

Science Objective Summary and Science Weekly Debrief

DOY 006–013: NavCam 1 will collect images for particle monitoring every 2 hours (riding along with OpNavs).

Science Weekly Debrief

For slides and the WebEx recording on ODOCS, click [here <https://soedms.as.arizona.edu/Classic/Folders/Folders.aspx>] then follow the path: Folders \ Documents and Drawings \ OSIRIS-REx Bennu Proximity Operations \ Science Status \ Science Weekly \ 2020-01-09.

Science Team Meeting 17 – Mike Nolan

STM 17 will take place from Tuesday April 7 to Thursday April 9 in Tucson, with splinters on the preceding Monday (contact Mike Nolan to set up a splinter). The theme will be plans for archiving data and tools in the PDS. Recon data will also be discussed.

Working group & instrument team updates

- AltWG – Mikes Daly and Nolan

The OLA shape model v16 is ready for science use. It is not the final-final OLA shape product, but no further updates are expected for a couple of months. It provides global coverage at 20 cm GSD and is smaller than v42 by ~30 cm. AltWG continues to work on shape and NFT products to support TAG, as well as a paper on the OLA shape in preparation for the Science special issue.

- IPWG – Dani DellaGiustina

Dani is leading the work on a global high-resolution color mapping paper in preparation for the Science special issue. If you are interested in participating in this paper and are not yet looped in, contact Dani. A recent result is that color appears to be linked to hydration state.

The Bennett et al. global basemap paper is back from Icarus with minor revisions requested.

- SAWG – Vicky Hamilton

Two papers are underway on the detection, distribution, and composition of carbon-bearing materials on Bennu's surface, respectively led by Amy Simon and Hannah Kaplan. The content of these papers is evolving owing to the retirement of the PI's paper from the Science special issue; some parts of that paper will be subsumed into the two SAWG manuscripts, which may join the special issue.

- TAWG – Josh Emery

The Rozitis et al. paper for the particle special issue is back from JGR Planets with minor revisions requested.

- AWG – Carl Hergenrother

The Hergenrother et al. paper on the photometry of detected particles from perihelion to aphelion is expected to be submitted to JGR Planets tomorrow. After that, all particle papers will have been submitted. Six of 12 papers are back from review.

- RSWG – Dan Scheeres

The McMahon- and Scheeres-led particle papers are back from JGR Planets with minor revisions requested. RSWG is also working on the gravity field synthesis paper, which will be included in the Science special issue if the timing is feasible. The JPL particle field is now in hand; RSWG is waiting on new gravity fields to be produced by FDS.

- OCAMS – Bashar Rizk

OCAMS and the SPOC received permission from project management to increase the number of allowed motor steps on the MapCam filter wheel from 3.4 to 5 million steps. Because of the increased use of this mechanism anticipated in 2020, the 3.4 million limit would likely have been exceeded by late February.

Publications status – Cat Wolner

Forty-two abstracts were approved by Sci Exec for submission to LPSC 2020. The next conference with coordinated internal review/deadlines will be the JpGU-AGU joint meeting in late May in Chiba, Japan; deadlines will be sent out in the weekly publications update email (new starting this year).

Upcoming meetings

Next week's meeting (Thursday 16 January) will be a Science Monthly.