

# List of all dwarf planets





## Overview

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Assessment by Grundy et al. Grundy et al. propose that dark, low-density TNOs in the size range of approximately 400–1000 km are transitional between smaller, porous (and thus low-density) bodies and larger, denser, brighter, and geologically differentiated planetary bodies (such as dwarf planets).

The number of in the is unknown. Estimates have run as high as 200 in the and over 10,000 in the region beyond. However, consideration of the surprisingly low densities of many large.

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• • , incl. diameters and albedos measured by Herschel and Spitzer to date, Herschel OT KP "TNOs are Cool: A Survey of the Transneptunian Region" .

Beside directly orbiting the Sun, the qualifying feature of a dwarf planet is that it have "sufficient mass for its self-gravity to overcome .

The assessments of the IAU, Tancredi et al., Brown, and Grundy et al. for some of potential dwarf planets are as follows. For the IAU, the acceptance criteria were for naming purposes; Quaoar was called a dwarf planet in a 2022–2023 IAU annual report. An IAU question.

Though the definition of a dwarf planet is clear, evidence about whether a given trans-Neptunian object is large and malleable enough to be shaped by its own gravitational field is often inconclusive. There are also outstanding questions relating to the interpretation of the IAU criterion in certain instances. Consequently the number of currently conformed TNOs which meet the hydrostatic equilibrium criterion is uncertain.

What are the 5 dwarf planets?

Here's a brief tour of all five: Pluto, Eris, Haumea, Makemake and Ceres. Images of the dwarf planet Pluto taken by NASA's Hubble Space Telescope. (Image credit: NASA, ESA, and M. Buie (Southwest Research Institute)).

Which Solar System bodies are dwarf planets?



But those aren't the only ones. Other solar system bodies that are possibly dwarf planets include Sedna and Quaoar, small worlds far beyond Pluto's orbit, and 2012 VP113, an object that is thought to have one of the most distant orbits found beyond the known edge of our solar system.

How many dwarf planets are there in the Solar System?

The number of dwarf planets in the Solar System is unknown. Estimates have run as high as 200 in the Kuiper belt [ 1 ] and over 10,000 in the region beyond. [ 2 ].

Are there still dwarf planets in the Solar System?

If Grundy et al. [ 3 ] are correct, then very few known bodies in the outer Solar System are likely to have compacted into fully solid bodies, and thus to possibly have become dwarf planets at some point in their past or to still be dwarf planets at present.

Which planets are most likely to be a dwarf planet?

Planetary geologists are therefore particularly interested in them. Astronomers are in general agreement that at least the nine largest candidates are dwarf planets - in rough order of size, Pluto, Eris, Haumea, Makemake, Gonggong, Quaoar, Ceres, Orcus, and Sedna.

Which dwarf planet is located in the inner Solar System?

Ceres is the only dwarf planet located in the inner solar system. Pluto was long considered our solar system's ninth planet. Haumea is one of the fastest rotating large objects in our solar system. Makemake is the second-brightest object in the Kuiper Belt. Eris is one of the largest known dwarf planets in our solar system.



## List of all dwarf planets

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### Solar System Exploration

The solar system has one star, eight planets, five dwarf planets, at least 290 moons, more than 1.3 million asteroids, and about 3,900 comets. Skip to main content Missions Search All NASA Missions A to Z List of Missions Upcoming ...

### Dwarf Planets: Science and Facts About Solar System's

Meet the dwarf planets of our solar system, Pluto Eris, Haumea, Makemake and Ceres. (Image credit: Karl Tate, SPACE contributor) As of 2014, the IAU recognizes ...



### [Our 5 Dwarf Planets , Britannica](#)

M. Buie (Southwest Research Institute)/ESA/NASA There was much outrage and confusion in 2006 when Pluto lost its status as our solar system's ninth planet. But we didn't just lose a planet--we gained five dwarf planets! The term "dwarf ...

### About the Planets

Our solar system has eight planets, and five dwarf planets - all located in an outer spiral arm of the Milky Way galaxy called the Orion Arm. Beyond Neptune, a newer class of smaller worlds called dwarf planets reign, including longtime favorite Pluto. The other dwarf



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### Dwarf planets: all about these controversial almost-planets

Dwarf planets: all about these controversial almost-planets What are dwarf planets, how important are they, and why did Pluto get reclassified as one? Published: Apr 09, 2022 05:05 AM EST John

### Planets in Order From the Sun , Pictures, Facts, and

The order of the planets from the Sun, starting closest and moving outwards: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune. Geophysical classification of planets. Johns Hopkins APL/Mike Yakovlev Categories of ...



