

STEREO MOC Status Report

Time Period: 2024:099 (Apr 8) - 2024:105 (Apr 14)

STEREO Ahead (STA) Status:

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

- On day 099 (Apr 8), during the DSS-36 support, one VC6 and one VC7 IDR files were not generated for 19:02:00z to 19:20:00z. This anomaly resulted in the loss of 13 minutes of SSR data. The MOPs team repositioned the SSR pointers during the subsequent DSS-55 track and recovered all the affected data. DSN is currently investigating the File Delivery Service (FDS) anomaly. See DR #N113066 for more information.
- On day 100 (Apr 9), during the DSS-35 support, the VC6 IDR file was not generated for 15:57:00z to 16:27:00z. This anomaly resulted in the loss of 30 minutes of SSR data. The MOPs team repositioned the SSR pointers during the track and recovered all the affected data. On day 101, DSN identified and corrected a limit problem with the IDR file ID numbers in the File Delivery Service (FDS) software. See DR #N113067 for more information.
- On day 104 (Apr 13), during the DSS-36 support, turbo decoder lock was lost briefly at 1636z. This anomaly resulted in the loss of one frame of SSR data. The MOPs team repositioned the SSR pointers during the support 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 105 (Apr 14), the second week of the SECCHI high downlink campaign (HDC) was completed. During the HDC, SECCHI will collect high cadence COR-2 & HI-1 images for the Solar Eclipse that occurred on Apr 8. Extra DSN track coverage has been planned for the HDC (Apr 1 - 15, 2024) to increase the daily science data return to 10-11 Gbits per day (normally 5-6 Gbits).
- As of day 105 (Apr 14), 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 8.8 Gbits during this week.