

STEREO MOC Status Report

Time Period: 2021:340 (Dec 6) - 2021:346 (Dec 12)

STEREO Ahead (STA) Status:

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

- On day 342 (Dec 8), during the DSS-14 support, turbo decoder lock was lost briefly at 0436z. This anomaly resulted in the loss of one frame of SSR data.
- On day 344 (Dec 10), during the DSS-14 support, turbo decoder lock was lost briefly at 0430z and again at 0445z. This anomaly resulted in the loss of six frames of SSR data.
- On day 343 (Dec 9), three MOC planning/assessment machines and Raid were upgraded to the x86 architecture and transitioned to operations. The machine names/functions are dumbledore (Scheduler event planning and DMZ file server), cho (STEREO Data Server and Instrument command interface), and hermione (backup server for cho/dumbledore). The MOPs team used the new machines to create the assessment data products successfully since Friday (Dec 10). The STEREO Science Center (SSC) has verified the delivery of data products to their server. The instrument POCs (IMPACT, SECCHI, & SWAVES) have sent commands successfully to the MOC. The PLASTIC POC will test their command interface to the MOC on Thursday (Dec 16).

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

- On day 344 (Dec 10), the 60th SECCHI stepped calibration was executed at 1345z for midpoint in the Ahead orbit. This was the 29th SECCHI stepped calibration roll conducted without gyro use.
- As of day 346 (Dec 12), 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 6.7 Gbits during this week.