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### Interesting Facts about the Dwarf Planets

There are another 6 objects in our solar system that are almost certainly dwarf planets and there may as many as 10,000. Of the dwarf planets only 2 have been visited by space probes, in 2015 NASA's Dawn and New Horizons missions reached Ceres and Pluto respectively.



## Dwarf planet

Overview Population of dwarf planets History of the concept Name Criteria Exploration Similar objects See also

Though the definition of a dwarf planet is clear, evidence about whether a given trans-Neptunian object is large and malleable enough to be shaped by its own gravitational field is often inconclusive. There are also outstanding questions relating to the interpretation of the IAU criterion in certain instances. Consequently the number of currently conformed TNOs which meet the hydrostatic equilibrium criterion is uncertain.



### [The Planets In Order \(Including Dwarf Planets\)](#)

In our Solar System, there are eight planets and five dwarf planets. We take a look at their order from the Sun including the dwarf planets Earth is the third closest planet to the Sun and it's about 150 million kilometers away. The Earth has one moon that we know of, but there are also a few smaller satellites orbiting around it as well!

### [List of possible dwarf planets](#)

The number of dwarf planets in the Solar System is unknown. Estimates have run as high as 200 in the Kuiper belt and over 10,000 in the region beyond. However, The following trans-Neptunian objects have measured diameters at least 600 kilometres (370 mi) to within measurement uncertainties; this was the threshold to be considered a "highly likely" dwarf ...



## Dwarf Planets: Science and Facts About Solar System's

Dwarf planets are worlds too small to be full-fledged planets, but too big to fit in smaller astronomical categories. Pluto, the most famous dwarf planet, lost its planet status in 2006.



### List of minor planets

The following is a list of numbered minor planets in ascending numerical order. With the exception of comets, minor planets are all small bodies in the Solar System, including asteroids, distant objects and dwarf planets. The catalog consists of hundreds of pages



### List of dwarf planets

This is a list of dwarf planets. Ceres Pluto Haumea Makemake Quaoar Eris Sedna Orcus Gonggong Salacia This page lacks major key points like its discovery, naming, formation, or major page elements like an article, images, links, templates or infobox may

### Dwarf Planets: Interesting Facts about the Five Dwarf Planets

Dwarf Planet Facts There a currently five officially classified dwarf planets in our solar system. They are Ceres, Plut, Haumea, Makemake and Eris. Ceres is located inside the asteroid belt between the orbits of Mars and Jupiter, while the other dwarf planets are located in the outer solar system in, or near to, the Kuiper belt..

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### What Is A Dwarf Planet?

For more information, check out NASA's Solar System Overview: Dwarf Planets, the Solar System Exploration Guide on Dwarf Planets, and Mike Brown's Dwarf Planet page. Here is the list of all

### Planets - classification, primary planets, dwarf planets, comparison

Planet classification There are four main categories of classifications when determining the type of celestial body an object is. These classifications are: terrestrial planets (Mercury, Venus, Earth, and Mars), gas giants (Jupiter and Saturn), ice giants (Uranus and Neptune), and dwarf planets (Pluto, Eris, Haumea, and Makemake).

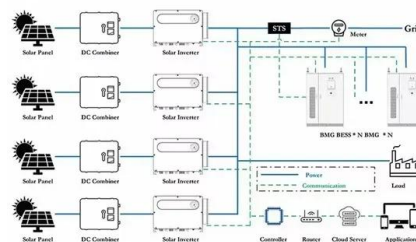


### Meet the Solar System's Dwarf Planets , Space

Although hundreds, or perhaps thousands, more solar system bodies may eventually join the list, the IAU officially recognizes just five dwarf planets at the moment. ...

### Dwarf Planets in Our Solar System

5 Dwarf Planets: The usual list of dwarf planets is Pluto, Eris, Ceres, Haumea, and Makemake. Haumea has two known moons, while Makemake has one. Haumea is not round. Whether or not either Haumea or ...





### [Dwarf Planets in Our Solar System](#)

Dwarf planets. The universe contains unique objects that don't always fit into neat categories like stars, planets and galaxies. Dwarf planets share particular characteristics that have traditionally ...

