STEREO MOC Status Report
Time Period: 2020:363 – 2021:003

STEREO Ahead (STA) Status:

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

   - On day 365, the DSS-55 support was deleted to accommodate the JUNO mission with downlinking important near-Jupiter data. DSS-54 was RED and down for maintenance, therefore, JUNO would loss the science data without moving the track over to DSS-55. The SSR was emptied as previously planned, thus, the schedule change had no impact.

   - On day 366, the MOPs team discovered a problem with the MOC poc_q_mgmt software in the RIONet while checking the SWAVES command POC queue. The commands dated for the year 2021, were moved to the expired directory. The software was coded with a default timeout date of 2020-365-23:59:59 for commands that do not have a timeout value in the command header. Therefore, the software moved the 2021 commands, without timeout dates included, to the expired directory. The MOC ground software engineer located the date in the code and corrected the problem. The SWAVES commands were entered into the POC queue again and the software worked correctly.

   - On day 001, during the DSS-35 support, initial acquisition of telemetry was 7.5 minutes late at 0907z, due to an automation software problem. This anomaly resulted in the loss of 5.5 minutes of SSR data. See DR #C115385 for more information.

   - On day 002, during the DSS-34 support, turbo decoder lock was lost briefly at 0552z and again at 0653z. This anomaly resulted in the loss of six frames of SSR data.

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

   - As of day 003, 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 6.5 Gbits during this week.