

STEREO MOC Status Report

Time Period: 2022:353 (Dec 19) - 2022:359 (Dec 25)

STEREO Ahead (STA) Status:

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

- On day 358 (Dec 24), DSS-35 conducted a successful Project Interface Test. The purpose was to validate tracking and telemetry data delivery for a new version of the Data Capture & Delivery (DCD) software (v9.1). The MOC successfully received monitor data, real-time telemetry, and sent four commands.

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

- On day 353 (Dec 19), the 152nd momentum dump was executed successfully at 1830z, which imparted an estimated delta V of 0.057 m/sec. This was the 71st momentum dump conducted without gyro use. After thruster operations completed, there was a 1.1 degree of roll angle error. Fine pointing stabilized 2.9 minutes after completion of the momentum dump.
- As of day 359 (Dec 25), 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 6.4 Gbits during this week.