When On Earth

Earth

earth. By the period of Early Modern English, capitalization of nouns began to prevail, and the earth was also written the Earth, particularly when referenced - Earth is the third planet from the Sun and the only astronomical object known to harbor life. This is enabled by Earth being an ocean world, the only one in the Solar System sustaining liquid surface water. Almost all of Earth's water is contained in its global ocean, covering 70.8% of Earth's crust. The remaining 29.2% of Earth's crust is land, most of which is located in the form of continental landmasses within Earth's land hemisphere. Most of Earth's land is at least somewhat humid and covered by vegetation, while large ice sheets at Earth's polar polar deserts retain more water than Earth's groundwater, lakes, rivers, and atmospheric water combined. Earth's crust consists of slowly moving tectonic plates, which interact to produce mountain ranges, volcanoes, and earthquakes. Earth has a liquid outer core that generates a magnetosphere capable of deflecting most of the destructive solar winds and cosmic radiation.

Earth has a dynamic atmosphere, which sustains Earth's surface conditions and protects it from most meteoroids and UV-light at entry. It has a composition of primarily nitrogen and oxygen. Water vapor is widely present in the atmosphere, forming clouds that cover most of the planet. The water vapor acts as a greenhouse gas and, together with other greenhouse gases in the atmosphere, particularly carbon dioxide (CO_2), creates the conditions for both liquid surface water and water vapor to persist via the capturing of energy from the Sun's light. This process maintains the current average surface temperature of 14.76 °C (58.57 °F), at which water is liquid under normal atmospheric pressure. Differences in the amount of captured energy between geographic regions (as with the equatorial region receiving more sunlight than the polar regions) drive atmospheric and ocean currents, producing a global climate system with different climate regions, and a range of weather phenomena such as precipitation, allowing components such as carbon and nitrogen to cycle.

Earth is rounded into an ellipsoid with a circumference of about 40,000 kilometres (24,900 miles). It is the densest planet in the Solar System. Of the four rocky planets, it is the largest and most massive. Earth is about eight light-minutes (1 AU) away from the Sun and orbits it, taking a year (about 365.25 days) to complete one revolution. Earth rotates around its own axis in slightly less than a day (in about 23 hours and 56 minutes). Earth's axis of rotation is tilted with respect to the perpendicular to its orbital plane around the Sun, producing seasons. Earth is orbited by one permanent natural satellite, the Moon, which orbits Earth at 384,400 km (238,855 mi)—1.28 light seconds—and is roughly a quarter as wide as Earth. The Moon's gravity helps stabilize Earth's axis, causes tides and gradually slows Earth's rotation. Likewise Earth's gravitational pull has already made the Moon's rotation tidally locked, keeping the same near side facing Earth.

Earth, like most other bodies in the Solar System, formed about 4.5 billion years ago from gas and dust in the early Solar System. During the first billion years of Earth's history, the ocean formed and then life developed within it. Life spread globally and has been altering Earth's atmosphere and surface, leading to the Great Oxidation Event two billion years ago. Humans emerged 300,000 years ago in Africa and have spread across every continent on Earth. Humans depend on Earth's biosphere and natural resources for their survival, but have increasingly impacted the planet's environment. Humanity's current impact on Earth's climate and biosphere is unsustainable, threatening the livelihood of humans and many other forms of life, and causing widespread extinctions.

Alien: Earth

beings downloaded with human consciousness: Hybrids When the space vessel Maginot crash-lands on Earth, a young hybrid woman and a ragtag group of tactical - Alien: Earth is an American science fiction horror television series created by Noah Hawley. It is the first television series in the Alien franchise and is set two years before the events of the 1979 film Alien. The series stars Sydney Chandler, Alex Lawther, Essie Davis, Samuel Blenkin, Babou Ceesay, Adarsh Gourav, and Timothy Olyphant in main roles.

