

# Day of Year

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## **Day 266 (9/23/19)**

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### Status Summary:

All spacecraft subsystems and payloads are nominal. OVIRS and OCAMS are powered on. OD181 is onboard. Yesterday the spacecraft performed M30D to leave frozen orbit and transition to the target for this week's Baseball Diamond Flyby 2 (BBD2) re-fly.

An issue with the receiver of DSN station 54 occurred at the beginning of today's pass, delaying our ability to lock. The spacecraft continued to transmit during that time; a same-pass retransmit was initiated to recover the data. The data on the ground will be inspected for any gaps in the housekeeping.

All data from this weekend are on the ground. We expect to empty the partitions again tomorrow.

Bashar Rizk showed slides demonstrating that OCAMS is nominal after being powered back on. Also shown were the first and last images collected yesterday, illustrating the difference in trajectory due to M30D. A histogram of the last image, which includes a bright area, shows a broad dynamic range being captured.

Looking ahead: Tomorrow, the spacecraft will execute M31D to put it on track for the BBD2 re-fly, taking place Thursday (26 September, DOY 269). The re-fly is expected to involve a time shift. Before and after this activity, we will be collecting OpNavs (including coincident MapCam images) with ride-along particle monitoring. Later this week, M32D will put the spacecraft on track for the first Recon A high flyby (Sandpiper).

Tomorrow's SOPG meeting is canceled. Reminder: Downlink tag-ups will increase to a M-F cadence starting Wednesday (24 September, DOY 268).

## **Day 268 (9/25/19)**

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Status Summary:

All spacecraft subsystems and payloads are nominal. OVIRS and OCAMS are powered on. OD182 is onboard. M31D executed nominally yesterday.

We have just completed our last downlink at the 916-kbps rate for the next several months; we will be at the 600-kbps rate going forward. Criticality-2 OpNavs came down as expected today. The partitions are empty. We expect to empty them again tomorrow (before the re-fly of Baseball Diamond Flyby 2). Josh Nelson will follow up with OCAMS/IPWG with an estimate of when all of the Baseball Diamond Flyby 2 re-fly data will be down.

Looking ahead: Tomorrow (Thursday 26 September, DOY 269), the spacecraft will execute the re-fly of Baseball Diamond Flyby 2. This activity is expected to involve a time shift. Before and after this activity, we will continue to collect OpNavs (including coincident MapCam images) with ride-along particle monitoring. Later this week, M32D will put the spacecraft on track for the first Recon A high flyby (Sandpiper, EX07).

Reminder: Downlink tag-ups are now on a M–F cadence.

## **Day 269 (9/26/19)**

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Status Summary:

All spacecraft subsystems and payloads are nominal. OVIRS, OTES, and OCAMS are powered on. Today's short pass is complete; the partitions are empty.

The spacecraft is currently executing the re-fly of Baseball Diamond Flyby 2 (BBD2). A time shift (~16 minutes earlier) was uplinked for this activity. The OCAMS data are expected to be fully down by the end of the pass on Tuesday (1 October, DOY 274), or possibly the day before. The OVIRS and OTES data will be down by the end of the pass on Wednesday (2 October, DOY 275).

Looking ahead: Following the re-fly of BBD2, we will resume collecting OpNavs with ride-along particle monitoring. Later this week, M32D will put the spacecraft on track for the first Recon A high flyby (Sandpiper, EX07).

Reminder: Downlink tag-ups are now on a M–F cadence.

## **Day 270 (9/27/19)**

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#### Status Summary:

All spacecraft subsystems and payloads are nominal. OVIRS, OTES, and OCAMS are powered on. OD183 is onboard.

About one-third (300+ images) of the OCAMS data from the re-fly of Baseball Diamond Flyby 2 (BBD2) have been received on the ground. The OCAMS partition is about 45% full. Bashar Rizk noted that the images look good so far; he will report out further on Monday. OVIRS and OTES data from the BBD2 re-fly remain onboard; they will be downlinked once all of the OCAMS images are down. All data are expected to be down by Wednesday 2 October (DOY 275).

Amy Simon reported that the updated bad pixel maps for OVIRS are operating as expected. OVIRS collected data during the BBD2 re-fly, which will come down early/mid next week.

Looking ahead: Through the weekend, OpNavs with ride-along particle monitoring. M32D will put the spacecraft on track for the first Recon A high flyby (Sandpiper, EX07), taking place next week on DOY 278, Saturday 5 October. OCAMS data from this activity are expected to fully downlinked by Wednesday 9 October (DOY 282).