Science Objective Summary and Science Weekly Debrief

Science Objective Summary

DOY 307–314: The nominal scenario would have been to stow, with SamCam and StowCam imaging on DOY 307. However, stow was accelerated to WOY 44 due to mass being lost from the TAGSAM head. No science activities this week.

Daily downlink slides for Day 307 (11/02/20). Click to enlarge.

All subsystems and instruments are nominal following TAG and stow. All payloads are powered off. The remaining ISAs in the system are expected to close out soon. All data from TAG are down. We do not have daily HGA passes this week until Friday, at which point we will only be bringing down spacecraft engineering data. We are not collecting any science observations or OpNavs. [See the slides for a side-by-side of the first image of Bennu (PolyCam, 17 Aug 2018) and the last image of Bennu (MapCam OpNav, 23 Oct 2020) collected by OSIRIS-REx.]

Looking ahead: Beginning WOY 48, we will be switching from weekly to monthly background sequences.

For the rest of 2020 and early 2021, our focus will be on final instrument checkouts and calibrations needed to understand Bennu data and assess instrument health for a possible extended mission. The earliest of these activities (15 to 17 November) include a TAGCAMS lens contamination checkout, spacecraft post-TAG checkout, and OCAMS and OTES post-TAG health checkouts. See slide 6 for details and longer outlook including OCAMS Vega and OVIRS solar calibrations. Asteroid departure trades are in work for a departure between January and March 2021.

This is the last daily downlink tag-up. There will be a Science Weekly this Thursday (5 November) to continue discussing TAG and stow data.