Development for the series was reported to have begun in early 2019, with Ridley Scott attached to executive produce for FX on Hulu. It had started pre-production by April 2023, with Chandler cast in the lead role the following month, and further casting taking place from July to November that year. After principal photography was delayed due to the COVID-19 pandemic, production began in July 2023 but was halted in August due to the 2023 SAG-AFTRA strike. Filming resumed in April 2024 and ended in July that year.

Alien: Earth premiered on FX and FX on Hulu in the United States and on Disney+ internationally on August 12, 2025.

Extremes on Earth

on Earth that hold geographical records or are otherwise known for their geophysical or meteorological superlatives. All of these locations are Earth-wide - This article lists extreme locations on Earth that hold geographical records or are otherwise known for their geophysical or meteorological superlatives. All of these locations are Earth-wide extremes; extremes of individual continents or countries are not listed.

Google Earth

Google Earth is a web and computer program created by Google that renders a 3D representation of Earth based primarily on satellite imagery. The program - Google Earth is a web and computer program created by Google that renders a 3D representation of Earth based primarily on satellite imagery. The program maps the Earth by superimposing satellite images, aerial photography, and GIS data onto a 3D globe, allowing users to see cities and landscapes from various angles. Users can explore the globe by entering addresses and coordinates, or by using a keyboard or mouse. The program can also be downloaded on a smartphone or tablet, using a touch screen or stylus to navigate. Users may use the program to add their own data using Keyhole Markup Language and upload them through various sources, such as forums or blogs. Google Earth is able to show various kinds of images overlaid on the surface of the Earth and is also a Web Map Service client. In 2019, Google revealed that Google Earth covers more than 97 percent of the world.

In addition to Earth navigation, Google Earth provides a series of other tools through the desktop application, including a measure distance tool. Additional globes for the Moon and Mars are available, as well as a tool for viewing the night sky. A flight simulator game is also included. Other features allow users to view photos from various places uploaded to Panoramio, information provided by Wikipedia on some locations, and Street View imagery. The web-based version of Google Earth also includes Voyager, a feature that periodically adds in-program tours, often presented by scientists and documentarians.

Google Earth has been viewed by some as a threat to privacy and national security, leading to the program being banned in multiple countries. Some countries have requested that certain areas be obscured in Google's satellite images, usually areas containing military facilities.

Highest temperature recorded on Earth

The highest temperature recorded on Earth has been measured in three major ways: air, ground, and via satellite observation. Air measurements are used - The highest temperature recorded on Earth has been measured in three major ways: air, ground, and via satellite observation. Air measurements are used as the standard measurement due to persistent issues with unreliable ground and satellite readings. Air measurements are noted by the World Meteorological Organization (WMO) and Guinness World Records among others as the standard to be used for determining the official record. The current official highest registered air temperature on Earth is 56.7 °C (134.1 °F), recorded on 10 July 1913 at Furnace Creek Ranch, in Death Valley, Eastern California in the United States. For a few years, a former record that was measured in Libya had been in place, until it was decertified in 2012 based on evidence that it was an erroneous reading. This finding has since raised questions about the legitimacy of the 1913 record measured in Death Valley, with several meteorological experts asserting that there were similar irregularities. The WMO has stood by the record as official pending any future investigative results. If the current record were to be decertified then the holder would be a tie at 54.0 °C (129.2 °F), recorded both at Furnace Creek, Kuwait and in Israel.

Flat Earth

Earth is an archaic and scientifically disproven conception of the Earth's shape as a plane or disk. Many ancient cultures subscribed to a flat-Earth - Flat Earth is an archaic and scientifically disproven conception of the Earth's shape as a plane or disk. Many ancient cultures subscribed to a flat-Earth cosmography. The model has undergone a recent resurgence as a conspiracy theory in the 21st century.

