (Mar 22), the 145th momentum dump was executed successfully at 1945z, which imparted an estimated delta V of 0.065 m/sec. This was the 64th momentum dump conducted without gyro use. After thruster operations completed, there was a 0.47 degree of roll angle error. Fine pointing stabilized 3.2 minutes after completion of the momentum dump.
- On day 082 (Mar 23), the star tracker reset at 14:13:30z. Fault protection immediately promoted the star tracker back to AAD mode at 14:13:54z. The diagnostic data indicated that the reset cause was due to a Level 1 Software Reset (After EEPROM Loading Failure). This was the first occurrence for this type of Software Reset. This was the tenth star tracker reset on the Ahead observatory. This reset is still under investigation.
- As of day 086 (Mar 27), all PLASTIC systems are behaving well, except there is a moderate background count rate, which the team is continuing to monitor.
- The average daily science data return for Ahead was 6.5 Gbits during this week.