

What is the Juno Probe?

June 28, 2024 • vajiramandravi.com



About Juno Probe:

- JUNO is an acronym for **Jupiter Near-Polar Orbiter**.
- It is a **NASA spacecraft** designed to **orbit the planet Jupiter**.
- Juno was launched by an Atlas V rocket from Cape Canaveral, Florida, on August 5, 2011.
- The Juno spacecraft initially embarked on a 5-year journey to the largest planet in our solar system, Jupiter.
- **Main Goal: Learn** more **about Jupiter's origins** and how the planet has changed.
- Since it arrived at Jupiter in 2016, it has been **probing beneath the dense, forbidding clouds encircling the giant planet** – the **first orbiter to peer so closely**.
- Juno orbits Jupiter every 11 days in a highly elliptical orbit (4,400 by 2,700,000 km [2,700 by 1,700,000 miles]) over the planet's poles.
- It is **solar-powered**.
- Though Juno's **primary mission wrapped in July 2021**, it's been granted an **extended mission** that's expected to end in 2025.

- During the extended mission, Juno is exploring even more of the Jupiter system, including some of the planet's most intriguing moons: Ganymede, Europa, and Io. Juno will also investigate Jupiter's atmosphere and rings in greater detail.
-

Q1: What are lava lakes?

Lava lakes are lakes of molten or solidified lava in volcanic craters or depressions. They may form when a vent or crater becomes partially filled with molten lava. Most lava lakes consist of basaltic lavas.

Source: [NASA's Juno probe gets a close-up look at lava lakes on Jupiter's moon Io](#)

Source: <https://vajiramandravi.com/current-affairs/what-is-the-juno-probe/>

© Vajiram & Ravi. For personal use only.