The idea of a spherical Earth appeared in ancient Greek philosophy with Pythagoras (6th century BC). However, the early Greek cosmological view of a flat Earth persisted among most pre-Socratics (6th–5th century BC). In the early 4th century BC, Plato wrote about a spherical Earth. By about 330 BC, his former student Aristotle had provided strong empirical evidence for a spherical Earth. Knowledge of the Earth's global shape gradually began to spread beyond the Hellenistic world. By the early period of the Christian Church, the spherical view was widely held, with some notable exceptions. In contrast, ancient Chinese scholars consistently describe the Earth as flat, and this perception remained unchanged until their encounters with Jesuit missionaries in the 17th century. Muslim scholars in early Islam maintained that the Earth is flat. However, since the 9th century, Muslim scholars have tended to believe in a spherical Earth.

It is a historical myth that medieval Europeans generally thought the Earth was flat. This myth was created in the 17th century by Protestants to argue against Catholic teachings, and gained currency in the 19th century.

Despite the scientific facts and obvious effects of Earth's sphericity, pseudoscientific flat-Earth conspiracy theories persist. Since the 2010s, belief in a flat Earth has increased, both as membership of modern flat Earth societies, and as unaffiliated individuals using social media. In a 2018 study reported on by Scientific American, only 82% of 18- to 24-year-old American respondents agreed with the statement "I have always believed the world is round". However, a firm belief in a flat Earth is rare, with less than 2% acceptance in all age groups.

Hemispheres of Earth

or culturally, or based on religion or prominent geographic features. Use of these divisions is applied when studying Earth's geographic distribution - In geography and cartography, hemispheres of Earth are any division of the globe into two equal halves (hemispheres), typically divided into northern and southern halves by the Equator and into western and eastern halves by the Prime meridian. Hemispheres can be divided geographically or culturally, or based on religion or prominent geographic features. Use of these divisions is applied when studying Earth's geographic distribution, cultural differences, and other geographic, demographic and socioeconomic features.

When Dinosaurs Ruled the Earth

When Dinosaurs Ruled the Earth (titled When Dinosaurs Ruled the World in the U.K.) is a 1970 British fantasy film from Hammer Films, written and directed - When Dinosaurs Ruled the Earth (titled When Dinosaurs Ruled the World in the U.K.) is a 1970 British fantasy film from Hammer Films, written and directed by Val Guest, and starring Victoria Vetri. It was produced by Aida Young. This was the third in Hammer's "Cave Girl" series, preceded by One Million Years B.C. (1966) and Prehistoric Women (1967); it was followed by Creatures the World Forgot (1971).

Moon

Moon is Earth's only natural satellite. It orbits around Earth at an average distance of 384,399 kilometres (238,854 mi), about 30 times Earth's diameter - The Moon is Earth's only natural satellite. It orbits around Earth at an average distance of 384,399 kilometres (238,854 mi), about 30 times Earth's diameter, and completes an orbit (lunar month) every 29.5 days. This is the same length it takes the Moon to complete a rotation (lunar day). The rotation period is forced into synchronization with the orbital period by Earth's gravity pulling the same side of the Moon to always face Earth, making it tidally locked. On Earth the gravitational pull of the Moon produces tidal forces, which are the main driver of Earth's tides.

In geophysical terms, the Moon is a planetary-mass object or satellite planet. Its mass is 1.2% that of the Earth, and its diameter is 3,474 km (2,159 mi), roughly one-quarter of Earth's (about as wide as the contiguous United States). Within the Solar System, it is larger and more massive than any known dwarf planet, and the fifth-largest and fifth-most massive moon, as well as the largest and most massive in relation to its parent planet. Its surface gravity is about one-sixth of Earth's, about half that of Mars, and the second-highest among all moons in the Solar System after Jupiter's moon Io. The body of the Moon is differentiated and terrestrial, with only a minuscule hydrosphere, atmosphere, and magnetic field. The lunar surface is covered in regolith dust, which mainly consists of the fine material ejected from the lunar crust by impact events. The lunar crust is marked by impact craters, with some younger ones featuring bright ray-like streaks. The Moon was until 1.2 billion years ago volcanically active, filling mostly on the thinner near side of the Moon ancient craters with lava, which through cooling formed the prominently visible dark plains of basalt called maria ('seas'). 4.51 billion years ago, not long after Earth's formation, the Moon formed out of the debris from a giant impact between Earth and a hypothesized Mars-sized body named Theia.

