

STEREO MOC Status Report
Time Period: 2021:053 - 2021:059

STEREO Ahead (STA) Status:

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

- On day 058, during the DSS-43 support, the transmitter tripped off at 0838z. This anomaly resulted in the loss of 1384 frames of SSR data during the downlink receiver transition from 2-way to 1-way mode. The MOPs team decided to remain downlink only for the remaining 1.8 hours of the support to avoid any further data loss by re-sweeping the uplink. The MOPs team repositioned the SSR pointers on the subsequent DSS-14 support and recovered all the affected data. See DR #C115497 for more information.

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

- On day 055, the star tracker reset at 03:15:46z. Fault protection immediately promoted the star tracker back to AAD mode at 03:16:11z. The diagnostic data indicated that the reset cause was due to a CPU Error, same as previous resets. The anomaly resulted in a momentary loss of fine pointing with a 0.2 degree of roll angle error. This was the eighth star tracker reset on the Ahead observatory.
- As of day 059, 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 6.4 Gbits during this week.