

Solar system million years ago



Overview

Our solar system began as a collapsing cloud of gas and dust over 4.6 billion years ago. Over the next 600 million years, called by geologists the Hadean Era, the sun and the planets were formed, and Earth's oceans were probably created by cometary impacts. 6 billion years ago with the gravitational collapse of a small part of a giant molecular cloud. 1000 BC: Humans start observing the night sky and have discovered Mercury, Venus, Mars, Jupiter and Saturn by now. Comets are very rich in water ice. The . How did the planets, asteroids, comets, and small worlds in our solar system come to be?

When did it all happen?

These are some of the core questions that drive us to explore other worlds. But where did these raw materials come from in the first place?

To answer that, we have to look at where the stuff of which our planet is made came from.

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Formation of Our Solar System

Our Earth formed, along with the Sun and the rest of the Solar System, approximately 4.6 billion years ago, from a cloud of gas and space dust known as a nebula.

A Timeline for Planet Formation

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Solar System Timeline

How did our solar system come to be, and when did key events that led to life on Earth occur?

Timeline of the Solar System

Overview
Past
Future
Event
Timeline
Degenerate
Era
Bibliography/References
Warning: This is the future if humans went extinct now, with only natural influence on the universe. This is a very small chance that Apophis impacts Earth.
2029: There's a very small chance that Apophis impacts Earth.
2036: Again, there is a very small chance that Apophis will impact Earth.
2060: If the current rate of shrinking continues, Jupiter's Great Red Spot would disappear by now. See more on the solar system.fandom Space Math @ NASA [PDF]



A Timeline for Planet Formation - NASA

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[It wasn't just a simple stroll through the galaxy: 14 million years ago](#)

About 14 million years ago, our solar system sailed through a vast ribbon of gas and baby stars in the Milky Way known as the Radcliffe Wave. A new study traces that journey in detail

Formation and evolution of the Solar System

Since the dawn of the Space Age in the 1950s and the discovery of exoplanets in the 1990s, the model has been both challenged and refined to account for new observations. The Solar System has



Timeline of the Solar System

This is a Timeline of the Solar System from birth to death. The font of the writing decides what field it pertains to, as not all of these events are astronomical. 4.52 BYA: The Uranus Impactor collides with

How our solar system was born

Discover how a giant interstellar cloud known as the solar nebula gave birth to our solar system and everything in it.



How Old Is The Solar System? (And How Can We Tell?)



Evolution of Our Solar System

Our solar system began forming in a concentration of interstellar dust and hydrogen gas. The cloud contracted under its own gravity and our proto-Sun formed in the center, surrounded by the swirling

The Solar System condensed out of a vast cloud of gas, seeded with heavier elements by exploding stars, somewhere between 4.5 and 4.6 billion years ago.



Study Traces Our Solar System's Journey Through a

Research shows that the Solar System passed through the Orion star-forming complex about 14 million years ago. The Orion star-forming complex, also known as the Orion molecular

Evolution of Our Solar System

Learn about the formation and evolution of our solar system from a gallery of images and captions. See how planets, moons, asteroids, comets, and other



Solar System Timeline

Learn how the planets, asteroids, comets, and small worlds in our solar system formed and evolved over billions of years. See key events from the Big Bang to

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