### [Dwarf Planets , The Schools' Observatory](#)

And they all orbit the Sun. Dwarf planets and other objects that may become dwarf planets  
Credit: Wikipedia The discovery of Eris in 2005 led to a new category of Solar System object, called dwarf planets. Eris is a similar size to Pluto. Astronomers realised



### [Pluto and Dwarf Planet Resources](#)

Explore this page for a curated collection of resources, including activities that can be done at home, as well as videos and animations, images, printable graphics, and 3D models. This resource package is suitable for educators, students, and anyone interested in learning more about dwarf planets!

### **The Nine Planets of The Solar System , Eight Planets Without**

The Nine Planets is an encyclopedic overview with facts and information about mythology and current scientific knowledge of the planets, moons, and other objects in our solar system and beyond. Eris Eris is the same size as Pluto, but three times further from the





### What are dwarf planets?

Dwarf planets Pluto and Ceres were already known; becoming dwarf planets was merely a matter of classification. Eris and several other dwarf planets were discovered or announced in 2005. Ceres is named for the Greco-Roman goddess of grain; her name is the origin of the word cereal.

### Meet the Solar System's five official dwarf planets

The IAU currently recognizes five dwarf planets: Ceres, Pluto, Haumea, Makemake, and Eris. Ceres lies in the main asteroid belt between Mars and Jupiter, while the rest are in the Kuiper Belt. There are almost certainly ...



### Planet Sizes and Locations in Our Solar System

Pluto is the largest dwarf planet in our solar system, just slightly larger than Eris, at number two. Pluto has an equatorial diameter of about 1,477 miles (2,377 kilometers). Pluto is about 1/5th the width of Earth. Pluto orbits the ...



### List of planets , Solar System, Dwarf Planets, Moons

As the term is applied to bodies in Earth's solar system, the International Astronomical Union (IAU) lists eight planets orbiting the Sun. Pluto also was listed as a planet until 2006. This is a list of selected planets. (See also astronomy; infrared astronomy; ; ; .)



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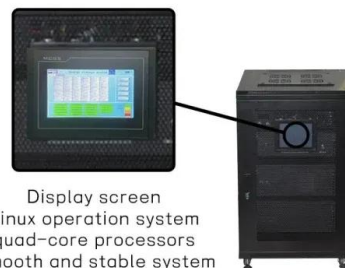


### Pluto

Pluto is a dwarf planet located in a distant region of our solar system beyond Neptune known as the Kuiper Belt. Pluto was long considered our ninth planet, but the International Astronomical Union reclassified Pluto as a dwarf planet in 2006. NASA's New Horizons was the first spacecraft to explore Pluto up close, flying by in 2015.

### Astronomer Mike Brown

The "dwarf planets" are all of those objects which are not one of the eight dominant bodies (Mercury through Neptune) yet still, at least in one way, resemble a planet. In other words, a dwarf planet is something that looks like a planet, but is not a planet.



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### [Dwarf Planets of our Solar System](#)

As with all dwarf planets, it is invisible to the naked eye and was not known to the ancients. Click here for an interesting article on the discovery of Ceres. Ceres has only been visited by 1 spacecraft - Dawn - from March 2015 to October 2018. News: The Dawn



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### Dwarf planet , Definition, Characteristics, & Facts , Britannica

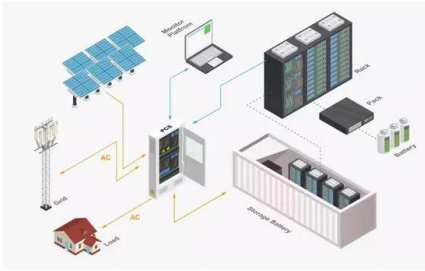
Dwarf planet, body, other than a natural satellite (moon), that orbits the Sun and that is, for practical purposes, smaller than the planet Mercury yet large enough for its ...





### Dwarf Planets in Our Solar System in Order

List of Dwarf Planets in Order Here is a list of dwarf planets in order of their distance from the Sun: Ceres - Distance: About 2.77 AU (Astronomical Units) Pluto - Distance: About 39.5 AU Haumea - Distance: About 43.3 AU Makemake - Distance: About 45.8 AU



### Dwarf planets in our Solar System: How many are there?

Dwarf planets are one of the mysteries of our solar system. The name was given by the IAU (International Astronomical Union) in 2006 to a new class of astronomical objects that inhabit our solar system. The turmoil was caused by Pluto, which was long considered



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