

Science Objective Summary

PolyCam Shape Model

- PolyCam will image Bennu every 10° to 15° of rotation.
- These observations contribute to the production of a 75-cm center-of-figure shape model with greater than 1-million-vector resolution. They will help in determining Bennu's coordinate system, rotation period, rotation pole, and wobble.

Natural Satellite Search

- NavCam will search for natural satellites from DOY 331 to 337.
- These observations are needed to assess safety.
- If satellites are detected, the asteroid's gravity field can be mapped in detail before arrival, and the dynamical history of Bennu can be better understood.