

Science Objective Summary

Full Rotation Phase Function observation 2

- The second of two Full Rotation Phase Function observations with MapCam will occur on DOY 289. Measurements will be in four distinct wavelength regions that can be compared with observations of recognized ECAS standard stars in the b, v, w and x ECAS filters. A total of 755 images will be taken.

Daily Phase Function

- On each day from DOY 290 through 295, MapCam will acquire pan, b, v, w, and x images; in addition, dark exposures will be obtained both before and after phase function observations are obtained for each exposure. In total, 69 images will be taken per date.

The goal of these two activities is to produce four phase functions of Bennu. The observations provide information on Bennu's albedo and the way light is reflected from its surface at different angles. In combination with Light Curve observations, they contribute to fulfilling the requirement of rotationally resolved and non-rotationally resolved photometry.