

STEREO MOC Status Report
Time Period: 2020:041 - 2020:047

STEREO Ahead (STA) Status:

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

- On day 045, the entire DSS-14 track was lost because the antenna was declared red due to a water leak affecting the cooling of the equipment. This anomaly resulted in the loss of 3.6 hours of real-time telemetry, command and tracking data, as well as 24 hours of SECCHI SSR data. SSR pointers were repositioned on the subsequent support for all in-situ instruments and all missing data was recovered. The SECCHI SSR pointer was not repositioned because ~34 hours had elapse since the last contact and MOps could not predict how much data SECCHI had recorded. For more information, see DR #G120889.

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

- On day 042, the 52nd SECCHI stepped calibration was executed at 1200z for midpoint in the Ahead orbit. This was the 21st SECCHI stepped calibration roll conducted without gyro use. This calibration was a redo in response to a new particle on the COR1 objective, which occurred a few hours after the previous calibration on Jan 14.
- On day 043, the PLASTIC team continued to step the Post Acceleration (PAC) power supply high voltage. All PLASTIC systems are behaving well at this time.
- On day 046, the PLASTIC team discovered the solar wind data stopped updating and the digital-to-analog converter (DAC) settings reset to zero. The team believes that a transient event may have occurred on the instrument, which disrupted the DAC board. The team will be commanding on day 048 to investigate this incident.
- The average daily science data return for Ahead was 6.3 Gbits during this week.