

STEREO MOC Status Report

Time Period: 2024:113 (Apr 22) - 2024:119 (Apr 28)

STEREO Ahead (STA) Status:

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

- On day 114 (Apr 23), during the DSS-83 (ESA Cebreros) support, the beginning of track was delayed five minutes until 0345z, due to a late SLE Telemetry Bind between DSN and ESA. This anomaly resulted in the loss of five minutes of real-time telemetry and SSR data. The MOPs team repositioned the SSR pointers during the track and recovered all the affected data.

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

- On day 114 (Apr 23), the 166th momentum dump was executed successfully at 1230z, which imparted an estimated delta V of 0.047 m/sec. This was the 85th momentum dump conducted without gyro use. After thruster operations completed, there was a 0.4 degree of roll angle error. Fine pointing stabilized 3.3 minutes after completion of the momentum dump.
- As of day 119 (Apr 28), 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.