

Day of the Year

Day 247 (09/04/19)

Status Summary:

All spacecraft subsystems and payloads are nominal. All science payloads are powered off.

A ground-based transmitter outage on DOY 242 (Friday 30 August) caused gaps in data from DOY 240–241, which have been filled via retransmit. We will not attempt to recover 12 images from DOY 242 that were transmitted but not received; the science team has confirmed low impact of these lost images.

We continue to collect OpNav and particle monitoring images daily with TAGCAMS. We will end today's pass with particle images still on board in the OCAMS partition, but we expect to clear the partitions by the end of tomorrow's pass.

A TAGCAMS alarm related to a failed aliveness check was received on Monday (2 September, DOY 245), but it was resolved by a scheduled reset with no impact on imaging. ISA 11196 has been opened.

Looking ahead: We will proceed throughout this week with the daily cadence of 9 OpNavs and 156 particle monitoring images, except on days when downlink is prohibitive, for which we will use an ATF with ride-along particle imaging every two hours (concurrent with OpNavs). Two passes later this week (DOY 250 and 251) will be at the 600-kbps rate, the frequency of which will increase for OREX in the coming weeks. There will be a Science Weekly meeting tomorrow (Thursday 5 September, DOY 248).

Day 249 (09/06/19)

Status Summary:

All spacecraft subsystems and payloads are nominal. All science payloads are powered off. OD178 is onboard. MAVEN entered safe mode yesterday; there are no impacts to OREX as of yet.

All data expected for Wednesday and Thursday have come down. We have nearly cleared the partitions, and we expect the remainder of today's particle monitoring images to come down during tomorrow's pass. We have long passes scheduled for the weekend; however, they are at the lower data rate. We expect to clear the partitions by mid-next week.

Unexpected red alarms were received today related to the attitude control performance monitor. The GNC team attributes the issue to an incorrect change in reference attitude at the ephemeris transition from OD177 to OD178. The spacecraft is operating nominally. ISA 11263 has been opened.

Looking ahead: This weekend, we will collect particle monitoring images at the high cadence (every ~12.5 minutes). Next week, we will continue with both the high-cadence and OpNav-ride-along particle monitoring ATFs (dependent on downlink) that we executed this week.

Upcoming meeting cadence: Daily downlink tag-ups will continue on the Monday/Wednesday/Friday schedule until 23 September, after which we will increase to a Monday-through-Friday cadence leading into the reflly of Baseball Diamond Flyby 2 and Recon A.