

June 14 - 20, 2002

The Terra spacecraft is in nominal mode. All instruments are in Science Mode.

The 7-day demo of two MODIS data dumps per orbit in support of NPP planned for Thursday, June 13, at 9 a.m. EDT through Thursday, June 20, at 9 a.m. EDT was completed. The test was successful despite the fact that it overlapped the STS-111 mission, presenting a challenging scenario for acquiring the required TDRSS time, impacting the ability of Terra to obtain two MODIS dumps per orbit for some time periods.

A Drag Make-up Maneuver was successfully completed on Wednesday, June 19. The maneuver was initiated approximately 20 seconds late as a result of a command that failed to execute out of the Absolute Time Command (ATC) table, requiring real-time intervention by the Terra Flight Operations Team (FOT) to execute all commands. The problem was diagnosed to a ground software time conversion problem between seconds and the 1.024-second interval gap required between specific types of commands. The system did not convert properly for these commands. Now that the potential problem has been recognized, it can be avoided for the short-term future by establishing a constraint requiring 2 seconds between all such commands.

For the longer term, a software patch will ultimately fix and eliminate this problem.

The MODIS formatter has been experiencing a significant growth in the number of resets during the past week. The impact of this increase is periodic scan line time-outs. A team has been assembled to plan the switch to the B-side (redundant) formatter. This team will work the cross-strapping around the previous B-side power supply failure last year.

TERRA PLANS:

 A MODIS calibration lunar roll maneuver is scheduled for June 29.

 The sixth and final Inclination Adjust Maneuver is tentatively scheduled for July 17.

