

Title: Jupiter 3 8 billion years ago

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When did Jupiter become a planet?

Their research, published in Nature Astronomy, suggests that just 3.8 million years after the solar system began forming, Jupiter was at its largest. This was during a time when dust in space had just started clumping together to form solid objects, the first steps in building planets.

How did Jupiter's early life tell us about our Solar System?

Using the orbits of two tiny inner moons, scientists have reverse-engineered a snapshot of Jupiter's turbulent youth, sidestepping typical uncertainties and adding vivid detail to our cosmic origin story. Jupiter's early life holds powerful clues about how our solar system came to be.

Was Jupiter always the planet we know today?

Jupiter wasn't always the planet we know today--it was once twice as big, had a magnetic field 50 times stronger, and its early might shaped the very architecture of our solar system. Using the orbits of two tiny inner moons, scientists have reverse-engineered a snapshot of Jupiter's turbulent youth.

How big was Jupiter in the past?

Jupiter was massive. We thought that Jupiter was smaller in the past, but it was actually almost twice as large as today. Jupiter's Great Red Spot was much smaller, almost invisible during the 3.8 billion years ago era. Community content is available under CC-BY-SA unless otherwise noted.

To understand Jupiter's role in shaping the solar system, we must return to the very beginning--about 4.6 billion years ago. At that time, the sun was newly ignited, and the ...

Jupiter's early life holds important clues about the formation of the solar system. Known as the "architect" of the planets, Jupiter's immense gravity helped shape the orbits of its neighbors ...

Learn how Jupiter looked 3.8 billion years ago, when it was almost twice as large as today and its Great Red Spot was tiny. This wiki page is a fan ...

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Jupiter 3 8 billion years ago

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Jupiter's early giant size and insanely powerful magnetic field reveal surprising clues about how our solar system was shaped billions of years ago.

New research pins down Jupiter's size, spin, and magnetic state during the solar system's formative years, providing vital clues to planetary formation.

Based on their study of two of the moons of Jupiter, the scientists have found that, just 3.8 million years after the first solid materials formed in the Solar System, Jupiter was 2 to 2.5 times ...

Based on their calculations, researchers believe early Jupiter was 2 to 2.5 times larger than it is today with a much more powerful magnetic field.

Given the planet's large proportion of hydrogen and its huge mass, it has been traditional to assume that Jupiter formed by condensation from the primordial solar nebula. This hypothesis ...

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