From a distance, the day and night phases of the lunar day are visible as the lunar phases, and when the Moon passes through Earth's shadow a lunar eclipse is observable. The Moon's apparent size in Earth's sky is about the same as that of the Sun, which causes it to cover the Sun completely during a total solar eclipse. The Moon is the brightest celestial object in Earth's night sky because of its large apparent size, while the reflectance (albedo) of its surface is comparable to that of asphalt. About 59% of the surface of the Moon is visible from Earth owing to the different angles at which the Moon can appear in Earth's sky (libration), making parts of the far side of the Moon visible.

The Moon has been an important source of inspiration and knowledge in human history, having been crucial to cosmography, mythology, religion, art, time keeping, natural science and spaceflight. The first human-made objects to fly to an extraterrestrial body were sent to the Moon, starting in 1959 with the flyby of the Soviet Union's Luna 1 probe and the intentional impact of Luna 2. In 1966, the first soft landing (by Luna 9) and orbital insertion (by Luna 10) followed. Humans arrived for the first time at the Moon, or any extraterrestrial body, in orbit on December 24, 1968, with Apollo 8 of the United States, and on the surface at Mare Tranquillitatis on July 20, 1969, with the lander Eagle of Apollo 11. By 1972, six Apollo missions had landed twelve humans on the Moon and stayed up to three days. Renewed robotic exploration of the Moon, in particular to confirm the presence of water on the Moon, has fueled plans to return humans to the Moon, starting with the Artemis program in the late 2020s.

scientific data that puts the age of Earth around 4.54 billion years. In its most widespread version, YEC is based on a religious belief in the inerrancy - Young Earth creationism (YEC) is a form of creationism that holds as a central tenet that the Earth and its lifeforms were created by supernatural acts of the Abrahamic God between about 10,000 and 6,000 years ago, contradicting established scientific data that puts the age of Earth around 4.54 billion years. In its most widespread version, YEC is based on a religious belief in the inerrancy of certain literal interpretations of the Book of Genesis. Its primary adherents are Christians and Jews who believe that God created the Earth in six literal days, as stated in Genesis 1.

This is in contrast with old Earth creationism (OEC), which holds that literal interpretations of Genesis are compatible with the scientifically determined ages of the Earth and universe, and theistic evolution, which posits that the scientific principles of evolution, the Big Bang, abiogenesis, solar nebular theory, age of the universe, and age of Earth are compatible with a metaphorical interpretation of the Genesis creation account.

Since the mid-20th century, young Earth creationists—starting with Henry Morris (1918–2006)—have developed and promoted a pseudoscientific explanation called creation science as a basis for a religious belief in a supernatural, geologically recent creation, in response to the scientific acceptance of Charles Darwin's theory of evolution, which was developed over the previous century. Contemporary YEC movements arose in protest to the scientific consensus, established by numerous scientific disciplines, which demonstrates that the age of the universe is around 13.8 billion years, the formation of the Earth and Solar System happened around 4.6 billion years ago, and the origin of life occurred roughly 4 billion years ago.

A 2017 Gallup creationism survey found that 38 percent of adults in the United States held the view that "God created humans in their present form at some time within the last 10,000 years or so" when asked for their views on the origin and development of human beings, which Gallup noted was the lowest level in 35 years. It was suggested that the level of support could be lower when poll results are adjusted after comparison with other polls with questions that more specifically account for uncertainty and ambivalence. Gallup found that, when asking a similar question in 2019, 40 percent of US adults held the view that "God created [human beings] in their present form within roughly the past 10,000 years."

Among the biggest young Earth creationist organizations are Answers in Genesis, Institute for Creation Research and Creation Ministries International.