

# Which planets have humans visited

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This is a list of all spacecraft landings on other planets and bodies in the Solar System, including soft landings and both intended and unintended hard impacts. The list includes orbiters that were intentionally crashed, but not orbiters which later crashed in an unplanned manner due to orbital decay.

Jupiter is a gas giant with a very large atmospheric pressure and internal temperature and thus there is no known hard surface on which to "land". All missions listed here are impacts on Jupiter.

Only three of the missions to the outer planets have been orbiters: Galileo orbited Jupiter for eight years, while Cassini orbited Saturn for thirteen years. Juno has been orbiting Jupiter since 2016.

New Horizons, although eventually targeting Pluto, used Jupiter for a gravity assist and had an extensive almost half year observation campaign of Jupiter and its moons (hence it is counted in the eight).

Four spacecraft have visited Saturn; Pioneer 11, Voyager 1 and Voyager 2 made flybys, while Cassini-Huygens entered orbit, and deployed a probe into the atmosphere of Titan.

Only our two nearest neighbours Venus and Mars have been landed on. Landing on another planet is technically challenging and many attempted landings have failed. Mars is the most explored of the planets.

Mercury could be landed on but the speeds involved and the proximity to the Sun are challenging. The Messenger probe orbited Mercury and then crashed into its surface which doesn't really count as a landing.

Ever since humanity launched the first satellite into Earth orbit in the 1950s, we have sent a multitude of spacecraft to the other worlds in our solar system. Although humans themselves have only ever set foot on the Earth and its moon, we have successfully sent robotic spacecraft to every planet in our solar system, as well as asteroids, comets, and dwarf planets. We have sent multiple missions to some worlds, and others have only ever been visited a small number of times. Which planets have we visited the most?

Although Mars is difficult to launch missions to and land on the surface, the other rocky worlds are even more difficult. Mercury is so close to the sun that any missions are at risk of falling towards the sun, and to date, humanity has not landed a spacecraft on the surface of Mercury. In fact, there have only ever been two missions to Mercury, with a third spacecraft currently en route.

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Web: <https://sumthingtasty.co.za/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

