

## An Interplay between Large Boulders and Impact Craters on Asteroid Bennu



Craters on Bennu show that the topography of the impact site meaningfully affects crater formation.

- Bennu's surface is covered by boulders and peppered with impact craters. A new study correlates trends in the depthdiameter ratios of impact craters with the geometry of boulders.
- Large boulders on Bennu interfere with crater formation. The amount of interference appears to depend on how far the base of the boulder lies above the surface. This has implications for planetary-scale impact tests, such as DART.

(top) Digital terrain models made from OSIRIS-REx Laser Altimeter data. The bottoms of some boulders hover close to the surface (left), whereas others jut high above the craters (right).

(bottom) Images of the craters taken by a camera on OSIRIS-REx, and a terrain model model colored by elevation.

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