

# Map of the sun





## Overview

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What coordinate system does the Sun use?

By default, position of the sun is expressed in terms of horizontal coordinate system. Users may select equatorial coordinate system or ecliptic coordinate system to show the sun's position relative to the mass centre of the earth. The thick yellow line represents the sun path of the day with blue dots marking the clock hours.

Which coordinate system shows the sun's position relative to the Mass centre?

Users may select equatorial coordinate system or ecliptic coordinate system to show the sun's position relative to the mass centre of the earth. The thick yellow line represents the sun path of the day with blue dots marking the clock hours. Sun's position of the specified time is marked with red dot.

What is the day and night world map?

The Day and Night World Map shows the Sun's current position and where it is night and day throughout the world at that point of time.

How do you plot a sun path chart?

Sun path charts can be plotted either in Cartesian (rectangular) or Polar coordinates. Cartesian coordinates where the solar elevation is plotted on Y axis and the azimuth is plotted on the X axis.

What is the ground speed of the Sun?

The ground speed is currently 459.62 meters/second, 1654.6 kilometres/hour, 1028.1 miles/hour or 893.4 nautical miles/hour (knots). The table below shows position of the the Sun compared to the time and date above: On Saturday, October 12, 2024 at 20:24:00 UTC the Moon is at its zenith at Latitude: 19° 56' South, Longitude: 8° 08' West



## Map of the sun



### Day and Night World Map

The Day and Night World Map shows the Sun's current position and where it is night and day throughout the world at that point of time. Position of the Moon: Sublunar Point On Wednesday, October 16, 2024 at 08:18:00 UTC the Moon is at its zenith at Latitude: 2

### Earthside View

The farside solar map shows approximate locations of regions on the far side of the Sun (assuming a uniform solar rotation rate). Meridian lines show days until the region might possibly re-appear on the Earth side view of the Sun.



### [NASA SVS , Full Map of the Sun's Surface](#)

Full Map of the Sun's Surface. Released Tuesday, October 22, 2013. ID: 30362. View full credits. This movie shows the evolution of the Sun's entire surface as seen in ...

## 15.1: The Structure and Composition of the Sun

Table (PageIndex{1}) Characteristics of the Sun  
Characteristic How Found Value Mean distance  
Radar reflection from planets 1 AU (149,597,892 km)  
Maximum distance from Earth  $1.521 \times 10^8$  km  
Minimum distance from Earth  $1.471 \times 10^8$  km



km Mass Orbit of



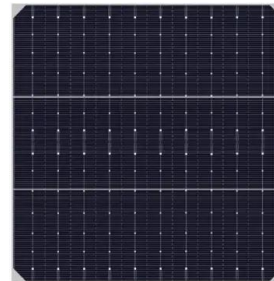
[SunMoonTrack , real time sun & moon tracking](#)

The map shows day and night on Earth and the positions of the Sun (subsolar point) and the Moon (sublunar point) right now. to set the observer location, please click on the map



[Sons of The Forest Map , Map Genie](#)

Sons of The Forest Interactive Map - Find all Points of Interest, Collectibles, Caves, GPS Locators, Items, Resources & caves! Add your own notes to keep track of progress! Embed this map on your own website by copying the code ...



**Solar System Scope**

Online 3D simulation of the Solar System and night sky in real-time - the Sun, planets, dwarf planets, comets, stars and constellations Contact us: [contact@solarsystemscope](mailto:contact@solarsystemscope) Facebook Newsletter Embed Account SolarSystemScope 5-in-1 Bundle



### The Solar System to Scale: Dynamic 2D Model

1 pixel = 1,000 km. This 2D visual model illustrates the scale of the sun and planets in our solar system, and their current distance from each other. The Solar System to Scale in which every pixel on the screen represents 1,000 kilometers.

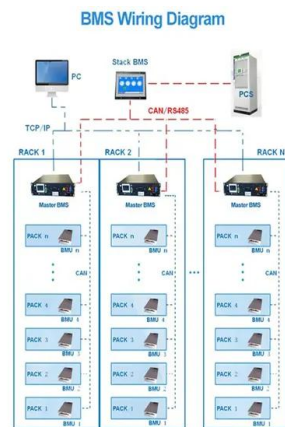


### Daylight Map

2 ???· How does this map work? A picture of the Sun's zenith position, measured from the observer's vantage point (zenith). As seen from the perspective of an observer, the position of the moon is at its zenith. The time on the map is in the UTC Time Zone. The moon

### Global Solar Atlas

The Global Solar Atlas provides a summary of solar power potential and solar resources globally. It is provided by the World Bank Group as a free service to governments, developers and the general public, and allows users to quickly obtain data and carry out a



### Solar System Map

Solar System Map The diagram above shows all the planets and dwarf planets (and also the moon and the asteroid belt) in order from the sun. It also includes information on the diameter, mass and orbital period of each body and also a ...



