

Dark planet in our solar system





Overview

TrES-2b (also known as Kepler-1b or GSC 03549-02811b) is an extrasolar planet orbiting the star GSC 03549-02811 located 750 light years away from the Solar System. The planet was identified in 2011 as the darkest known exoplanet, reflecting less than 1% of any light that hits it. Reflecting less light than.

TrES-2b was discovered on August 21, 2006 by the (TrES) by detecting the of the planet across its parent.

In August 2008 more details of the relationship between the parent star and the orbit of the planet were published. The orbit was determined to be tilted by $-9 \pm 12^\circ$ from the stellar equator.

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NASA launched Kepler in March 2009. The spacecraft is dedicated to the discovery of extrasolar planets by the from . In April 2009 the project released the images from the spacecraft, and TrES-2b was one of two objects.

• NASA, 2009-04-16 • •

Could a planet exist in the cold & dark depths of our Solar System?

Indeed, several planets were later found orbiting that star at great distances. So a priori, it's possible a planet might exist in the cold, dark depths of our own solar system. It could even be quite large, the size of an ice giant like Neptune.

Why does a planet outside our Solar System look black?

NASA's Hubble Space Telescope has observed a planet outside our solar system that looks as black as fresh asphalt because it eats light rather than reflecting it back into space. This light-eating prowess is due to the planet's unique capability to trap at least 94 percent of the visible starlight falling into its atmosphere. The [.].

What are the different planets in the Solar System?



The planets of the solar system are varied in their appearance. Mercury is slate gray while Venus is pearly white, Earth a vibrant blue, and Mars a dusky red. Even the gas giants are different, Neptune and Uranus an opaque blue, while Jupiter and Saturn are mostly beige with brilliant red-brown belts. But why are these planets so different?

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Why is Jupiter so dark?

It is not clear why the planet is so dark. One reason could be an absence of reflective clouds such as those which make Jupiter so bright, due to TrES-2b's proximity to its parent star and the consequent high temperature.

Is HD 149026b the hottest planet in the universe?

Consequently, HD 149026b might be the blackest known planet in the Universe, in addition to the hottest. The temperature of this dark and balmy planet was taken with NASA's Spitzer Space Telescope. While the planet reflects no visible light, its heat causes it to radiate a little visible and a lot of infrared light.

Why does a Black Planet look like fresh asphalt?

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3 Most Important Theories to Explain How the Solar System ...



Our solar system is just another planetary system with planets orbiting it. Although our planetary system is the only one formally referred to as a "solar system," astronomers found over 3,200 other stars in our galaxy ...

What Are the Solar System Planets in Order? , HowStuffWorks

Over the past 60 years, humans have begun to explore our solar system in earnest. From the first launches in the late 1950s until today, we've sent probes, orbiters, landers, and even rovers (like NASA's Perseverance Rover that touched down on Mars in February 2021) to every planet in our solar system.



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How Big Are the Planets in Our Solar System? , STEM Activity

Digging Deeper Planets are celestial bodies that orbit (or circle around) a star. In our system, this star is the Sun. Planets are not self-luminous, they do not emit light like the stars, but they can be seen in the sky because they reflect light emitted by other celestial

In Depth , Neptune - NASA Solar System Exploration

Introduction Dark, cold, and whipped by supersonic winds, ice giant Neptune is the eighth and most distant planet in our solar system. More than 30 times as far from the Sun as Earth,



Neptune is the only planet in our solar system not visible to the naked eye. In

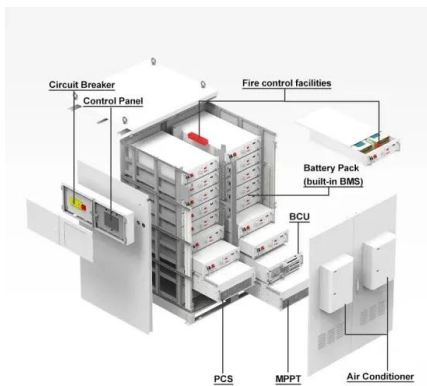


Our Sun: Facts

The Sun orbits the center of the Milky Way, bringing with it the planets, asteroids, comets, and other objects in our solar system. Our solar system is moving with an average velocity of 450,000 miles per hour (720,000 kilometers per hour). But even at this speed, it

What colors are the planets in our solar system? And ...

Mercury is slate gray while Venus is pearly white, Earth a vibrant blue, and Mars a dusky red. Even the gas giants are different, Neptune and Uranus an opaque blue, while Jupiter and Saturn are



[Life in Our Solar System? Meet the Neighbors](#)

Our solar system's majestic giants - Jupiter, Saturn, Uranus, Neptune - and their trains of moons might almost be considered solar systems in their own right. Some of these moons could well be habitable worlds; one of them, Titan, has a thick atmosphere, rain, rivers and lakes, though composed of methane and ethane instead of water.



What Are the Colors of the 8 Planets in Our Solar System?

Explore the fascinating hues of the 8 planets in our solar system, each painted by its unique composition. From the grey tones of terrestrial planets with oxidized minerals to the vibrant colors of gas giants, understanding planetary ...



All About Neptune , NASA Space Place - NASA Science for Kids

Current computer models predict that hot-Jupiter planets--gas giants that orbit very close to their stars--could be only as dark as Mercury, which reflects about 10 percent of the sunlight that



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- Intelligent Integration**
Integrated photovoltaic storage cabinet
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50-100kW
- Altitude**
3000m(>3000m derating)

Solar System Facts

Our solar system includes the Sun, eight planets, five officially named dwarf planets, and hundreds of moons, and thousands of asteroids and comets. Our solar system is located in the Milky Way, a barred spiral galaxy with two major ...



