

## **Earth to Lend Helping Hand to Comet Craft**

June 25 2010



NASA's Deep Impact/EPOXI spacecraft, illustrated in this artist's concept, will fly past Earth on June 27, 2010. The spacecraft has an appointment with comet Hartley 2 this fall. Image credit: NASA/JPL-Caltech

(PhysOrg.com) -- NASA's Deep Impact/EPOXI spacecraft will fly past Earth this Sunday (June 27).

Mission navigators have tailored this trajectory so the spacecraft can "hitch a ride" on Earth's gravity field, which will help propel the mission toward its appointment with comet Hartley 2 this fall. At time of closest approach to Earth, the spacecraft will be about 30,400 kilometers (18,900 miles) above the South Atlantic.

"Earth is a great place to pick up orbital velocity," said Tim Larson, the EPOXI project manager from NASA's Jet Propulsion Laboratory in Pasadena, Calif. "This <u>flyby</u> will give our spacecraft a 1.5-kilometer-persecond [3,470 mph] boost, setting us up to get up close and personal with <u>comet</u> Hartley 2."



EPOXI is an extended mission of the Deep Impact spacecraft. Its name is derived from its two tasked science investigations -- the <u>Deep Impact</u> Extended Investigation (DIXI) and the Extrasolar Planet Observation and Characterization (EPOCh).

On Nov. 4, 2010, the mission will conduct an extended flyby of Hartley 2 using all three of the spacecraft's instruments (two telescopes with digital color cameras and an infrared spectrometer).

**More information:** For information about EPOXI, visit <a href="https://www.nasa.gov/epoxi">www.nasa.gov/epoxi</a>

## Provided by JPL/NASA

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