### Calculation of sun's position in the sky for each location on the

Sun Position Calculation of sun's position in the sky for each location on the earth at any time of day. Azimuth, sunrise sunset noon, daylight and graphs of the solar path. Sunrise and sunset are defined as the instant when the upper limb of the Sun's disk is just touching the horizon, this corresponds to an altitude of -0.833 degrees for the Sun.



### 2024 Solar Eclipse Map: Path of Totality and More

Maps of the April 2024 Total Solar Eclipse By Jonathan Corum Updated April 5, 2024 On April 8, the moon will slip between the Earth and the sun, casting a shadow across a swath of North America: a

### Plot the sun's position

Plot the sun's angle position on the horizon for any location in the United States Welcome to the new site! This web site was totally rebuilt using up-to-date technology in May 2014. The new site name is SunPlots , and requests to the original site SolarPlots



### Day and Night World Map

The Day and Night World Map shows the Sun's current position and where it is night and day throughout the world at that point of time. Location Local Time Distance Direction Lubango Sat 12:00 noon 367 km 228 miles 198 nm SE ...



[Online Star Maps: The Sun , TheSkyLive](#)

The Sun Set Location Please set your location so we can show precisely what's visible in your night sky. Without your location, we will use Greenwich as a default, but visibility information and star map automatic orientation might be off. Autodetect Location



**Where's the Sun**

About WheresTheSun is a graphical solar position calculator - use WheresTheSun to see the position of the sun at any time and date in any part of the world. Use the Locate controls to find places on the map. Use the calendar control and time slider to specify a date and time.

[Interactive 3D Map of the Universe](#)

The Sun is at the large orange dot at the center of this three-dimensional atlas of the Universe. Initially, the local stars around the Sun are shown, color coded depending whether they are cool red stars or hot blue ones.



**Day and Night World Map**

The map shows day and night on Earth and the positions of the Sun (subsolar point) and the Moon (sublunar point) right now. Map. Satellite. UTC time = Saturday, October 26, 2024 at 11:00:00.



### Eclipse Map

Explore the path of totality of the April 8, 2024 total solar eclipse in this interactive google map. Eclipses are among the most awesome sights known to humans. During a total solar eclipse, scientists see a part of the Sun's outer atmosphere, called the corona, that



### The Sun , TheSkyLive

Sky map showing The Sun in Libra on November, 06 2024. Field of view: 10x6 degrees. View in interactive sky chart High precision deep sky finder chart, 60 arcmin wide, showing where The Sun is right now. Click on the image to see a more detailed . Sun

### World Sunlight Map

World Sunlight Map. Watch the sun rise and set all over the world on this real-time, computer-generated illustration of the earth's patterns of sunlight and darkness. The clouds are updated ...



### Sun Direction: orientation of the sun throughout the day

Sun paths at any latitude and any time of the year can be determined from basic geometry. The Earth's axis of rotation tilts about 23.5 degrees, relative to the plane of Earth's orbit around the Sun. As the Earth orbits the Sun, this creates the 47 declination



### [Sunrise and Sunset Times in United States](#)

Sunrise and Sunset Times in United States Home > United States Sun up, sun down, we've got the lowdown on United States's skies! Get accurate sunrise and sunset times across United States, with precise timing for every location, from the bustling streets of New York City to the serene beaches of California, from the majestic Grand Canyon in Arizona to the historic ...



### **Calculation of sun's position in the sky for each location on the**

Calculation of sun's position in the sky for each location on the earth at any time of day. Azimuth, sunrise sunset noon, daylight and graphs of the solar path.

### [Map shows US election results LIVE](#)

2 ???· The Sun's interactive map shows the US presidential election results as they happen, with our readers able to check which states are turning red or blue. 4 Donald Trump is looking to return to the White House after losing out to ...



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