

STEREO MOC Status Report  
Time Period: 2020:307 - 2020:313

STEREO Ahead (STA) Status:

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

- On day 307, during the DSS-34 support, the command modulation toggled offline for four seconds and aborted the command system bind at 0431z. This anomaly had no impact on operations and command bind was reestablished at 0539z. See DR #C115284 for more information.
- On day 307, during the DSS-14 support, turbo decoder lock was lost briefly at 2356z. This anomaly resulted in the loss of one frame of SSR data.
- On day 311, during the DSS-63 support, the uplink sweep was five minutes late at 1310z. Later, the transmitter tripped offline and aborted the command system bind at 1320z, due to a DC over current interlock. The station declared the transmitter red after three failed attempts to restart the uplink. This anomaly resulted in the loss of ten minutes of SSR data between 1326z and 1336z, when the receiver transitioned from two-way to one-way downlink mode and during the subsequent uplink resweep activity. See DR #M112796 for more information.
- On day 312, during the DSS-74 (ESA New Norcia) support, ESA engineers corrected the downlink glitch problem. The problem was caused by the latest M&C software change, which implemented a new approach to acquiring the spacecraft downlink signal when transitioning from 1-way to 2-way mode. ESA disabled the new feature for STEREO to correct the problem.

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

- As of day 313, 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.