Day of Year

Day 126 (5/6/19)

Status Summary:

All spacecraft subsystems are green; all payloads are nominal. OCAMS, OTES, and OVIRS are powered on. All expected data have been received on the ground, with the exception of missed OpNavs described below.

A TAGCAMS safing event occurred over the weekend. TAGCAMS missed three aliveness checks and therefore powered itself off, causing us to miss the later OpNavs for DOY 124 (Saturday) and earlier OpNavs for DOY 125 (Sunday). SPOC received the alarm and notified NAV, MSA, and Project. The MSA paging system was down because it had not been restarted properly. MSA and GNC analyzed the data and deemed the camera safe to recover. It was powered on and took a test image. Nominal performance was confirmed, and recovery was achieved in time to collect criticality-3 OpNavs. The root cause has not been determined yet, but it may be related to a high frequency of solar flare events. More space weather of this type is expected to come toward OSIRIS-REx on 8 May (DOY 128).

The DPI noted a data estimation disconnect between the SPOC and the Mission Planning Workbook, to be resolved offline.

Looking ahead: M20D will execute tomorrow (Tuesday 7 May, DOY 127). The 12:30 PM Equatorial Station observation will take place Thursday (9 May DOY 129), followed by M21D and the Thermal Emission Phase Function Saturday (11 May, DOY 131). We will continue our OpNav and particle monitoring cadence throughout the week, with criticality-3 OpNavs expected Wednesday to inform the late-update decision for the 12:30 PM Equatorial Station.

Day 128 (5/8/19)

Status Summary:

All spacecraft subsystems and payloads are green. OCAMS, OTES, and OVIRS are powered on. OD135 is onboard the spacecraft.

All expected data, including today's criticality-3 OpNavs, have been received on the ground. We had a short pass today but at the higher data rate.

Looking ahead: The 12:30 PM Equatorial Station observation will take place tomorrow (Thursday 9 May, DOY 129). Data from this activity are expected to begin coming down the next day (Friday). M21D and Thermal Emission Phase Function observations will follow on Saturday (11 May, DOY 131).

Day 130 (5/10/19)

Status Summary:

All spacecraft subsystems and payloads are green. OCAMS, OTES, and OVIRS are powered on (OLA was turned on for yesterday's observations and is now off). OD137 is onboard the spacecraft.

Some data from yesterday's 12:30 PM Equatorial Station observations have been received on the ground. M21D will shorten tomorrow's downlink window, but we still expect to receive the rest of those data by the end of that pass. No time shift was required for the 12:30 PM Equatorial Stations based on OD137.

A new ISA was opened yesterday for the MSA paging system not sending out a page when TAGCAMS safed over the weekend.

The PI announced that the mission has formally approved NFT to the surface as the baseline technique for TAG. Lidar will be a back-up technique; planned lidar activities will still take place but not on a special early-delivery timeline.

Vicky Hamilton expects to be able to report to the PI tomorrow on the quality of the OTES 12:30 PM data.

Looking ahead: Zig-zag scans with OTES, OVIRS, and OCAMS for the Thermal Emission Phase Function will execute tomorrow (Saturday 11 May, DOY 131). We will continue our current OpNav and particle monitoring cadence over the weekend and into next week. Next Thursday (16 May, DOY 136) will be the 10:00 AM Equatorial Station. There will be no OTES deep-space calibrations outside of the science window for this activity. OVIRS will be operating in SP=2 mode.

Upcoming meetings: Next Thursday's Science Team meeting will be a Science Monthly. The Science Weekly meeting on 30 May is canceled owing to the Site Selection Board meeting.