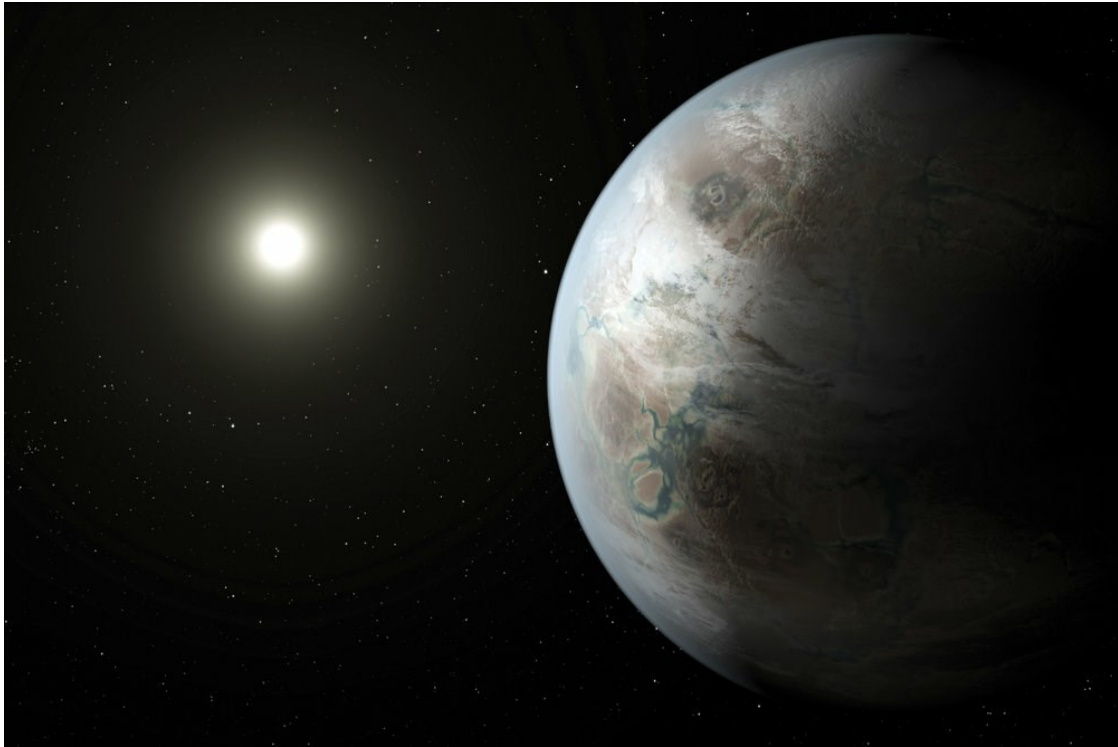




Earth's Cousin Found

DISCOVERY ZONE, ASTRONOMY, RESEARCH



An artist's concept of the newly discovered planet. Image courtesy of NASA Ames/JPL-Caltech/T. Pyle

It's a good deal bigger and 1,400 light years away, but the newly discovered planet Kepler-452b is close enough to Earth in other ways that astronomers are calling it Earth's long lost relative. Found by a team including UT Austin astronomers Bill Cochran and Michael Endl, Kepler-452b is the first planet orbiting a star like our Sun and within the "goldilocks" zone, meaning it's not too hot and not too cold for liquid water to pool on the surface, potentially forming life.

A planet had been discovered earlier in a similarly habitable zone around a red dwarf, but Kepler-452b is the first Earth-like planet to be found revolving around a star that resembles the Sun. A dozen smaller candidates for habitable-zone planets, many around Sun-like stars, were also found by the research team, making the discoveries announced this summer a milestone in the journey to understand our place in the cosmos.

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"Kepler has recently shown that virtually all of the stars that we see in the sky probably host planetary systems," Cochran says. "Now we are discovering that a significant number of those systems are very much like our own and may have the capability of being habitable."

Kepler-452b, in the constellation Cygnus, is bigger and older than Earth: it's 60 percent wider than our planet and about 6 billion years old. The planet takes 385 days to orbit around its own star, which itself is 1.5 billion years older than our Sun.

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