The Smallest Planet and Largest Planet in the Solar ...

The largest planet in our solar system by far is Jupiter, which beats out all the other planets in both mass and volume. Jupiter's mass is more than 300 times that of Earth, and its diameter, at 140,000 km, is about 11 times ...



Darkest Planet Found: Coal-Black, It Reflects Almost No Light

The Earth-orbiting Kepler spacecraft was specifically designed to find planets outside our solar system. But at such distances--TrES-2b, for instance, is 750 light-years from us--it's not as



Moons of Our Solar System

How Many Moons Are in Our Solar System? Naturally-formed bodies that orbit planets are called moons, or planetary satellites. The best-known planetary satellite is, of course, Earth's Moon. Since it was named before we learned ...



[DarkMatter inthe Solar System](#)

the distribution of dark matter within our own Solar Sys-tem. Yet, dark matter may prove to be profoundly impor-tant in our Solar System for both its additional gravita-tional effects on planets and other orbiting bodies [6, 7, 8] as well as the motions of spacecraft





Solar System , NASA Space Place - NASA Science for Kids

3 ???· Articles, games and activities about our planetary neighbors In July of 2015, a spacecraft named New Horizons arrived at Pluto after a long journey. It took amazing pictures of this dwarf planet and will continue to study other objects in the Kuiper Belt from 2018 to



In Depth , Pluto

Introduction Pluto is a complex and mysterious world with mountains, valleys, plains, craters, and maybe glaciers. Discovered in 1930, Pluto was long considered our solar system's ninth planet. But after the discovery of similar intriguing worlds deeper in the distant

Where Is Planet Nine? Its Hiding Places Are Running ...

So a priori, it's possible a planet might exist in the cold, dark depths of our own solar system. It could even be quite large, the size of an ice giant like Neptune. when the



In Depth , Jupiter - NASA Solar System Exploration

Jupiter is the fifth planet from our Sun and is, by far, the largest planet in the solar system - more than twice as massive as all the other planets combined. Jupiter's stripes and swirls are actually cold, windy clouds of ammonia and water, floating in an atmosphere of hydrogen and helium.



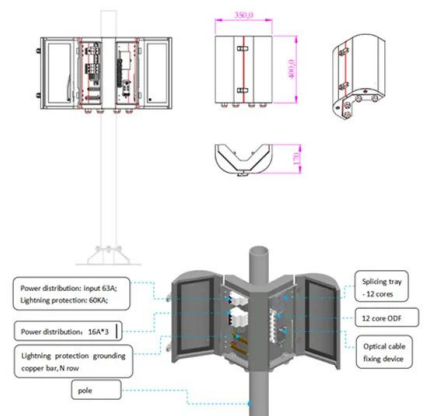
All About Neptune , NASA Space Place - NASA Science for Kids

Neptune is dark, cold, and very windy. It's the last of the planets in our solar system. It's more than 30 times as far from the sun as Earth is. Neptune is very similar to Uranus. It's made of a thick fog of water, ammonia, and methane over an Earth-sized solid center.



Neptune: A guide to the windy eighth planet from the sun

Our solar system's blue gas giant is far larger than Earth, at more than 17 times Earth's mass and nearly 58 times Earth's volume, according to NASA. Neptune's rocky core is



Caltech Researchers Find Evidence of a Real Ninth Planet

2 ???· In fact, it dominates a region larger than any of the other known planets--a fact that Brown says makes it "the most planet-y of the planets in the whole solar system." Batygin and Brown describe their work in the current issue of the Astronomical Journal and show how Planet Nine helps explain a number of mysterious features of the field of icy objects and debris ...



How Many Planets are in our Solar System? , Facts

Our planetary system is called the Solar System, referencing the name of our Sun, and it hosts eight planets. The eight planets in our Solar System, in order from the Sun, are the four terrestrial planets Mercury, Venus ...





NASA's Hubble captures blistering pitch-black planet

NASA's Hubble Space Telescope has observed a planet outside our solar system that looks as black as fresh asphalt because it eats light rather than reflecting it back ...



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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Neptune Facts

Dark, cold, and whipped by supersonic winds, ice giant Neptune is more than 30 times as far from the Sun as Earth. Neptune is the only planet in our solar system not visible to the naked eye. In 2011 Neptune completed its first 165-year orbit

...





What are the 9 Planets of the Solar System?

Jupiter is the largest of all the planets in the solar systems (142,980 kilometers in diameter) and more than 11 times wider than Planet Earth. Jupiter rotates around the sun once each 12 years. Despite its sheer size, Jupiter rotates on its axis pretty fast (in 9hrs and 19 min).



Planets of our Solar System

Learn about the different planets in our Solar System. Find out their size, temperature and distance from the Sun in this Scotland Second Level Science article. [BBC Homepage Skip to content](#)



Solar System

The orbits of Solar System planets are nearly circular. Compared to many other systems, they have smaller orbital eccentricity. [70] (dark blue) Some objects in the Solar System have a very large orbit, and therefore are much less affected by the known giant



How dark matter could be measured in the solar system

Now, a new study calculates how dark matter's gravity affects objects in our solar system, including spacecraft and distant comets also proposes a way that dark matter's influence could be



How dark matter could be measured in the solar system

chairs, and the Sun's gravity keeps our planet orbiting on a 365-day schedule. But the farther from the Sun a spacecraft flies force due to dark matter felt in our solar system as compared to



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